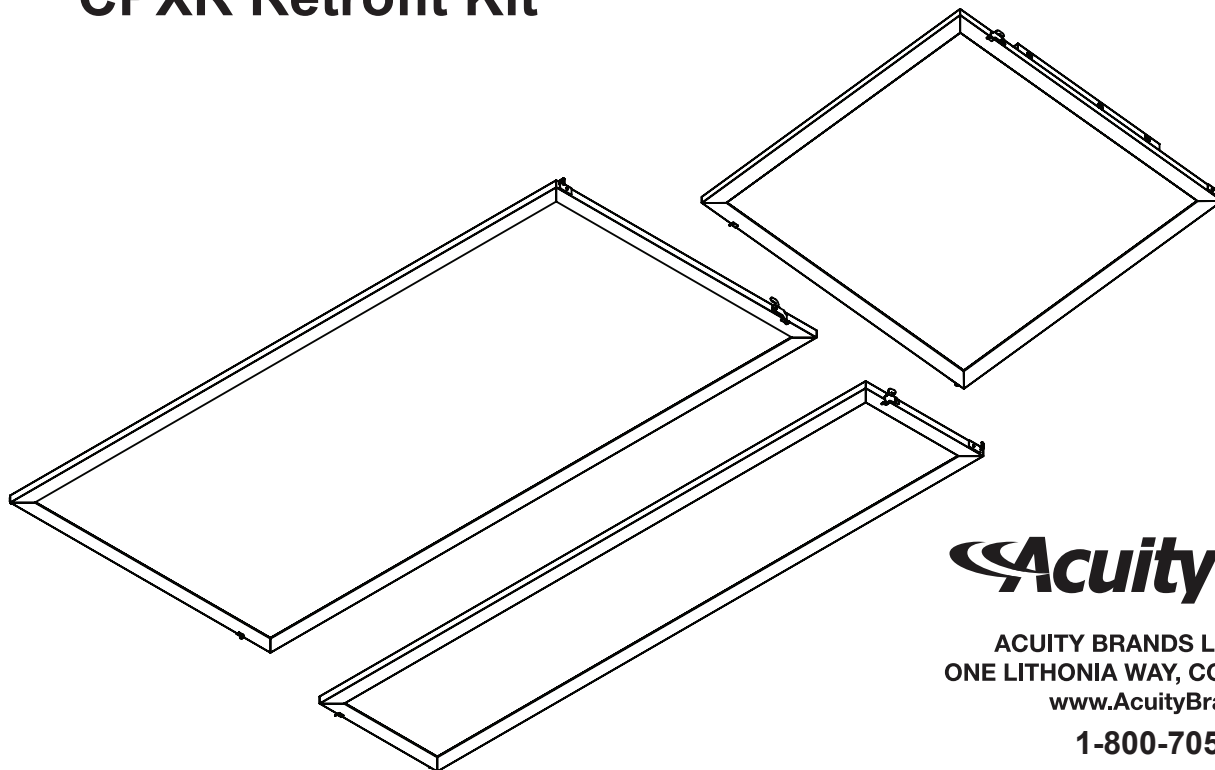


## CPXR Retrofit Kit



**AcuityBrands®**

ACUITY BRANDS LIGHTING, INC.  
ONE LITHONIA WAY, CONYERS, GA 30012  
[www.AcuityBrands.com](http://www.AcuityBrands.com)

**1-800-705-SERV (7378)**

### SAVE THESE INSTRUCTIONS

#### Model Number

USC, UNC - LED Retrofit Luminaire Conversion Kit, Models  
CPXR 2X2\*, CPXR 1X4\*, CPXR 2X4\*#

\* May be represented by additional suffixes that can be a combination of letters, numbers, and symbols for non-safety related product modifications.

# May be "07" means product that rated wattage 16/23/32W,  
May be "08" means product that rated wattage 31/39/48W.

Protect yourself. Before installing,  
read these instructions carefully and  
save them for future reference.

