

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!

- 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.
- Do not use outdoors.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than its intended use.
- 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.
- 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 equipment 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 hot lens, lamp, guard, or enclosure. ✓ Do not exceed maximum wattage marked on luminaire label. ✓ Follow all lamp manufacturer's warnings, recommendations and restrictions on lamp operation including but not limited to: ballast type, burning position, replacement, and recycling.
 CAUTION RISK OF INJURY ✓ Wear gloves and safety glasses at all times when removing equipment 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**

- ✓ Modulus luminaires should only receive low voltage DC power provided from an adequately-rated Modulus head unit. **DO NOT CONNECT LINE VOLTAGE TO MODULUS LUMINAIRES.**
- ✓ 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.
- ✓ Unless individual product specifications deem otherwise: Never connect an LED product directly to a dimmer packs, occupancy sensors, timing devices, or other related control devices. 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.

Please see product specific installation instructions for additional warnings or any applicable FCC or other regulatory statements.

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.

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

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**SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER
AFTER INSTALLATION**

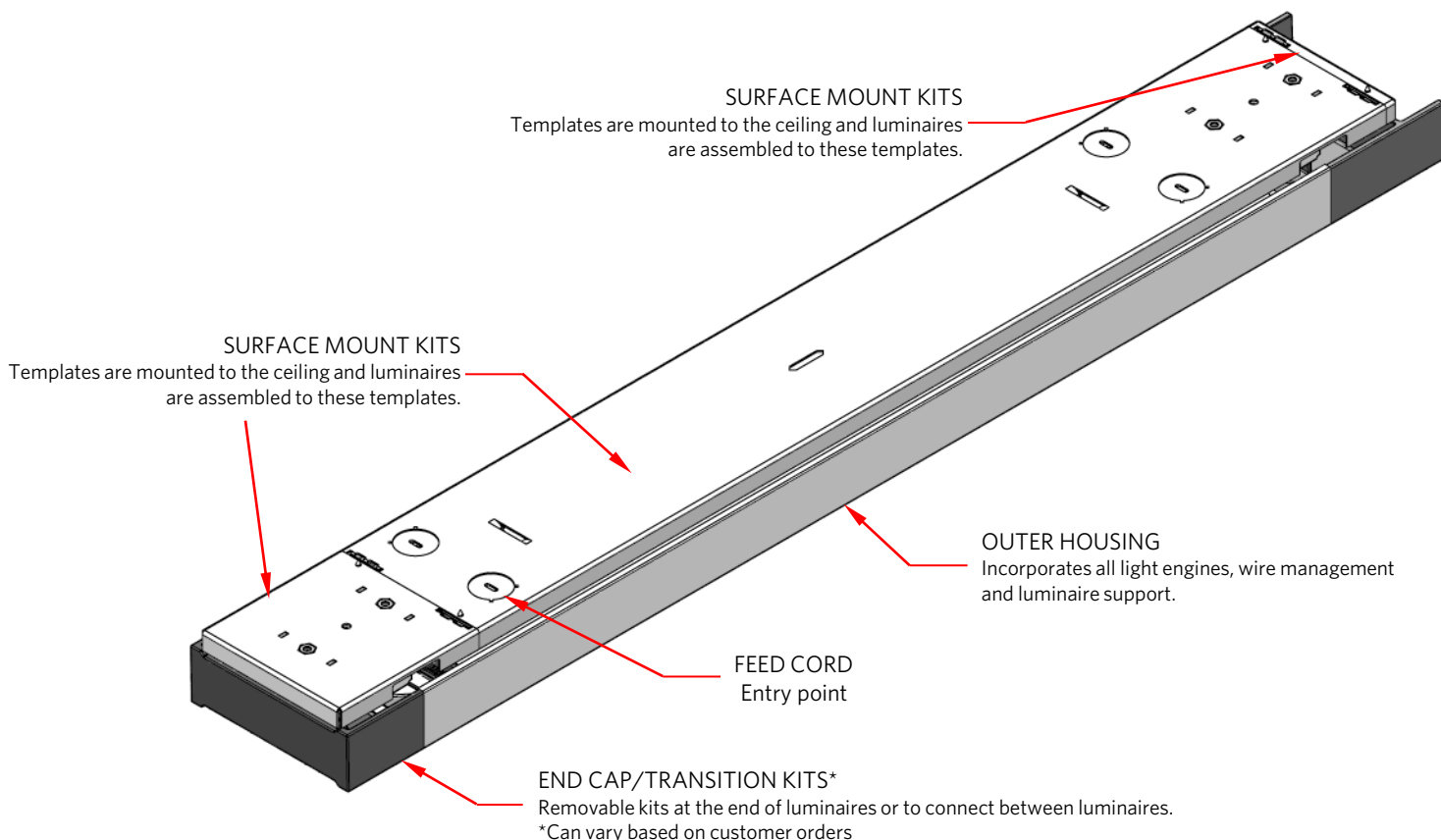
These installation instructions are used for installing the following luminaires and kits:

