NOTES
- Installation should be completed by an individual familiar with the construction and operation of the luminaire.
- Installation of luminaire must be in accordance with national and local building and electrical codes.
- Carefully read and follow all warnings and instructions before installing or servicing the luminaire.
- Instructions do not cover all details and all possible product configurations
- Do not restrict luminaire ventilation.
- Ensure LED luminaire is not covered with material that will prevent convection or conduction cooling.
- Do not exceed luminaire's maximum ambient temperature.
- Ensure LED luminaire has the correct polarity before installation.
- These products have maximum rated output voltage that exceeds the voltage limits that cannot be accessible based on voltage restrictions for Class 2 circuits in Canadian Electrical Code. This output complies with the definition of Class 2 per Canadian Electrical Code. This product complies with this requirement since the installation instruction requires installation in restricted access area.

WARNINGS

Electric shock:
- Disconnect or turn off power before installing or servicing luminaire and test that power is off.
- **Fixture should ONLY be powered on with access plate installed in fixture**.
- All electrical wiring to be completed by a qualified licensed electrician in accordance with local and National/Canadian Electrical Code.
- Ensure supply voltage corresponds with the correct ballast/driver voltage.
- Avoid exposing wiring to metal edges and sharp objects.
- Ensure that the luminaire is properly grounded to prevent electric hazards.
- Before powering up fixture, perform appropriate testing to ensure the fixture is properly grounded.

Fire:
- Keep flammable and combustible materials away from the light source and/or lens.
- Use correctly rated supply conductors as indicated by product labeling.

Burn:
- Allow luminaire to cool before handling luminaire.

Personal Injury:
- Wear safety glasses and gloves when handling the luminaire to avoid physical injury.
- Avoid direct eye contact with light source.
- Always support the weight of the luminaire.

Intended Use:
- Certain airborne contaminants can diminish integrity of acrylic and/or polycarbonate.
- Certain airborne contaminants may also adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the containments, ventilation, and temperature at the end-user location.
- Failure due to the effect of contaminants is not covered under our standard terms of warranty.

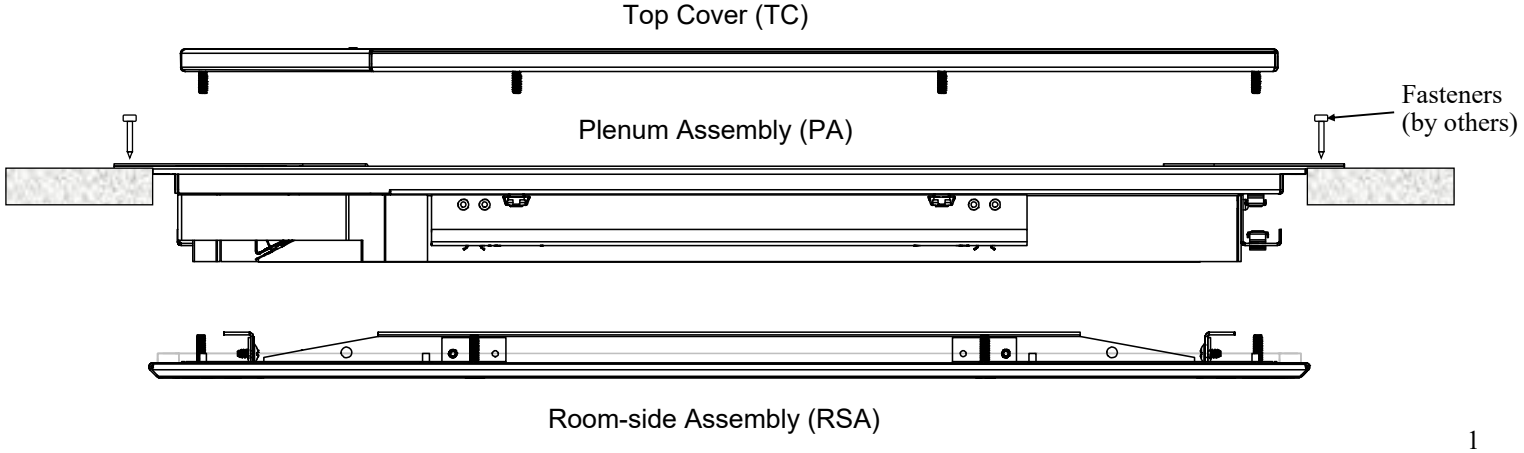
Manufacturer is not responsible for any injuries due to the improper installation or handling of its products.