Date Installed: \_\_\_\_\_

#### TOOLS REQUIRED FOR INSTALLATION

Safety glasses  
Drill  
Phillips screwdriver  
Pencil  
Hammer  
Pliers  
Ruler  
Wire Strippers  
Flat blade screwdriver

Model Number	Input Ratings			
	V	Hz	A	W
CPXR 2X2*	120 - 277	50/60	0.13-0.3	16/23/32
CPXR 1X4*	120 - 277	50/60	0.13-0.3	16/23/32
CPXR 2X4*#	120 - 277	50/60	0.13-0.3	16/23/32
	120 - 277	50/60	0.2-0.48	31/39/48

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

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service of luminaires should be performed by a **qualified licensed electrician**.
- Maintenance of the luminaires should be performed by person(s) familiar with the luminaires' construction and operation and any hazards involved. Regular fixture maintenance programs are recommended.
- It will occasionally be necessary to clean the outside of the refractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should optical assembly become dirty on the inside, wipe refractor/lens and clean in above manner, replacing damaged gaskets as necessary.
- **DO NOT INSTALL DAMAGED PRODUCT!** This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
- Recycle: For information on how to recycle LED electronic products, please visit [www.epa.gov](http://www.epa.gov).
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to Acuity Brands Lighting, Inc.



**WARNING**  
**RISK OF ELECTRIC SHOCK**

- ✓ Disconnect or turn off power before installation or servicing.
- ✓ Verify that supply voltage is correct by comparing it with the luminaire label information.
- ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- ✓ All wiring connections should be capped with UL approved recognized wire connectors.



**WARNING**  
**RISK OF BURN**

- ✓ Allow lamp/fixture to cool before handling. Do not touch enclosure or light source.
- ✓ Do not exceed maximum wattage marked on luminaire label.
- ✓ Follow all manufacturer's warnings, recommendations and restrictions for: driver type, burning position, mounting locations/methods, replacement and recycling.



**CAUTION**  
**RISK OF INJURY**

- ✓ Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- ✓ Avoid direct eye exposure to the light source while it is on.



**CAUTION**  
**RISK OF FIRE**

- ✓ Keep combustible and other materials that can burn, away from lamp/lens.
- ✓ Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.



### CAUTION: RISK OF PRODUCT DAMAGE

- ✓ Never connect components under load.
- ✓ Do not mount or support these fixtures in a manner that can cut the outer jacket or damage wire insulation.
- ✓ Controls for dimming, auto-sensing, or remote control of a luminaire that are not factory-wired to the luminaire must be checked for compatibility with the luminaire prior to installation. LED fixtures must be powered directly off a switched circuit.
- ✓ Unless individual product specifications deem otherwise: Do not restrict fixture ventilation. Allow for some volume of airspace around fixture. Avoid covering LED fixtures with insulation, foam, or other material that will prevent convection or conduction cooling.
- ✓ Unless individual product specifications deem otherwise: Do not exceed fixtures maximum ambient temperature.
- ✓ Only use fixture in its intended location.
- ✓ LED products are Polarity Sensitive. Ensure proper Polarity before installation.
- ✓ Electrostatic Discharge (ESD): ESD can damage LED fixtures. Personal grounding equipment must be worn during all installation or servicing of the unit.
- ✓ Do not touch individual electrical components as this can cause ESD, shorten lamp life, or alter performance.
- ✓ Some components inside the fixture may not be serviceable. In the unlikely event your unit may require service, stop using the unit immediately and contact an ABL representative for assistance.
- ✓ Always read the fixtures complete installation instructions prior to installation for any additional fixture specific warnings.
- ✓ Always ensure that the electrical distribution system is up to NEC (and any applicable local code) requirements.
- ✓ Verify that power distribution system has proper grounding. Lack of proper earth ground can lead to fixture failure and may void warranty.

Choose either Part 15 OR Part 18 and move to Page 3 Installation Instructions under Delivery. Lithonia Outdoor will always use Part 15. All luminaires that contain electronic devices that generate frequencies above 9kHz from any component within the luminaire comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation

This device complies with Part 18 of the FCC Rules but may cause interference with cordless and cell phones, radios, televisions, and other electronic devices. To correct the problem, move the device away from the luminaire or plug into a different outlet. This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communications equipment operating between 0.45-30MHz.

