HIGHLINER 3

Installation Guide for 701912-QQYYC3I18

General Information:

HighLINER 3 is intended for linear lighting in storerooms, walk-in coolers, indoor and outdoor soffits, outdoor canopies, car washes, and a variety of other lighting applications. Do not mount completely or partially submerged in water. HighLINER 3 luminaires should only be used with 100 Watt 24 VDC Power Supply. To clean HighLINER 3 luminaire use a damp cloth and mild cleaning agent only.

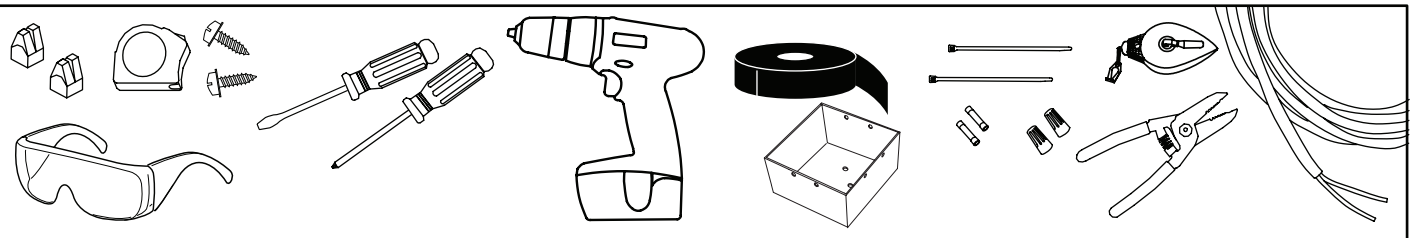
FOR YOUR SAFETY

- Read and observe all NOTES, CAUTIONS, and WARNINGS shown throughout these instructions
- Installation of power supplies to be performed by licensed electrician only
- Safety glasses or goggles should be worn while performing installation
- This product is UL and ETL listed for dry, damp, and wet locations
- **Electrical Specifications: Maximum 0.185 A per foot of nominal luminaire length, 24 VDC, Class 2 circuit**
- Install to national, local, and state regulations

POUR VOTRE SÉCURITÉ

- Lire et observer toutes les NOTES, MISES EN GARDE et AVERTISSEMENTS montré tout au long de ces instructions
- L'installation des alimentations doit être effectuée par électricien agréé
- Il faut porter des lunettes de sécurité ou des lunettes à coques lors de l'installation
- Ce produit est homologué UL et ETL pour les environnements sec, humide, et endroits humides
- **Spécifications électriques: 0.185 A maximum par pied de longueur nominale du luminaire, 24 V CC, circuit de classe 2**
- Installer conformément aux réglementations nationales, locales et nationales

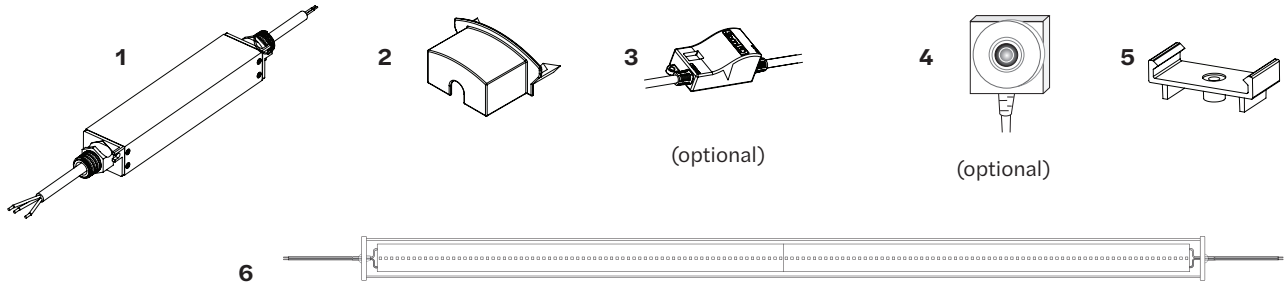
Tools and Accessories Recommended



Tools and connections shown are for secondary connections: Safety glasses, flat and Phillips head screwdrivers, screws, drill, measuring tape, electrical tape, wire strippers, twist-on or push-in UL Listed wire connectors, tie-wraps, chalk line, junction-box, and 18 AWG UL Listed PLTC cable.