A. Verify ceiling cutout size from the specification sheet.

Ceiling Cut-Out Dimensions (Inches)		
Size	Width	Length
1x4	14.25”	50.25”
2x2	26.25”	26.25”
2x4	26.25”	50.25”

B. Locate fixture position within the center of a single panel following panel manufacturer's instructions for panel preparation. (Do not locate fixture across two panels or within 6 inches of a panel edge.)

C. Cut panel using care to ensure they are the correct size and corners are 90 degrees. Also be sure that edges are deburred and not deformed.



Installation: (2 Persons required)

1. Separate the fixture from the carton and remove Top Cover (TC) by loosening captive 10-24 flat-head Philips screws (Fig.1) and set aside. Next, remove 10-24 pan head screws from fixture Plenum assembly (PA), separating the Room-Side Assembly (RSA) (Fig.2).
2. With the ceiling panel on work surface, insert PA through the opening and secure with ceiling manufacturer-approved hardware (by others) to the ceiling panel's exterior, plenum side (Fig. 3).
3. From the panels room-side (interior side), mate the RSA with the PA, being careful not to damage the lens. (Lift using the outer frame and align with the provided 10-24 pan head attachment screws. (Screw length varies by ceiling thickness) Start 1/4-20 pan head screws by hand just a few threads. Install all screws.
4. Tighten 10-24 pan-head screws to 5 - 7 lb/in (DO NOT OVERTIGHTEN, set screwdriver to minimum torque setting). Before proceeding, verify that the room-side gasket is in firm contact with the ceiling surface.
5. From plenum side, insert safety tether(s) (2) that are attached to RSA into slots in PA.
6. Rough-in fixture conduit through the 7/8" hole located in the corner of the PA (Fig. 4). Tighten the conduit fitting to 1/2 inch trade-size power entry hole. Securely connect the grounding conductor to the marked connection point. Make electrical connections within the wireway and reattach the wiring access plate.
7. Remove debris from inside the completed fixture.
8. Re-install TC and secure TC with 10-24 captive screws.
9. Lift ceiling panel and fixture into position within the building and secure panel to the structure.
10. Energize fixture from a protected branch circuit.

