

General Installation Instructions

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION**

⚠ WARNING

To reduce the risk of death, injury or property damage from fire, electric shock, cuts, abrasions, falling parts, and other hazards:

- Service of the equipment must be performed by qualified service personnel.
- Installation and maintenance must be performed by a person familiar with the construction and operation of this product and any hazards involved. All applicable codes and ordinances must be followed.
- Read this document before installing, servicing, or maintaining this equipment or installing a lamp. These instructions do not cover all installation, service, and maintenance situations. If your situation is not covered, or if you do not understand these instructions or additional information is required, contact Peerless Lighting or your local Peerless Lighting Distributor.
- Read and follow all warnings and instructions provided by the lamp manufacturer.

⚠ WARNING

Before installing, servicing, or maintaining this equipment, follow these general precautions. To reduce the risk of electrocution:

- Make sure the equipment is properly grounded.
- Always de-energize the circuit and/or equipment before connecting to, disconnecting from, or servicing the equipment.

To prevent fixture row from over-current:

- By adding the input current of each fixture section marked on the fixture, the total current per power feed must not exceed the maximum line wire amperage marked on the fixture and the power feed cord/wire amperage rating whichever the least.

To reduce the risk of fire:

- Keep material away that can burn from hot lamp.
- Make sure lamps are correctly installed.
- Use supply conductors with a minimum installation temperature rating as specified on equipment.

To reduce the risk of personal injury from cuts, abrasions, or falling parts:

- Wear gloves to prevent cuts or abrasions from sharp edges when removing from carton, handling and maintaining this equipment.
- Do not use abrasive materials, glass cleaners or other solvents on reflector or lens. These substances may damage equipment and cause parts to eventually break and fall.
- Do not install a damaged fixture.

⚠ CAUTION

Observe lamp manufacturer's recommendations and restrictions on lamp operation, including but not limited to ballast type, burning position, replacement and cycling. Use only lamps that comply with applicable ANSI standards.

NOTICE: If lamp is marked (Hg) it contains mercury. Follow disposal laws. See www.lamprecycle.org

Peerless Lighting, a division of Acuity Brands Lighting, Inc., assumes no responsibility for claims arising out of improper or careless installation or handling of this product.

SAVE THESE INSTALLATION INSTRUCTIONS

Part Number: PIN004100 Revision: C Effective Date: 12/20/2010 ECO3618

Lightline Direct Pendant & Surface Mount Installation Instructions

PIN003800 Rev. C 9/10 ECO3595

LLM

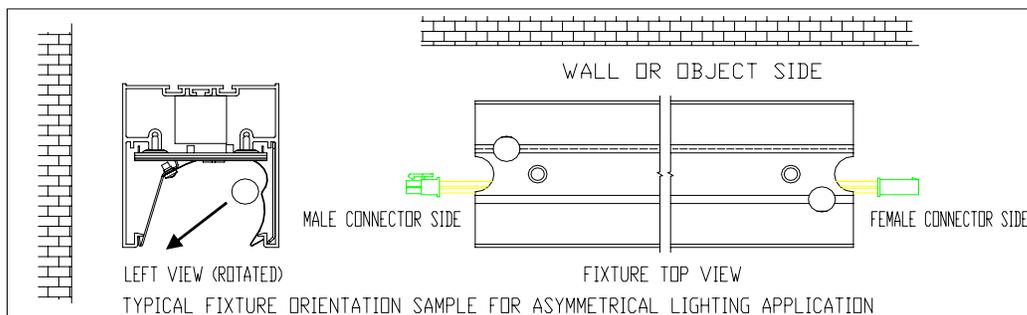
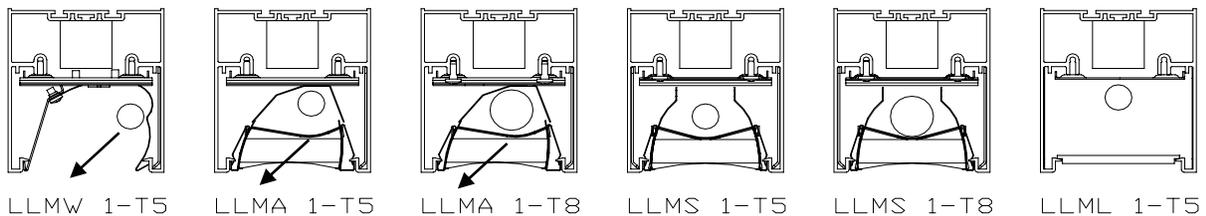
These installation instructions are used for installing the following fixtures and kits:

Fixture			Endcap Kit	Configuration Kit		
LLMW, LLMA, LLMS, LLMW S, LLMA S, LLMS S, LLML	LLMEP, LLMSEP, LLMLEP, LLMLSEP	LLM TNN, LLM CNR, LLM CNRT, LLM CNRX	LLMW, LLMA, LLMS, LLMW S, LLMA S, LLMS S, LLML	LLMEP, LLMSEP, LLMLEP, LLMLSEP	LLM TNN, LLM CNR, LLM CNRT, LLM CNRX	

WARNING: Please read the “important safety instructions” prior to installation of this product.

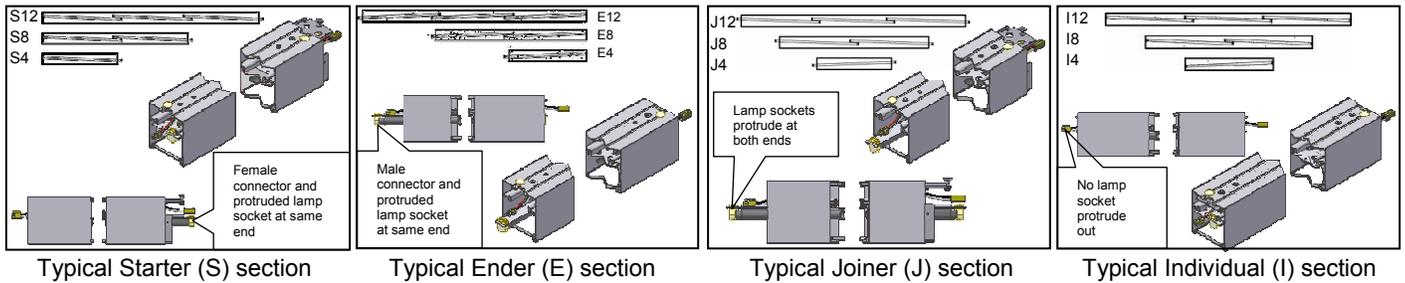
A) Identification of LLML Fixture Sections	page 1
B) Cable Mounting Fixture Run Installation	page 2-5
C) Stem Mounting Fixture Run Installation	page 5-8
D) Surface Mounting Fixture Run Installation	page 9-10

Fixture Cross Section and Orientation Summary



A) Identification of LLML Fixture Sections

The four categories of section types, regardless of length, can be distinguished by the hanger type and orientation, the socket holder type, the orientation of Molex connectors, and light shield locations. The type of each section is also indicated on the sticker on the exterior of the box in which the section is shipped.