Items Provided

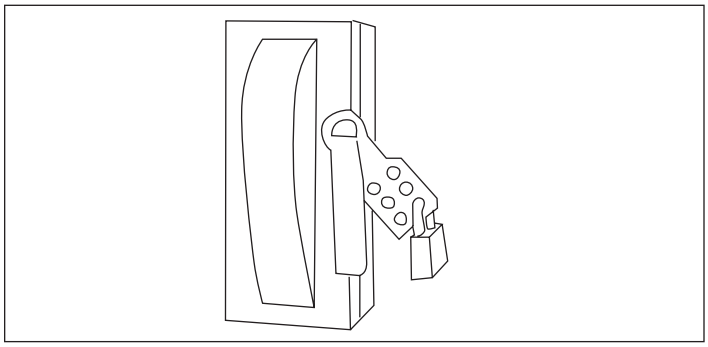
1. Power Supply **2.** Wire Nut Housing **3.** Dimming Controller **4.** Motion Sensor **5.** Mounting Clip **6.** HighLINER 3 (2', 4', 6', or 8')

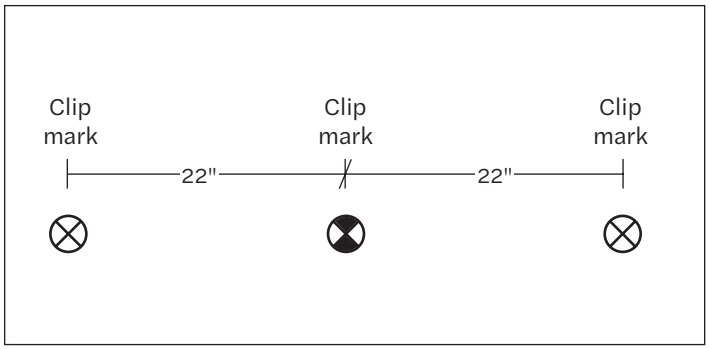


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Preparation for Installation



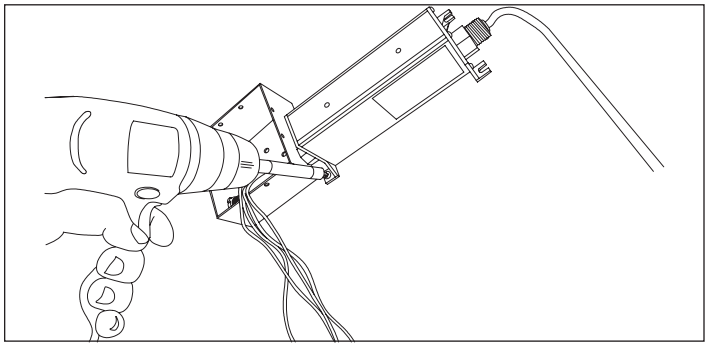


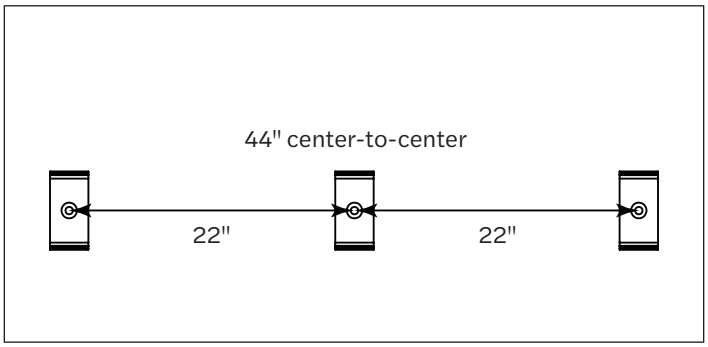
WARNING: Risk of electrical shock. AVERTISSEMENT: Risque de choc électrique. Locate main circuit breaker panel, de-energize, and perform lockout/tagout prior to installing light fixtures. All primary wiring must be done by a licensed electrician.