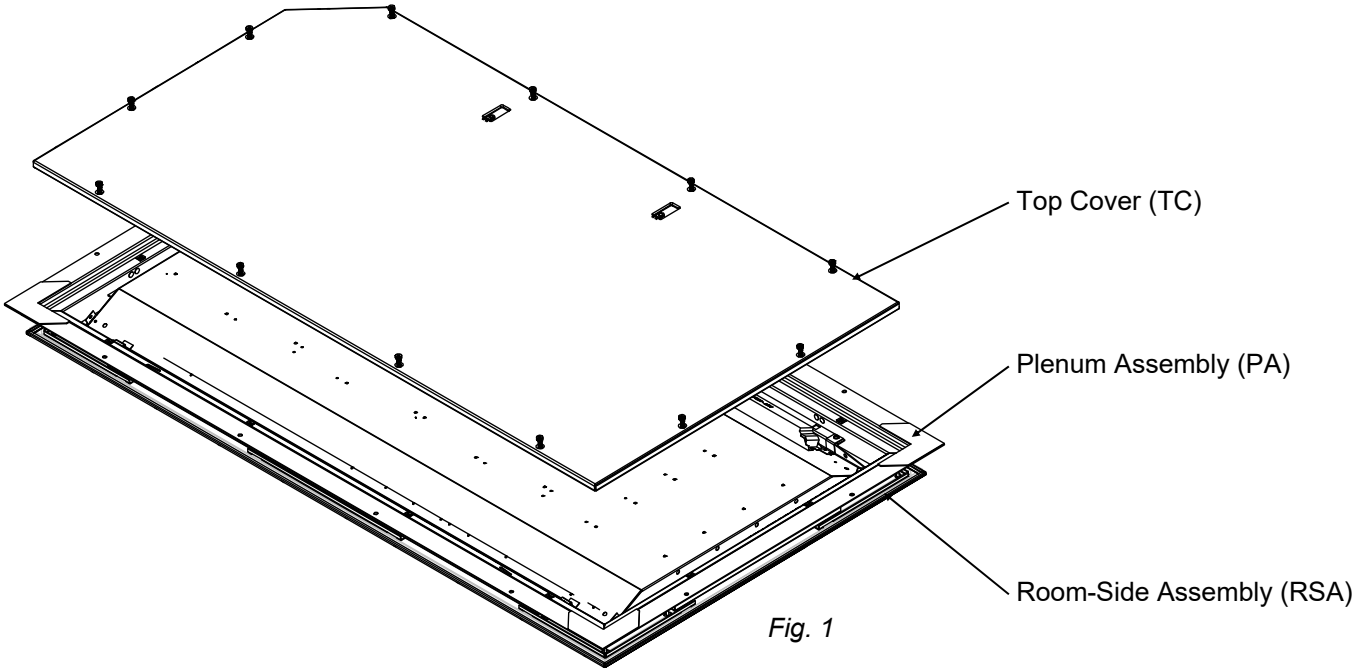


Fig. 1

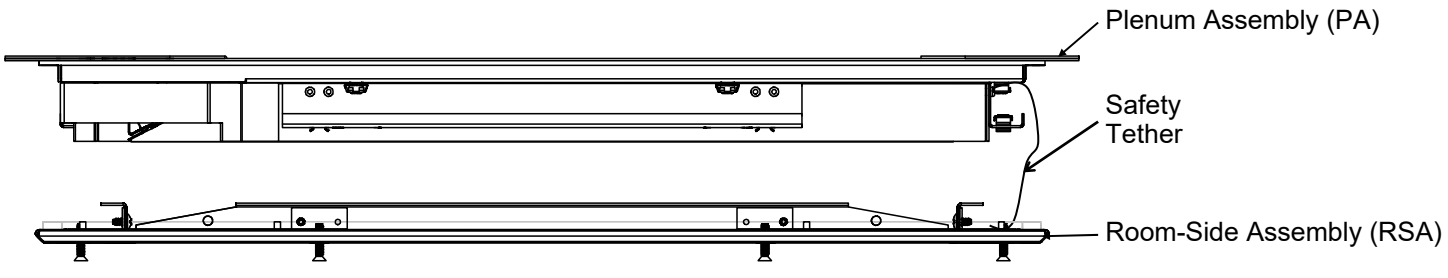


Fig. 2

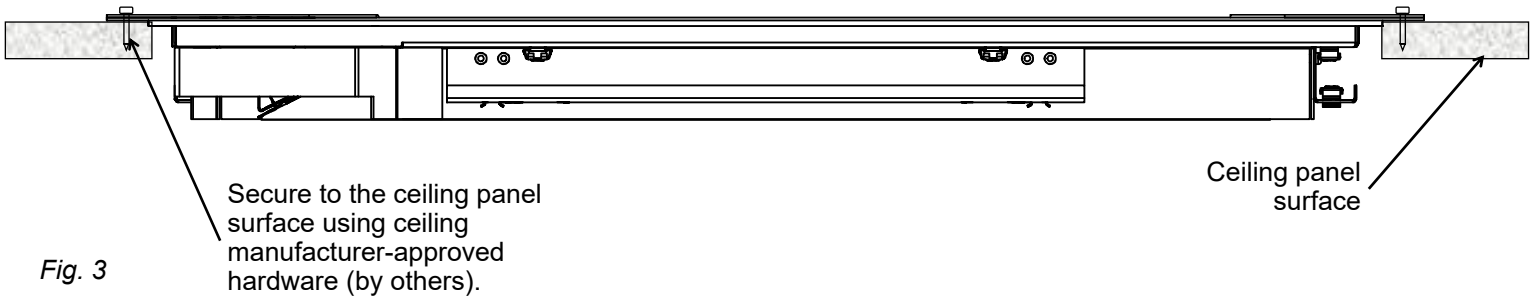

Secure to the ceiling panel surface using ceiling manufacturer-approved hardware (by others).
Ceiling panel surface