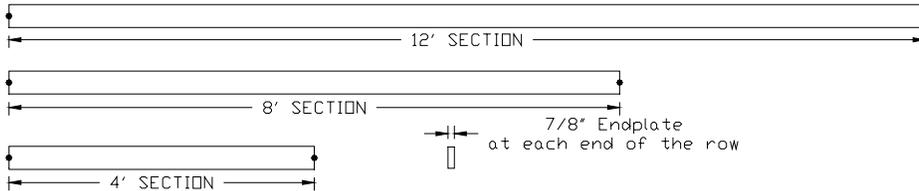


B) Cable Mounting Fixture Run Installation

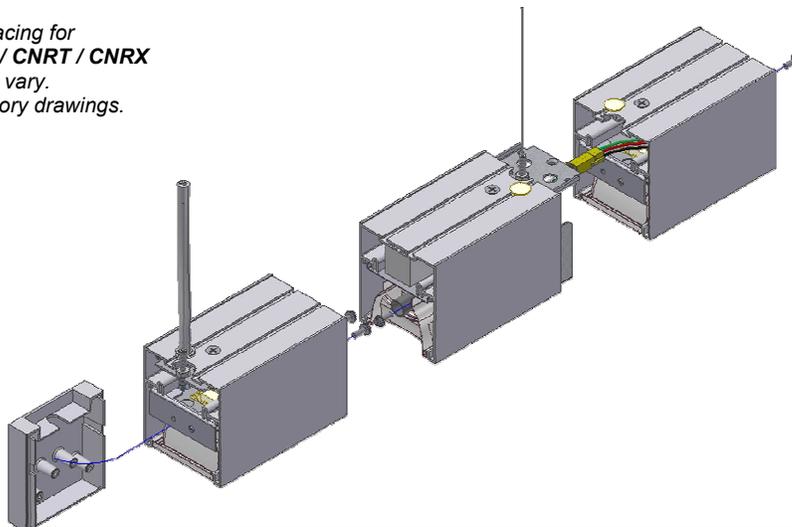
FOR LLMW, LLMA, LLMS:

* SUPPORT SPACING ARE 4', 8', AND 12'.

KEY ● SUPPORT OR FEED LOCATION

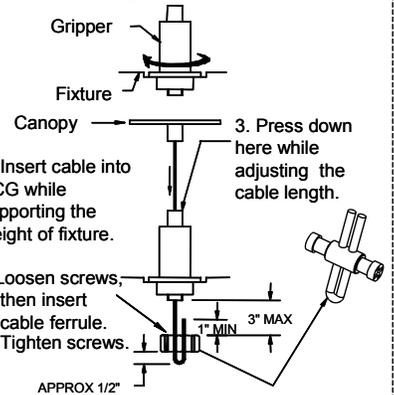


Support Spacing for
TNN / CNR / CNRT / CNRX
applications vary.
Consult factory drawings.