Luminaire	Mounting Kit	Endcap Kit	Head Unit
RNNAS	-	RNNASEP	-

WARNING: Please read the “important safety instructions” prior to installation of this product. The mounting instructions can be found inside the mounting kits or downloaded from <https://peerlesslighting.acuitybrands.com/Renna>

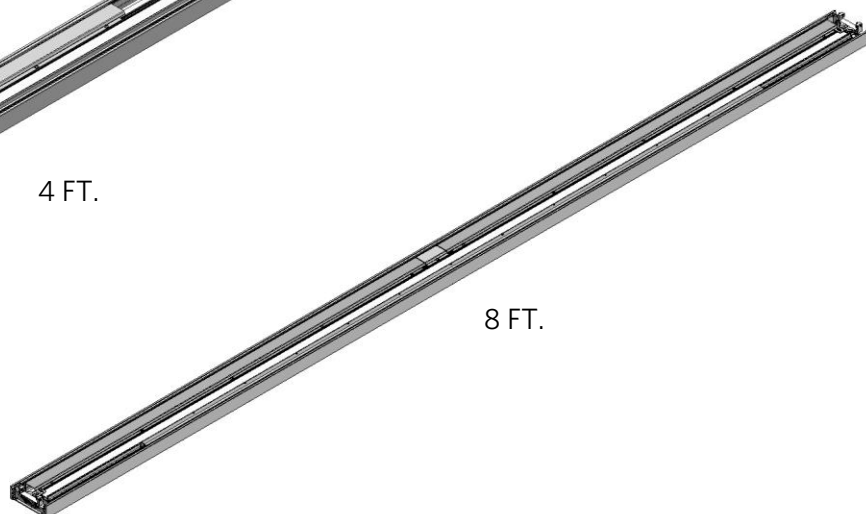
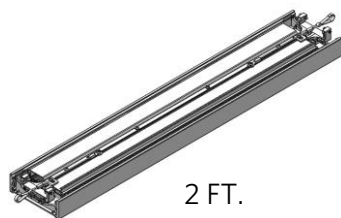
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A. Identification of Renna Luminaire