Mark clip locations: Snap a chalk line on surface. Measure 22" uniform spacing along specific luminaire length (4-ft luminaire clip positions shown). Principal Sloan recommends two (2) clips for the 2-ft luminaire, three (3) clips for the 4-ft luminaire, four (4) clips for the 6-ft luminaire, and five (5) clips for the 8-ft luminaire.

CAUTION: Power supplies should not be mounted near any other heat generating element. Mount power supply with two self drilling/self tapping screws through tabs in both end caps. **ATTENTION:** Les blocs d'alimentation ne doivent pas être montés à proximité d'un autre élément générateur de chaleur. Montez l'alimentation avec deux vis autoperceuses / autotaraudeuses dans les languettes des deux embouts.

Installation





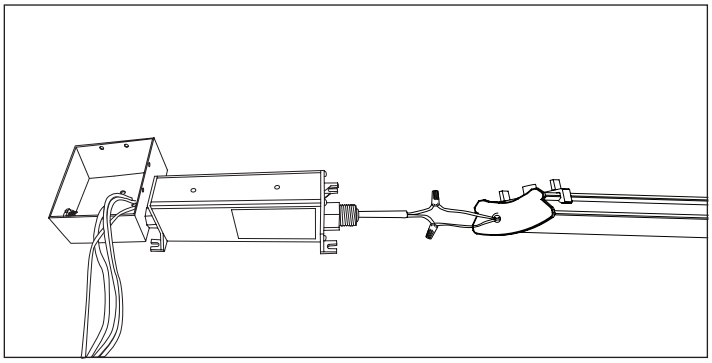
1. **Install junction box and power supply:**
   Follow power supply instructions for installing secondary side. Use UL listed twist-on, push-in, wire connectors for connections. Follow connector manufacturer's instructions. Follow connector manufacturer's instructions. If driver requires an enclosure, use a UL Listed Damp Location enclosure of 4.63" x 8.38" x 10.25" (=397 in^3 volume), or larger.

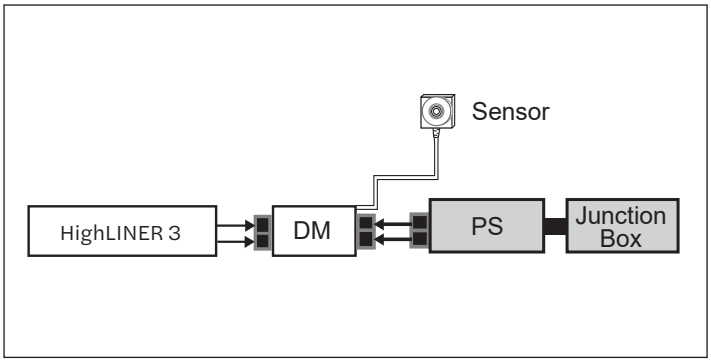
2. **Attach mounting clips:** 4-ft luminaire clip positions shown. Principal Sloan recommends two (2) clips for the 2-ft luminaire, three (3) clips for the 4-ft luminaire, four (4) clips for the 6-ft luminaire, and five (5) clips for the 8-ft luminaire. Use screw of appropriate length and thread type for mounting surface, #8 or #10, pan or hex head screws. Stainless steel screws are recommended.

CAUTION: All primary connections including grounding must comply with national, local, and state regulations. Have a licensed electrician connect primary wires. **ATTENTION:** toutes les connexions principales, y compris la mise à la terre, doivent être conformes aux réglementations nationales, locales et nationales. Faites appel à un électricien agréé pour connecter les câbles primaires.

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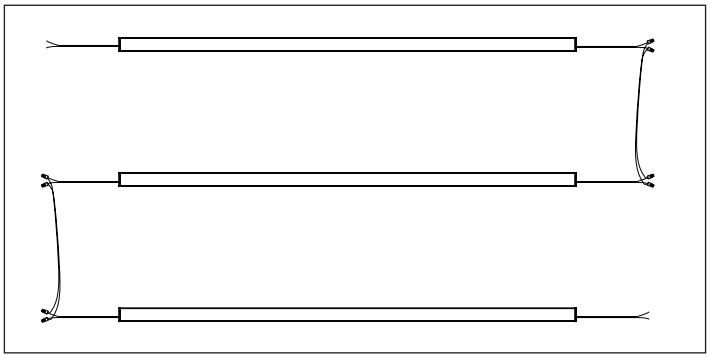