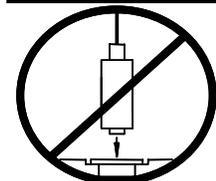


Adjustable Cable Option

1. Attach adjustable cable gripper (ACG) to fixture and tighten securely.

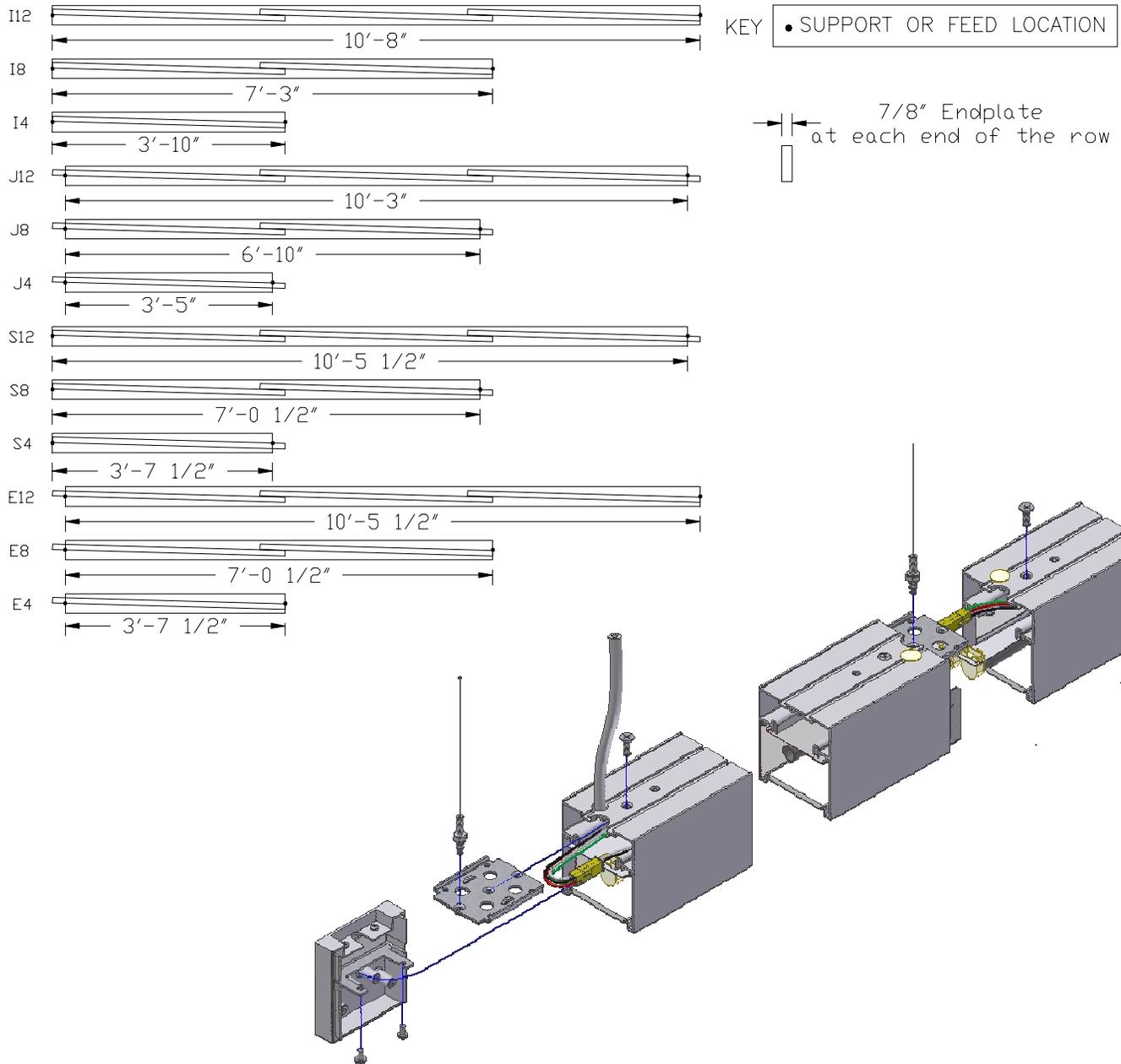


IMPORTANT

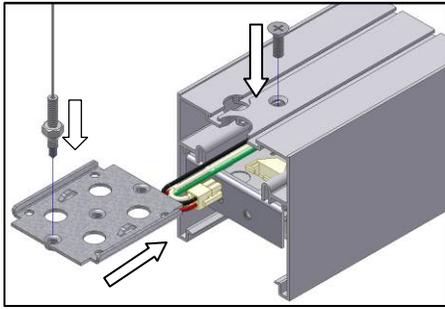


Do NOT insert cable into ACG prior to ACG being attached to fixture. Twisting the cable could cause gripper to become loose.

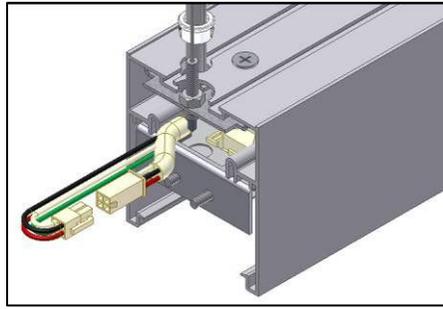
B) Cable Mounting Fixture Run Installation FOR LLML:



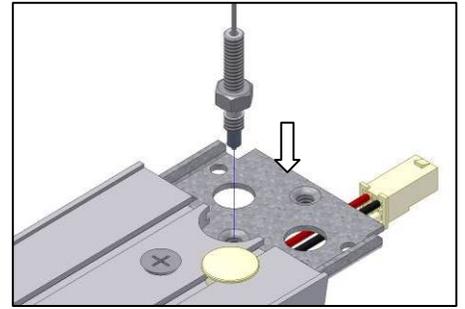
Mounting Kit Accessories		
Used On	Kit Name (Accessories)	
	Fixed Cable	Adjustable cable
Support location at normal power feed	LLMFK	ACGPFK
Support location at emergency power feed	LLMEK	ACGPEK
Support location without power feed	LLMSK	ACGPSK



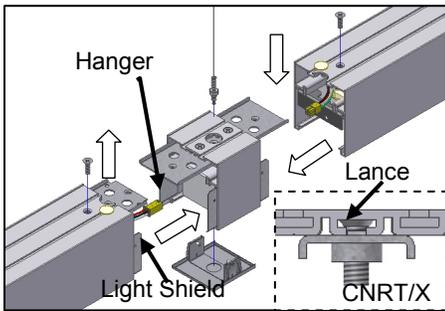
1. Remove all baffle assemblies or lenses where applicable. Locate the hanger from end cap kit if not pre-installed. Screw support cable stud into outside thread position on hanger. Raise first fixture into place and install hanger to fixture w/ provided screw located at other end of the fixture. Be sure LLMW, LLMA fixtures face correct direction.



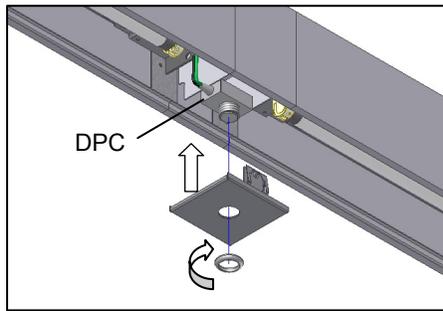
2. Remove plastic power feedhole cover on fixture. Insert power feed cord and press bushing firmly into feedhole. Pull wire harness out of cavity and plug in with the cord. Insert wires back into cavity.



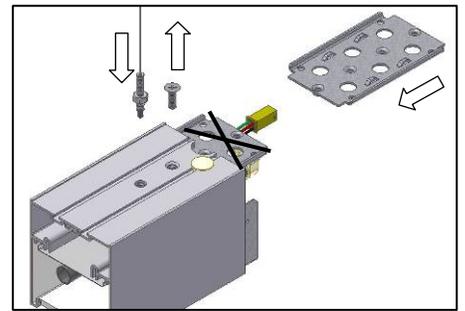
3a. Screw support cable stud into center thread position on hanger. Level the fixture by adjusting cable stud. Standalone units, skip this instruction and go to instruction 5, for TNN/CNR/CNRT/ CNRX go to instruction 3b.