**Failure to follow any of these instructions could void product warranties. For a complete listing of product Terms and Conditions, please visit [www.acuitybrands.com](http://www.acuitybrands.com).**

Our Brands	Indoor/Outdoor	Indoor Lighting	Outdoor Lighting	Controls	Daylighting
	Lithonia Lighting	Aculux	American Electric Lighting	DARK TO LIGHT	SunOptics
	Carandini	Gotham	Antique Street Lamps	LC&D	
	Holophane	Indy	Hydrel	ROAM	
	RELOC	Juno	Tersen	Sensor Switch	
	Light Concepts	Mark Architectural Lighting		Synergy	
		Peerless			
		Renaissance Lighting			
		Winona Lighting			

**Acuity Brands Lighting, Inc. assumes no responsibility for claims arising out of improper or careless installation or handling of its products.**

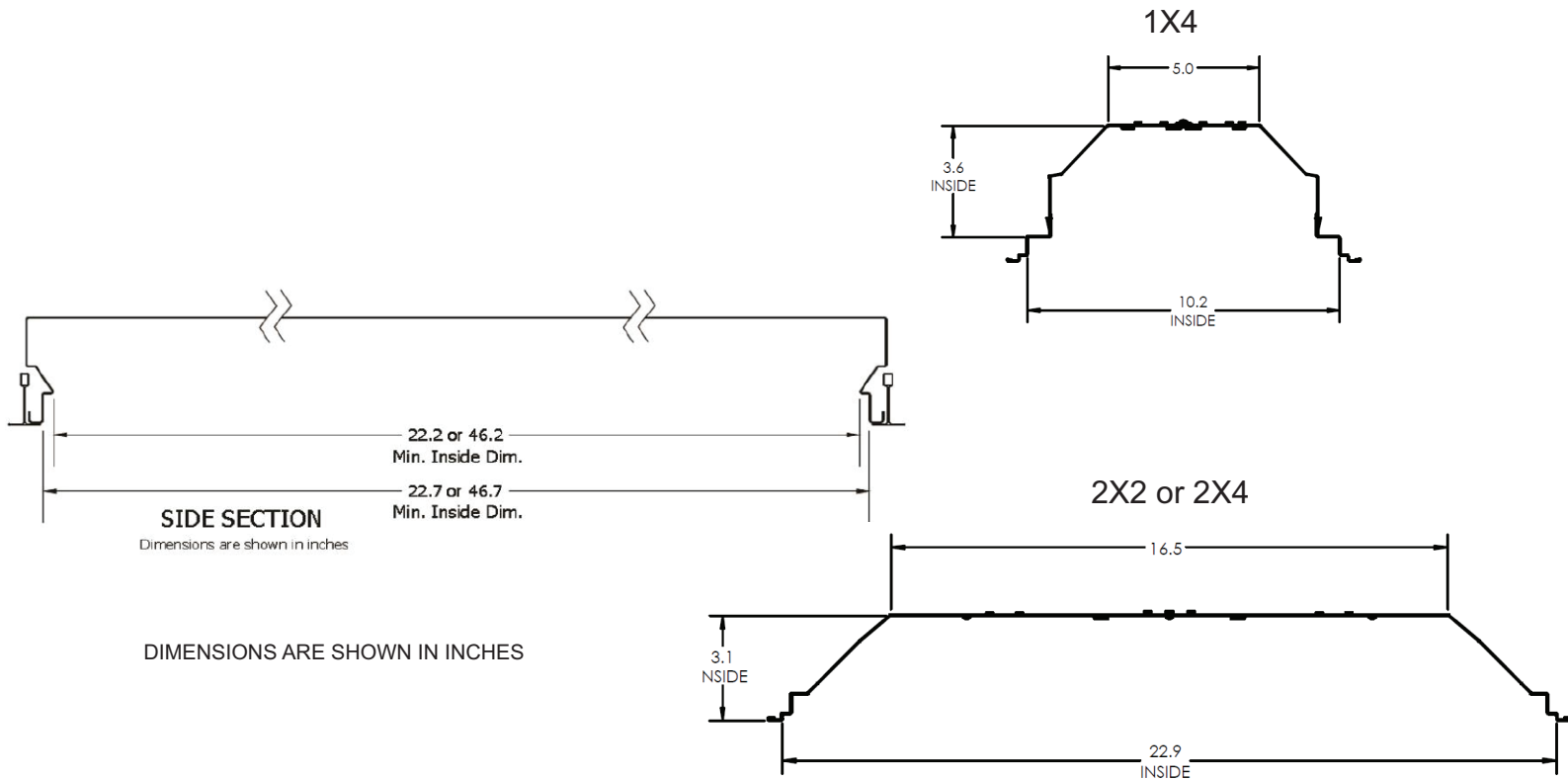
ABL LED General Warnings, Form No. 503.203 © 2010, 2016 Acuity Brands Lighting, Inc. All rights reserved. 12/01/10