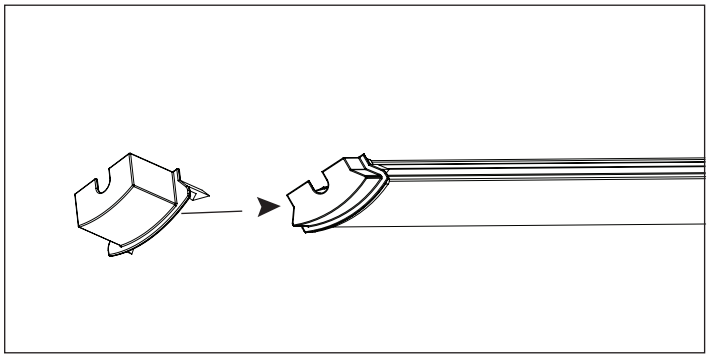
3. **Install luminaire:** Snap luminaire into mounting clips. Attach wires to power supply using UL Listed twist-on or push-in wire connectors or equivalent. If mounted outdoors or exposed to moisture, ensure all wire connections are waterproof.

   NOTE: If multiple luminaires are being attached to same power supply, refer to Step 5 for daisy chain instructions.

4. **Install Dimming Controller and Motion Sensor (optional):** Connect Dimming Controller to secondary side of power supply. Ensure Motion Sensor is aimed at primary task area. Cat 5 cable may be concealed as required.

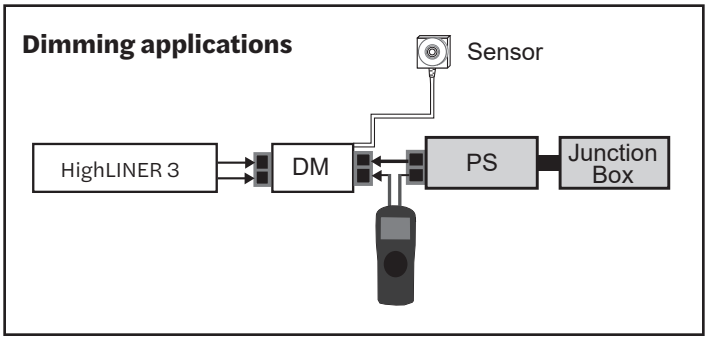
WARNING: Check polarity. All luminaire to luminaire connections must be WHITE/RED-TO-WHITE/RED (+) and WHITE-TO-WHITE (-). Connect power supply RED (+) wire to luminaire WHITE/RED (+). Connect power supply BLACK (-) wire to luminaire WHITE (-) wire. Reverse polarity connections may damage LEDs and will void product warranty.
AVERTISSEMENT: Vérifiez la polarité. Toutes les connexions du luminaire au luminaire doivent être BLANC / ROUGE À BLANC / ROUGE (+) et BLANC À BLANC (-). Connectez le câble d'alimentation ROUGE (+) au luminaire BLANC / ROUGE (+). Connectez le fil NOIR (-) de l'alimentation au fil BLANC (-) du luminaire. Les connexions à polarité inversée peuvent endommager les LED et annuler la garantie du produit.

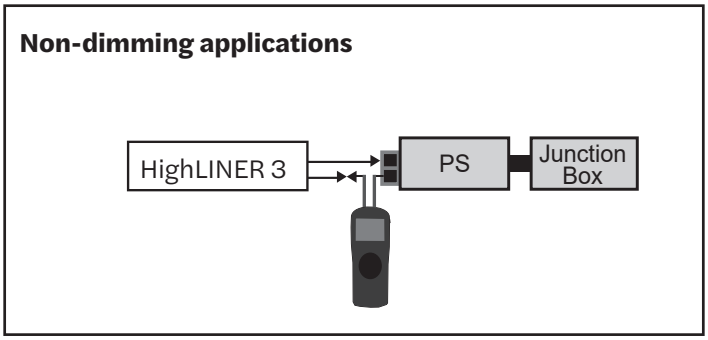




5. **Daisy chain as required:** Up to six (6) luminaires can be attached to a single power supply. Multiple luminaires can be connected at same locations using 18 AWG UL Listed PLTC cable and UL Listed twist-on or push-in or equivalent wire connector. Length will be determined by luminaire placement.