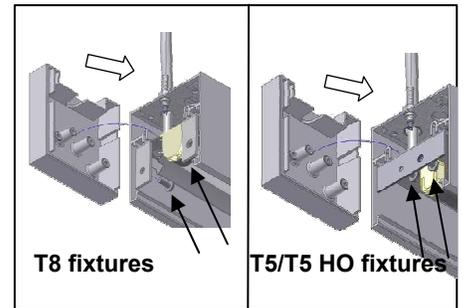
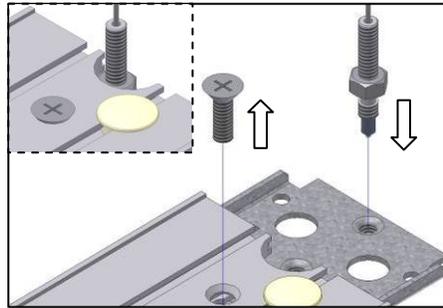
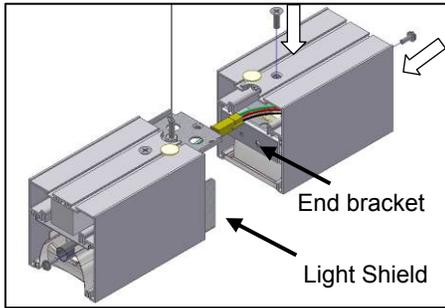
3b. **TNN/CNR/CNRT/CNRX:** Remove Light Shields and existing hanger on fixture if present. Pull wire harness out of cavity. Remove the Corner/Tenon cover. Raise Corner/Tenon into place. Securely join to the fixture with provided screw. Screw support cable stud into hanger on Corner/Tenon. Repeat same steps to join it with next fixture. Connect wires and install cover. Secure Light Shield with set screw. For CNRT/X, be sure the lance of hanger is fitting into the housing slot.



3c. **TNN/CNR DPC Option:** Gently pull DPC out of cavity before join Corner/Tenon to fixture. Refer step 3b to join Corner/Tenon together with fixture. Insert DPC into the hole of Corner/Tenon cover, secure nut as shown. Install Corner/Tenon cover.



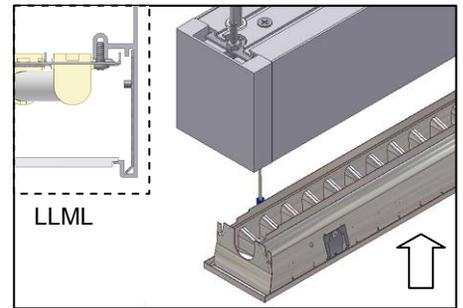
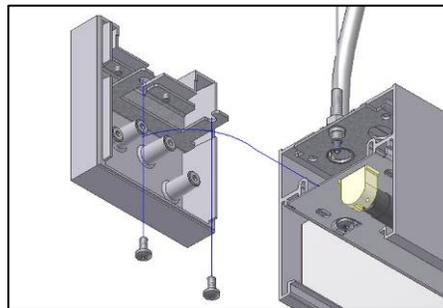
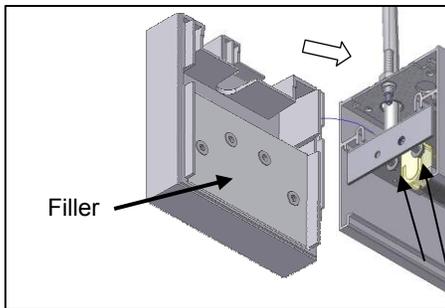
3d. **LLML OFFSET MTG:** Remove existing hanger on fixture. Use the same screw for installing hanger for offset mounting. Screw support cable stud into new hanger as shown. Level the fixture by adjusting cable stud.



4. Raise next fixture into position. Gently pull wire harnesses from fixture cavities and connect. Insert Light Shields into place and secure Light Shield with set screw. Slide fixtures together and securely join fixtures with screws on hanger and end bracket.

5. Install last support in fixture row: Attach cable support stud to hanger using outside thread position. Reinstall hanger to fixture using provided screw as shown on upper left corner.

6a. **LLMS/LLMA fixtures:** Remove Light Shields if present. Place end-cap into position. From inside fixture secure end-cap to end bracket with (2) provided hex screws as shown.



6b. **LLMW fixtures:** Remove Light Shields if present. Place filler inside end-cap as shown. Do not screw filler to end-cap. Place end-cap with filler into position. From inside fixture secure assembly with (2) provided hex screws.

6c. **LLML fixtures:** Place end-cap into position. Secure end-cap bracket to fixture with (2) provided #10 screws as shown.

7. If applicable, reinstall baffles. Be sure to install asymmetric baffles in correct orientation. For LLML, reinstall lenses properly into fixture as shown on left corner.

C) Stem Mounting Fixture Run Installation

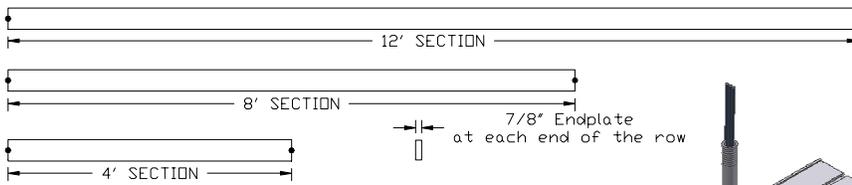
Mounting Kit Accessories	
Used On	Kit Name (Accessories)
	Stem Mounting
Support location at normal power feed	LLMFK
Support location at emergency power feed	LLMEK
Support location without power feed	LLMSK

C) Stem Mounting Fixture Run Installation

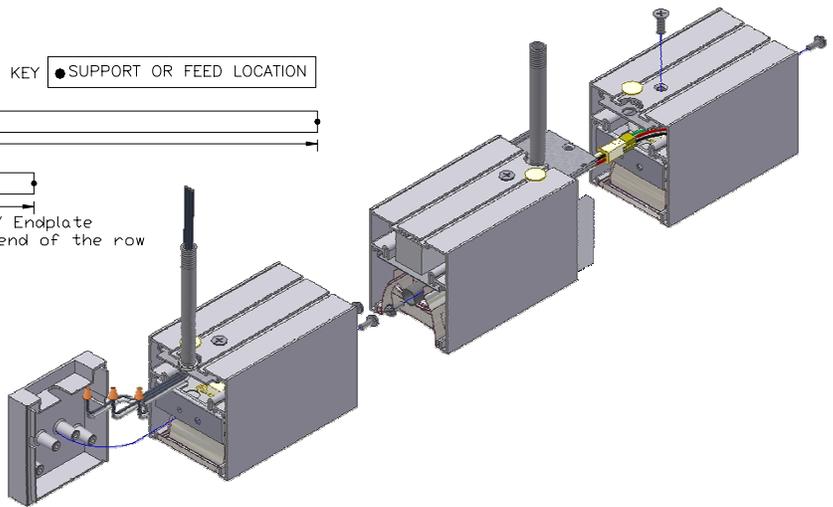
FOR LLMW, LLMA, LLMS:

* SUPPORT SPACING ARE 4', 8', AND 12'.