**Note: Turn off power at circuit breaker box!**

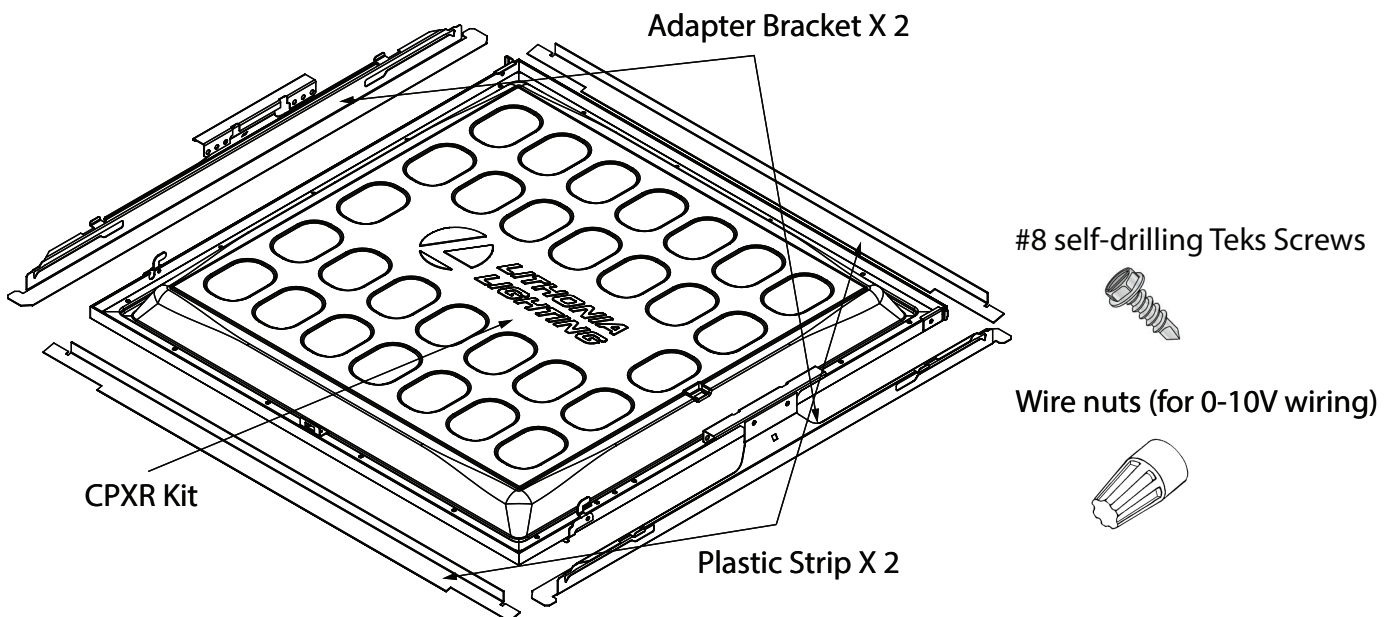
- **WARNING:** Electrical shock can occur during retrofit component installation if power is not turned off.
- **WARNING:** Risk of fire or electric shock. Installation of this retrofit assembly requires a person familiar with the construction and operation of the luminaire's electrical system and the hazard involved. If not qualified, do not attempt installation. Contact a qualified person.
- **WARNING:** Risk of fire or electric shock. Install this kit only in the luminaire that has the construction features and dimensions shown in the photographs and / or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.
- **WARNING:** Unless otherwise indicated, do not make or alter any opening in the compartment of wiring or electrical components during installation of this retrofit assembly.
- **WARNING:** Insure that existing fixture is and remain properly connected to building ground. Use of any other than Lithonia Lighting supplied screws to install assembly may result in ungrounded fixture components.
- **WARNING:** To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- The retrofit kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction. Product must be installed by a qualified electrician in accordance with the applicable and appropriate electrical codes. The installation guide does not supersede local or national regulations for electrical installations.
- **WARNING:** If retrofitting a recessed luminaire that is suitable for air handling space, use the existing metal housing that is already there.
- Installers should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.
- **WARNING:** Risk of fire. Input ratings may need to be determined based on any configuration(s) permitted by the installation instructions. Regardless of the configuration(s) of the retrofit kit, the input ratings of the overall retrofit kit shall not exceed the marked input ratings of the host luminaire.
- Prior to installation, review all environmental designation locations in the retrofit kit installation instructions. Only install in damp locations if so indicated in the installation instructions.
- Suitable for damp locations.
- **WARNING:** Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.
- Only those open holes indicated in the photographs and / or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.
- For use with host luminaires.
- Suitable for open type luminaires.
- Suitable for closed type luminaires.
- Suitable for use with luminaires with specific dimension of lamp compartment.
- **Class 1 wiring only**

This CPXR Kit was engineered to upgrade most recessed fixtures mounted in T-grid ceiling installation, including most parabolic and lensed troffers from all major manufacturer.