6. **Wire Nut Housing:** Conceal twist-on wire connectors using provided Wire Nut Housing. When properly installed, Wire Nut Housing sits flush with profile of luminaire.

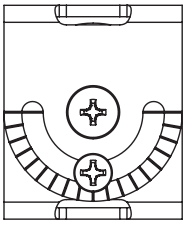


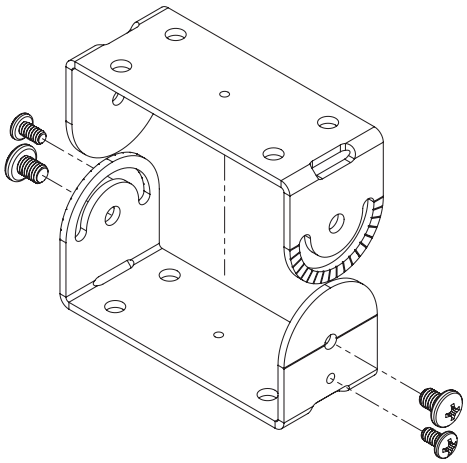


7. **Turn on system**: Re-energize power circuit after installation is complete. Check secondary current of each power supply to ensure it is not overloaded per rating on label.

Adjustable Hinge

1. Remove assembled hinge from packaging.
2. Loosen, but do not remove the four (4) Philips head screws to allow hinge to freely rotate.
3. Secure one side of hinge with customer supplied fasteners to mounting surface through clearance holes provided or drill fastener holes at installation. This side is now the fixed side.
4. Secure luminaire mounting means to free side of hinge using hole(s) provided or drill fastener holes at assembly.
5. Secure luminaire to mounting means on free side of hinge.
6. Rotate hinge to desired position, noting the 10 increments between alignment marks on outer side of circular slot.
7. Tighten large Philips screws to ~10 in-lbf and small Philips screws to ~7 in-lbf.





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HighLINER

24 VDC power supply capacity table for HighLINER 3*

Input						Output		
		Input current						
Power output	Nominal input voltage	2'	4'	6'	8'	Power output	Output current	Maximum number luminaires
60 W	100-277 VAC, 50-60 Hz	0.091 A max.	0.182 A max.	0.273 A max.	0.364 A max.	60 W	2.5 A	14' in any combination
100 W	100-277 VAC, 50-60 Hz	0.091 A max.	0.182 A max.	0.273 A max.	0.364 A max.	100 W	4.2 A	24' in any combination

NOTE: Do not combine power supply outputs. Each 24 V circuit must be limited to power supply output rating. For North American installations, a power supply that meets NEC Class 2 specifications is required.

* Principal Sloan 100 W 24 VDC power supplies (P/N: 701895-24S2D or 701895-60S1D) must be used in order to qualify for DLC rebate.

Dimming Controller settings

Switches 1 and 2 adjust brightness level
Switches 3 and 4 adjust dim mode brightness

Switch 1	Switch 2	Brightness level	Switch 3	Switch 4	Percent of full brightness
Off	Off	NA	Off	Off	0.0%
On	Off	Energy Saver	On	Off	12.5%
Off	On	Standard	Off	On	25.0%
On	On	MerchandiserMax	On	On	50.0%

Troubleshooting

Luminaire won't turn on.	1. Most likely a connector or connection problem. Check connections and voltage at connector. It could be a loose connection, wire, or connector. 2. Ensure lockout/tagout removed and main circuit breaker energized. 3. Ensure all connections are secure and no shorts to ground. 4. Verify proper operation of power supply with multi-meter. Me asure power supply output 24 +/- 10% VDC and if 24 VDC present, replace luminaire. 5. If no output voltage, have certified electrician measure input voltage to power supply 90-240 VAC. If voltage present within range, replace power supply. 6. Check to ensure total number of lights does not exceed power supply capacity. If proper number of lights per power supply, ensure proper wire sizing for minimal voltage drop based on length of wire run.

Customer service and technical support
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