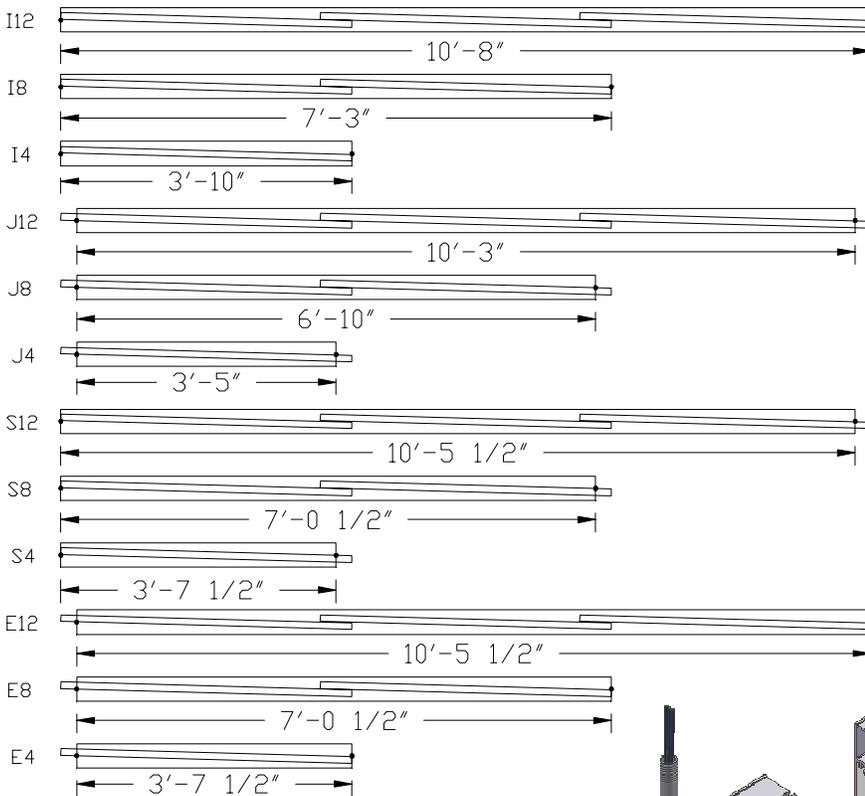
KEY ● SUPPORT OR FEED LOCATION



Support Spacing for
TNN / CNR / CNRT / CNRX
applications vary.
Consult factory drawings.

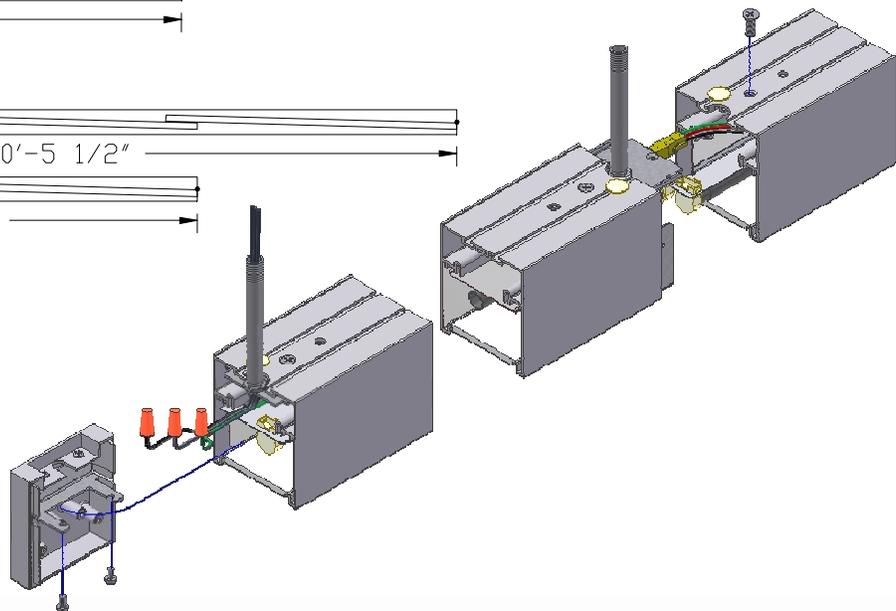


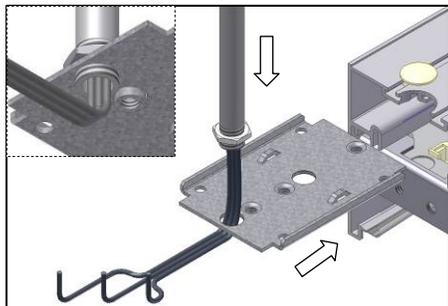
FOR LLML:



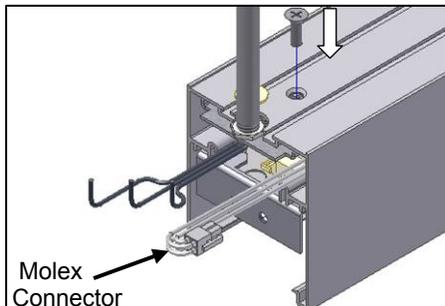
KEY ● SUPPORT OR FEED LOCATION

7/8" Endplate
at each end of the row

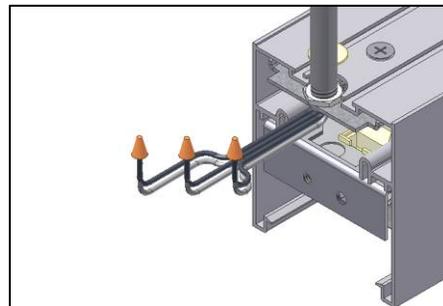




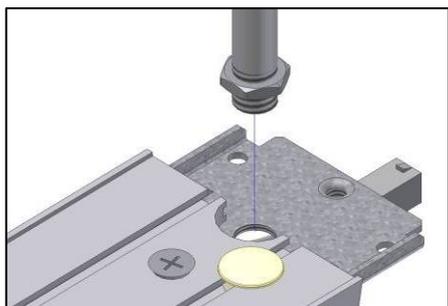
1. If applicable, remove all baffle assemblies or lenses. Locate hanger from end cap kit if not pre-installed. Be sure hex nut is in place on stem and guide wires through threaded hole on hanger. Fasten stem to hanger without stressing wires. Raise first fixture into position and test fit hanger to fixture. Tighten hex nut once fit is obtained. Be sure LLMW, LLMA fixtures face correct direction.