Minimum inside dimension of host housing is shown below. A trial installation of this product is recommended prior to purchasing project quantities.

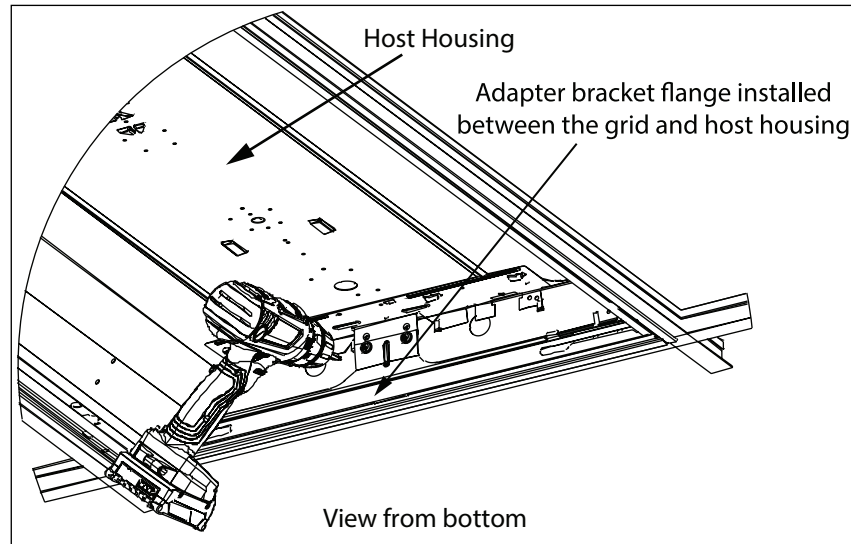


## CPXR Kit include below items

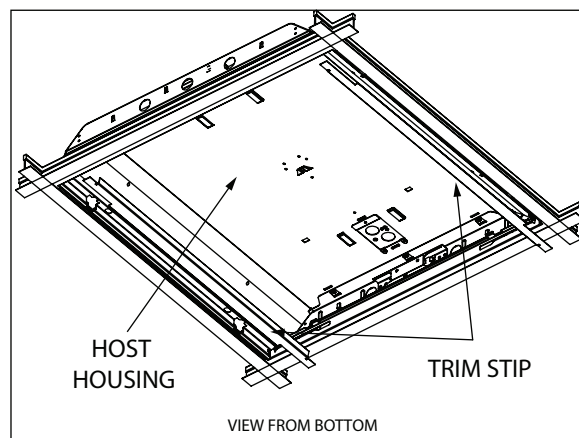


**Step 1:** Remove existing components from host fixture. Remove lamp and channel cover. Identify the power supply wires and remove any existing disconnects or wire nuts. Remove all lamp, lampholders, brackets, wires, and ancillary components. Remove any existing bracketry from previous relighting or retrofitting. Host fixture housing should now be completely empty, except for the incoming power wiring.

**Step 2:** Install Adapter Bracket that is provided with the kit to existing end of fixture housing, sandwiching the outer flange between T-Grid and fixture housing. Attach Adapter Bracket by driving two TEKS screws (included) through two holes in each Adapter Bracket and into the endplates of the existing host housing.

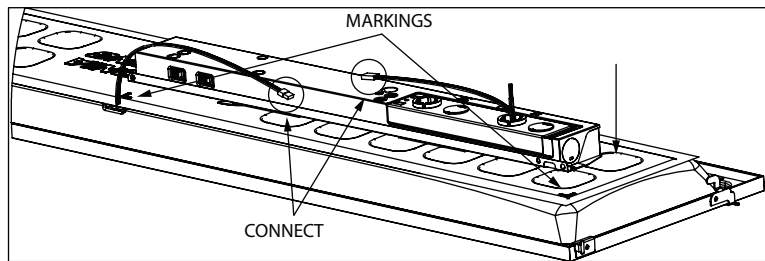


**Step 3:** Install the included trim strips on each side of the opening by sliding the flat flange of the strip between the T-Grid and the host housing to secure.