Fig. 3

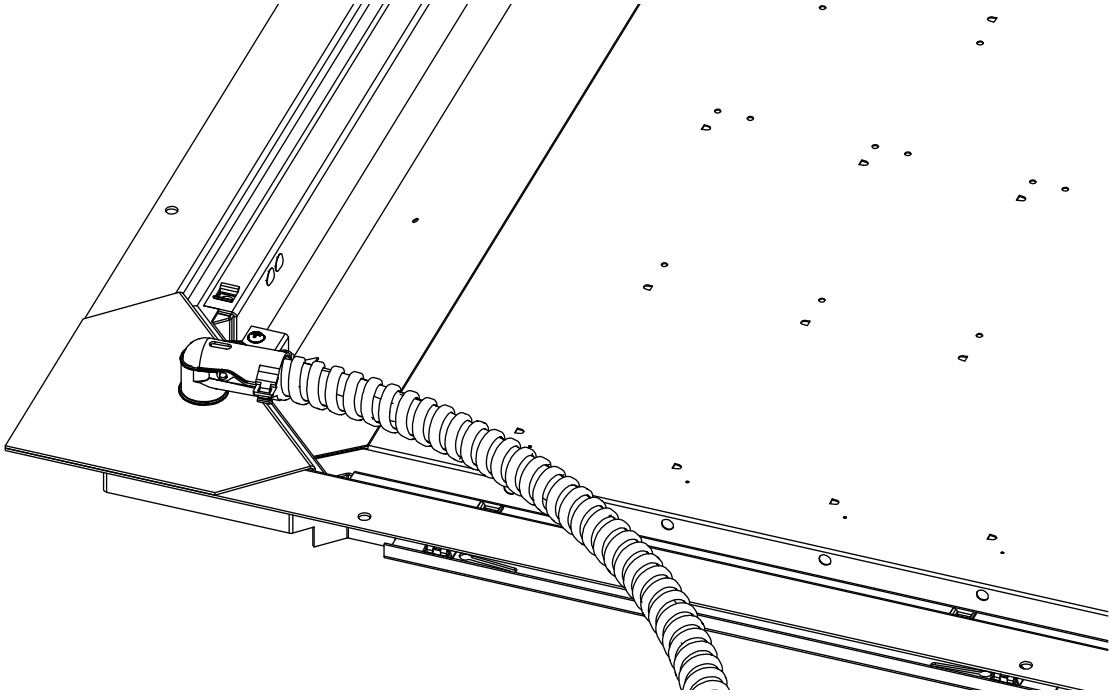


Fig. 4

Driver Replacement:

1. Prepare for work: Disconnect power and lock out circuit. Protect area above and below fixture by setting up barriers to prevent walking near fixture.
2. From above, loosen #10-24 flat-head Philips screws that secure the top cover and lift off.
3. Carefully remove only the small screws that secure driver. (Caution- POSSIBE INJURY OR DEATH: Do not remove the 1/4-20 attachment screws. Doing so will cause the fixture RSA to fall)
4. Note color and orientation of the wiring. (Tip: Take a picture for later reference) Detach wiring from the driver using a wire removal tool or very narrow blade screwdriver.
5. Remove screw to replace the affected driver with a model. (Physical and electrically similar drivers are available from several online sources and from our factory. Provide the fixture QR bar code as a reference when calling the factory.)
6. Secure in place new driver.
7. Replace wiring, being very careful to follow polarization and referencing previous wiring method. (Wire with red stripe is LED positive polarity. Blue Stripe is LED negative.)
8. Re-secure the top cover as before.

Cleaning:

1. Wash-down method: Using spray equipment able to deliver no more than 12 liters per minute from a minimum 6.3 mm nozzle positioned 3m away. Water may be warm but not hot and may contain mild detergents. This is to be followed by a rinse with clean water. After rinsing, a wipe-down is recommended being careful not to disturb the fixture seals.
2. Wipe-Down method: Using site approved atomized spray chemicals diluted to their proper concentration, spray the fixture surface and let stand for at least 20 seconds before wiping with lint-free cleanroom-rated wipers. For sterile environments, use cleaning methods and materials as directed by the lab manager. Caution: Do not use acid based cleaners without complete rinsing or leave materials to dry (concentrate) on the surfaces.

Maintenance: (To be performed only by a qualified electrician familiar with this style of LED luminaire/fixture)

LED Board Replacement:

1. Prepare for work: Disconnect power and lock out circuit. Protect area above and below fixture by setting up barriers to prevent walking near fixture.
2. From above, loosen #10-24 flat-head Philips screws that secure the top cover (TC) and lift off.
3. Carefully remove only the small screws that secure reflector. (Caution- POSSIBE INJURY OR DEATH: Do not remove the 1/4-20 attachment screws. Doing so will cause the fixture RSA to fall)
4. Lift the reflector assembly to gain access to the LED arrays.
5. Note color and orientation of the wiring. (Tip: Take a picture for later reference) Detach wiring from LED board.
6. Remove screw to replace the affected LED board with a matching board. (Physical and electrically similar boards are available from several online sources and from our factory. Provide the fixture QR bar code as a reference when calling the factory.) Secure in place new LED board. Caution: Do not touch the LED chip or their yellow phosphor surfaces. This can cause unseen damage, reducing their lifespan.)
7. Reconnect wiring, matching the polarity of the wiring. (Wire with red stripe is LED positive polarity. Blue Stripe is LED negative.)
8. Secure with screw as before so that LED is captured & supported by lances and the screw along its full length.
9. Re-secure the reflector and Top cover (TC) as before.