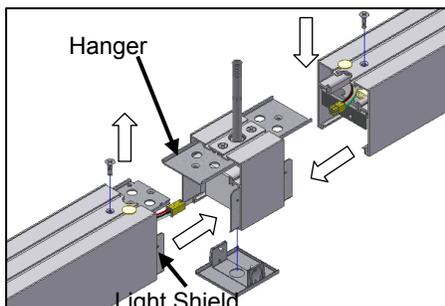
2. Pull fixture wire harness from cavity. Install hanger to fixture w/ provided screw located at other end of the fixture. Remove Molex connector from fixture wire harness with wire cutters and discard connector.



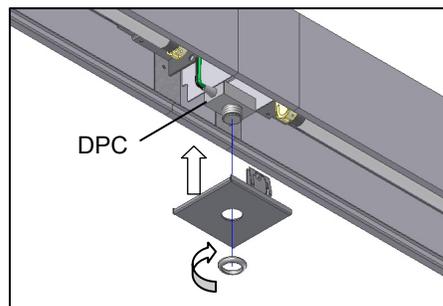
3. Splice power feed wires with fixture wires using appropriate twist-on wire connectors. Gently insert connection back into fixture cavity.



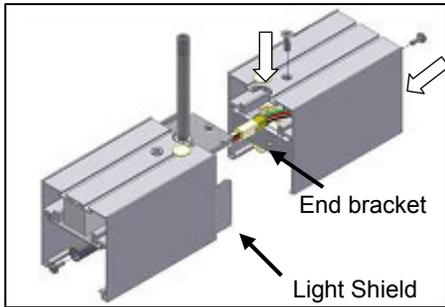
4a. Slide hanger bracket with stem thread into fixture cavity first and secure with the screw. Thread support stem into center thread position on hanger. Standalone units, skip this instruction and go to instruction 6, for TNN/CNR/CNRT/CNRX go to instruction 4b.



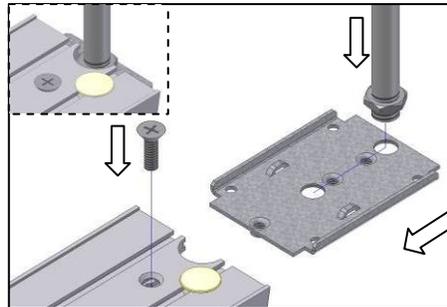
4b. **TNN/CNR/CNRT/CNRX:** Remove Light Shields and existing hanger on fixture if present. Gently pull wire harness out of cavity. Remove the Corner/Tenon cover. Raise Corner/Tenon into place. Securely join to the fixture with provided screw. Thread support stem into hanger on Corner/Tenon. Test fit then tighten hex nut. Repeat same steps to connect it to next fixture. Connect wires and install Corner/Tenon cover. Secure Light Shield with set screw.



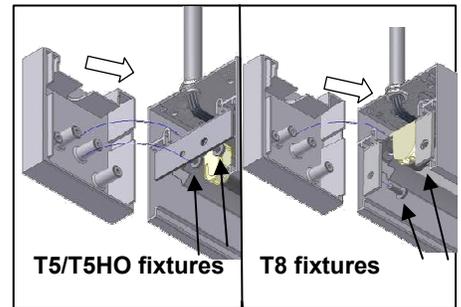
4c. **TNN/CNR DPC Option:** Gently pull DPC out of cavity before join Corner/Tenon to fixture. Refer step 4b to join Corner/Tenon together with fixture. Insert DPC into the hole of Corner/Tenon cover, secure nut as shown. Install Corner/Tenon cover.



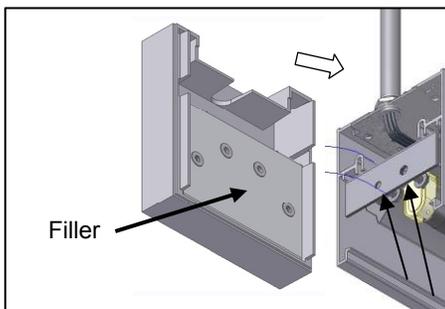
5. Raise next fixture into position. Gently pull wire harnesses from fixture cavities and connect. Insert Light Shields into place and secure light shield with set screw. Slide fixtures together and securely join fixtures with screws on hanger and end bracket.



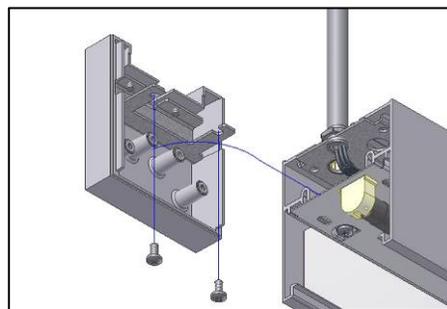
6. Install last support in fixture row: Discard the cable-mount hanger as step 4. Attach stem support to hanger using outside thread position. Secure hanger to fixture with the screw.



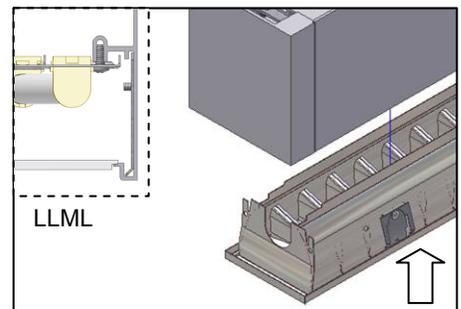
7a. **LLMS/LLMA fixtures:** Remove Light Shields if present. Place end-cap into position. From inside fixture secure end-cap to end bracket with (2) provided hex screws as shown.