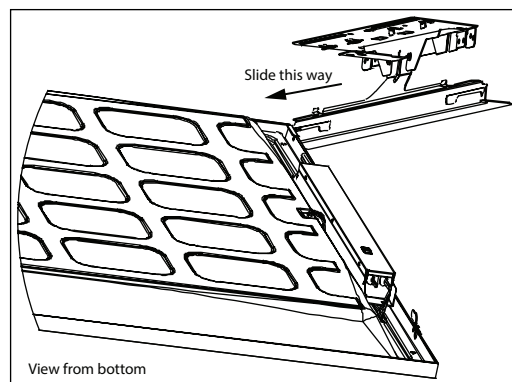
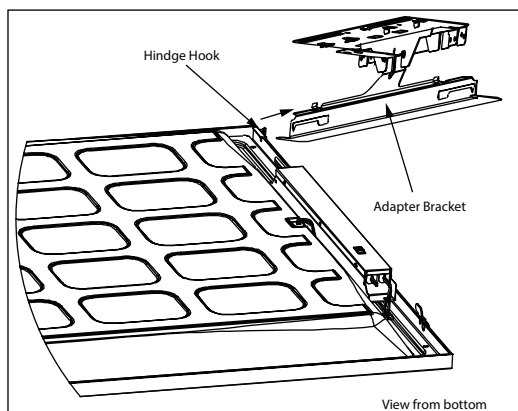




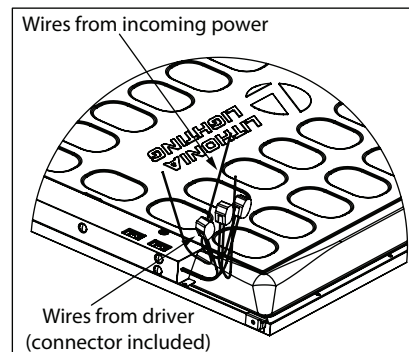
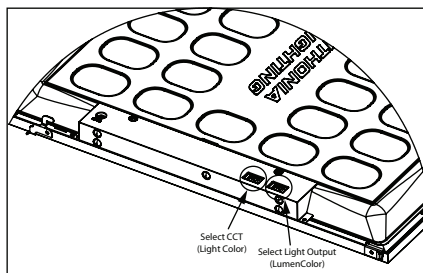
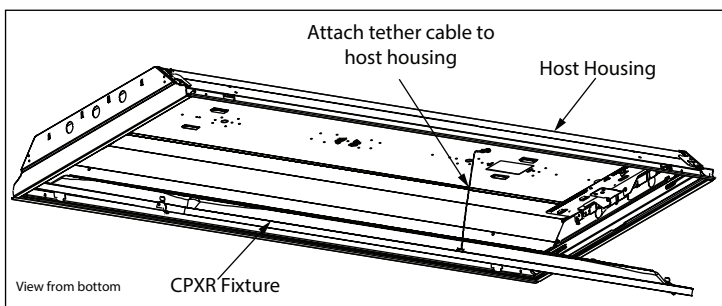
**Step 4 (For 1x4 CPXR kit only):** Peel the protective backing from back of the driver box. Align the driver box on back of luminaire markings. Press down firmly for about 5 seconds. Connect DC cable connector from the driver box to the connector from the luminaire.



**Step 5:** Engage the hinge hooks on each end of the CPXR Kit into the corresponding slots in the Adapter Brackets and slide completely down both slots.



**Step 6:** Attach tether cable from CPXR Kit to the host housing using Teks screw included with kit. Use switch on driver box to select appropriate light color (CCT) and light output (lumens). 40K at High Lumen is factory default setting. Connect incoming power to the wires from the CPXR driver using connector that are already attached to the input wires from the driver. Connect black wire from driver to live wire from incoming power, white wire from driver to neutral from power, bare copper / green from driver to ground. Optional step: connect 0-10V dimming wires using wires nuts provided. Purple wire is 0-10V (+), Pink wire is 0-10V (-). If not 0-10V is not needed, then make sure bare copper at the end of the dimming wires from CPXR driver are not exposed.



**Step 7:** Close and latch CPXR Assembly door, making sure no wires are pinched or exposed. Turn ON power at circuit breaker and test successful installation.