7b. **LLMW fixtures:** Remove Light Shield if present. Place filler inside end-cap as shown. Do not screw filler to end-cap. Place end-cap w/ filler into position. From inside fixture secure assembly with (2) provided hex screws.



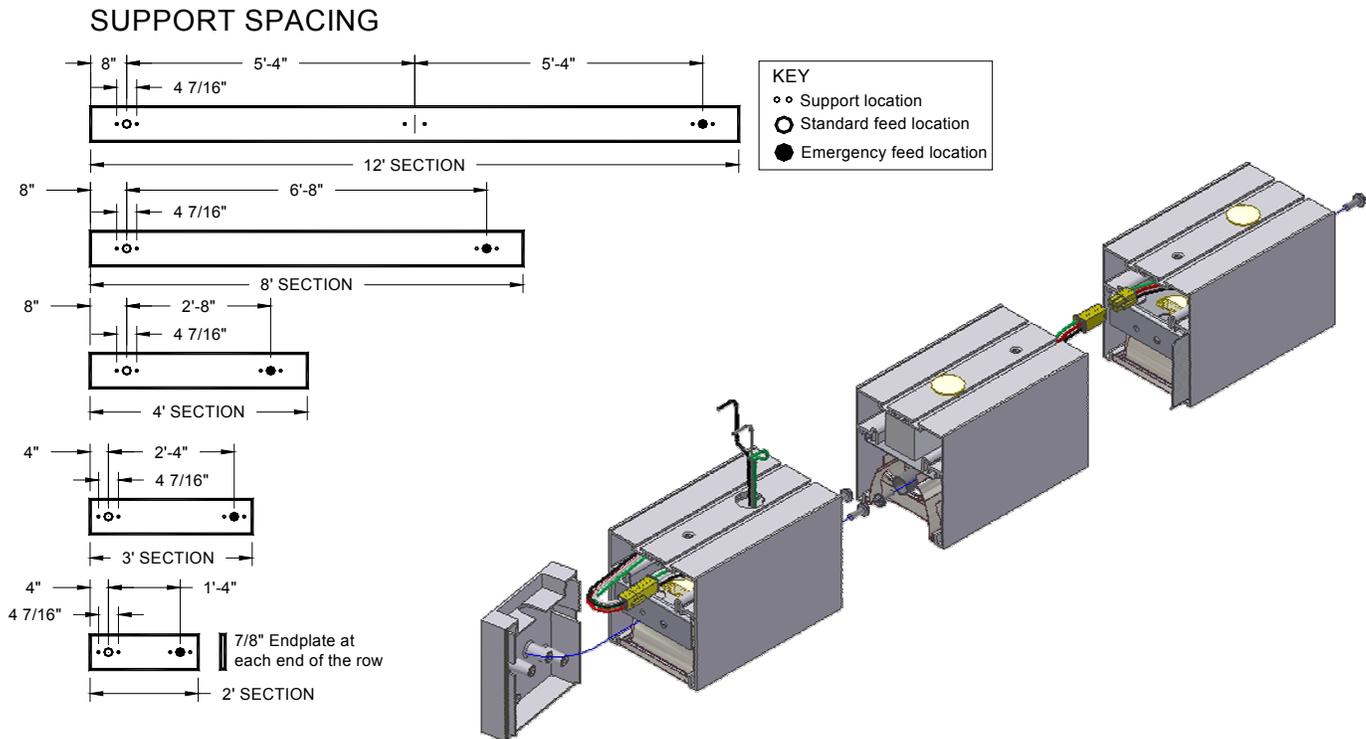
7c. **LLML fixtures:** Remove Light Shields if present. Place end-cap into position. Secure end-cap bracket to fixture with (2) provided #10 screws as shown.



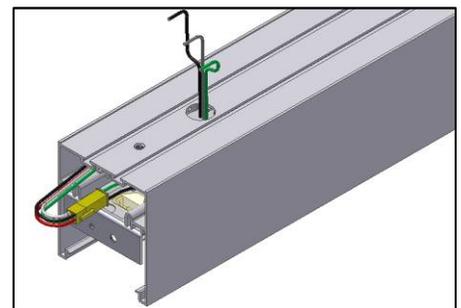
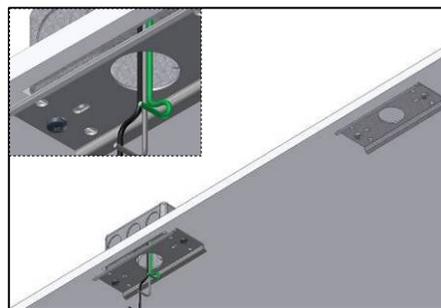
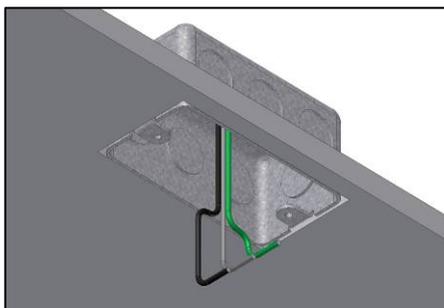
8. If applicable, reinstall baffles. Be sure to install asymmetric baffles in correct orientation. For LLML, reinstall lenses properly into fixture as shown on left corner.

D) Surface Mounting Fixture Run Installation

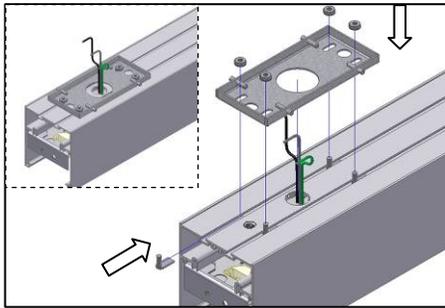
FOR LLMW S, LLMA S, LLMS S ONLY:



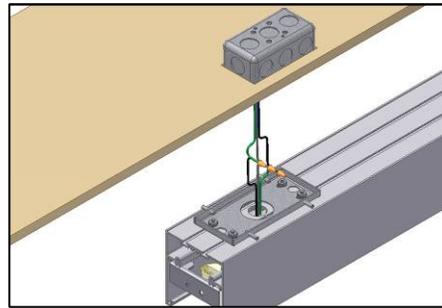
Mounting Kit Accessories	
Used On	Kit Name (Accessories)
Support location at normal power feed	LLMSFK/SK
Support location at emergency power feed	LLMSFK/SK
Support location without power feed	LLMSFK/SK



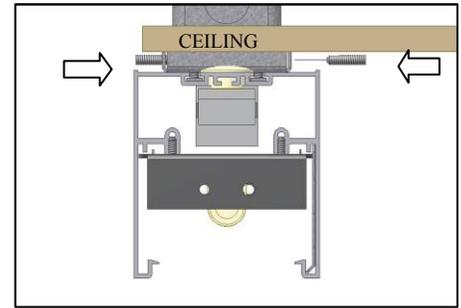
- Using a laser or snap line mark ceiling for center line. Using Support Spacing diagram determine locations of power feed and supports. Cut ceiling material for 2"x4" switch box at feed location. Pull building wires as shown.
- Pull building wires through fixture support bracket and attach it to switch-box with (2) screws provided from the box. Using (2) 1/4-20 screws (by others) attach support bracket to ceiling. Install support brackets at support locations noted in the Support Spacing diagram for entire run. Be sure ceiling is properly reinforced at all supports locations.
- If applicable, remove all fixture baffle assemblies or lenses. At the first fixture in row gently pull fixture wire harness out of cavity. Fish fixture power feed through power feed hole and connect wire harnesses. Place connection back in cavity.



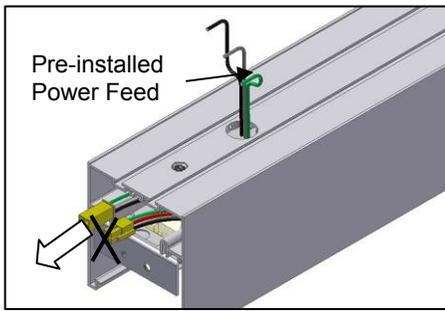
4. Slide (2) provided weld studs into each weld stud channel as shown. Without stressing wires, pull fixture wires through mounting plate. Attach fixture mounting plate with (1) provided nut per weld stud as shown.



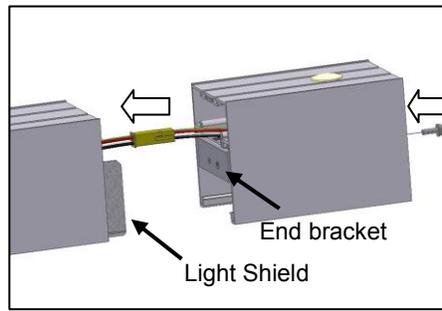
5. Raise fixture into position. Connect power feed wires w/ fixture wires using appropriate twist-on wire connectors. Gently insert connection back into the fixture.



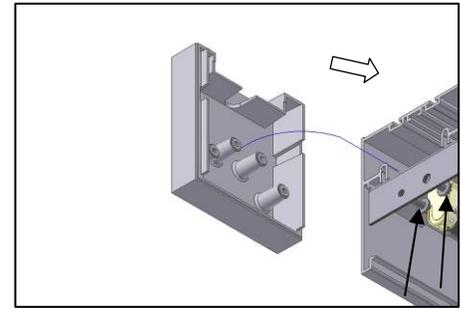
6. Attach fixture to support brackets using (4) provided set screws as shown. Be sure LLMW, LLMA fixtures face correct direction.



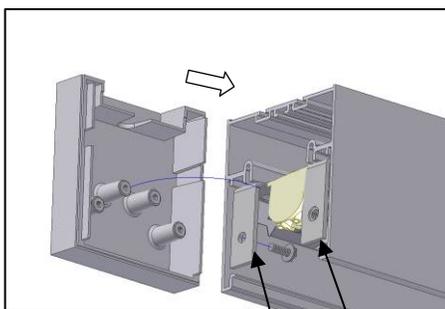
7. At non power feed location for next fixture in run. Gently pull wire harness from cavity as shown. Disconnect and discard power feed (pigtail). For standalone fixtures skip this step and go to instruction 9.



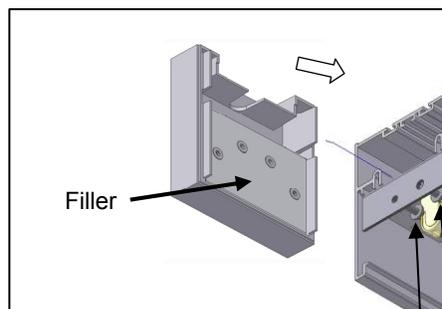
8. **LLMS/LLMA/LLMW S fixtures:** Install mounting plates as shown in 4. Raise fixture into position. Connect wire harnesses and secure Light Shield with set screw. Secure fixture to ceiling as in 6. Securely join fixtures with (2) provided screws through end brackets.



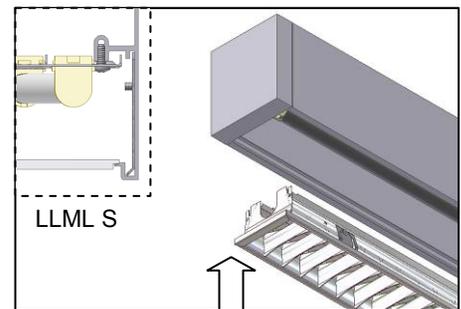
9a. **LLMA/LLMS S T5/T5HO fixtures:** Remove Light Shields if present. Place end-cap into position. From inside fixture secure end-cap to end bracket w/ (2) provided hex screws as shown.



9b. **LLMS S/LLMA S T8 fixtures:** Remove Light Shield if present. Place end-cap into position. From inside fixture secure end-cap to end bracket w/ (2) provided hex screws



9c. **LLMW S fixtures:** Remove Light Shield if present. Place filler inside end-cap as shown. Do not screw filler to end-cap. Place end-cap w/ filler into position. From inside fixture secure assembly w/ (2) provided hex screws.



10. If applicable, reinstall baffles. Be sure to install asymmetric baffles in correct orientation. For LLML S, reinstall lenses properly as shown on upper left corner.