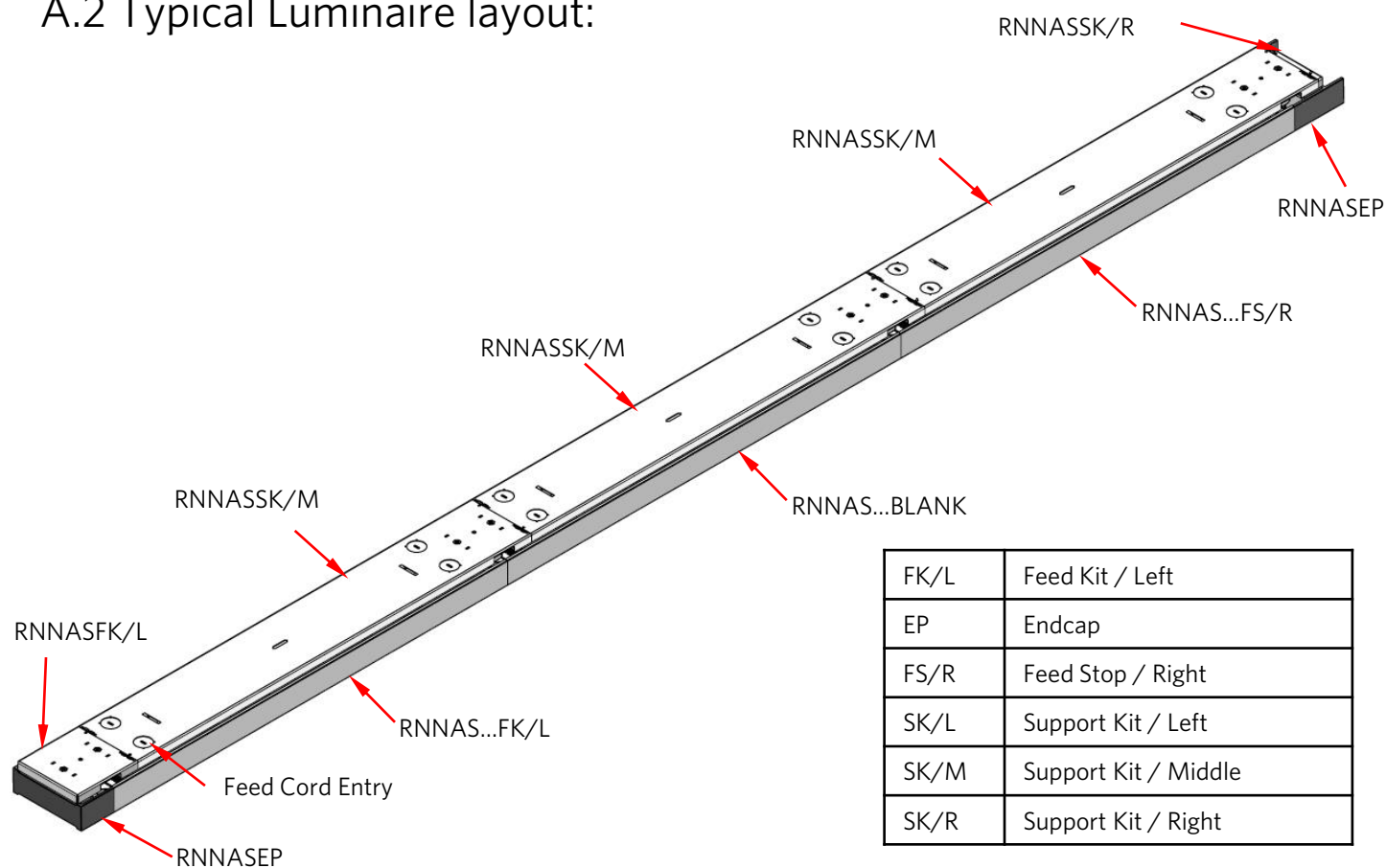


IMPORTANT: Wear cotton gloves AND lift and handle the luminaire from the ends to avoid damaging or soiling the lens surface. Should the lens surface become smudged or otherwise blemished, clean using only a soft, microfiber cotton cloth.

A.1 Types of Luminaire:

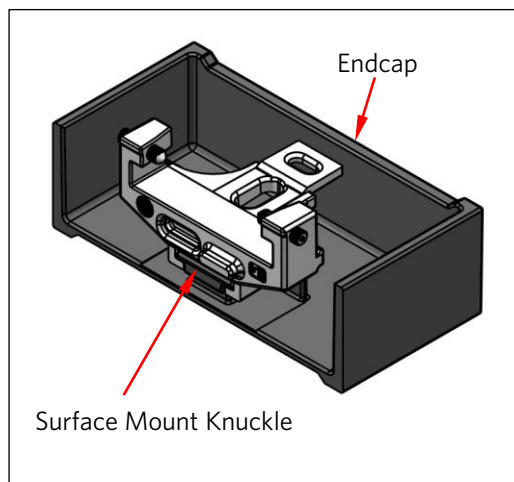


A.2 Typical Luminaire layout:



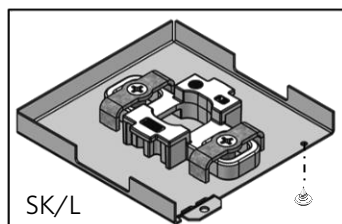
IMPORTANT: Each luminaire section must be paired with its corresponding driver enclosure. Look for matching numbers on the luminaire and head unit packaging boxes.

A.3 Endcap Kit – Surface Mount (RNNAS)



A.4 Mounting Kit – Surface Mount (RNNAS)

Feed Kit (FK) - Left



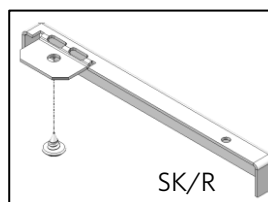
Support Kit



Feed Cord

Support Kit (SK) – Ceiling template + screw
Feed Kit (FK) – Ceiling template + screw + cord + bushing

Feed Kit (FK) - Right



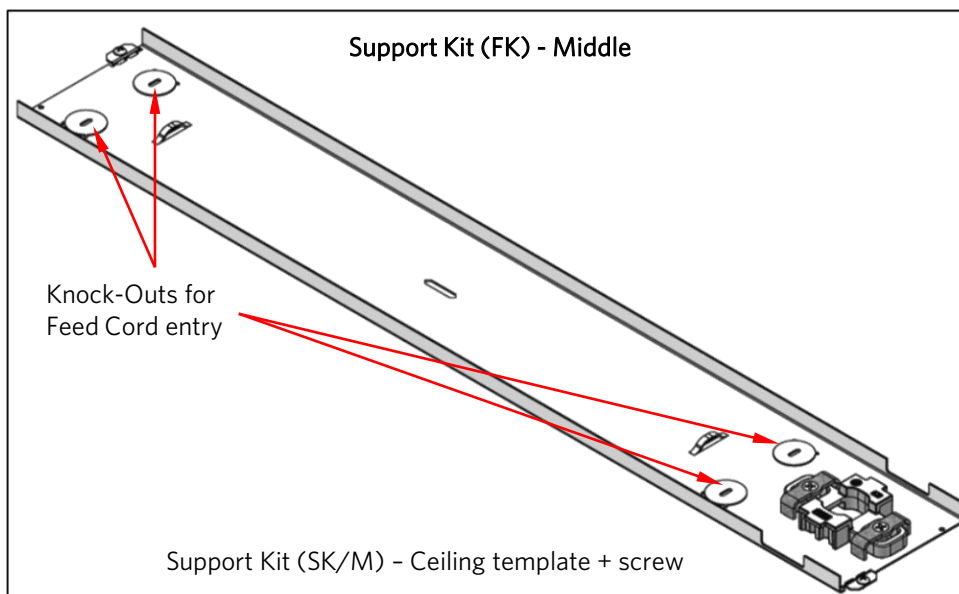
Support Kit



Feed Cord

Support Kit (SK) – Ceiling template + screw
Feed Kit (FK) – Ceiling template + screw + cord + bushing

Support Kit (FK) - Middle

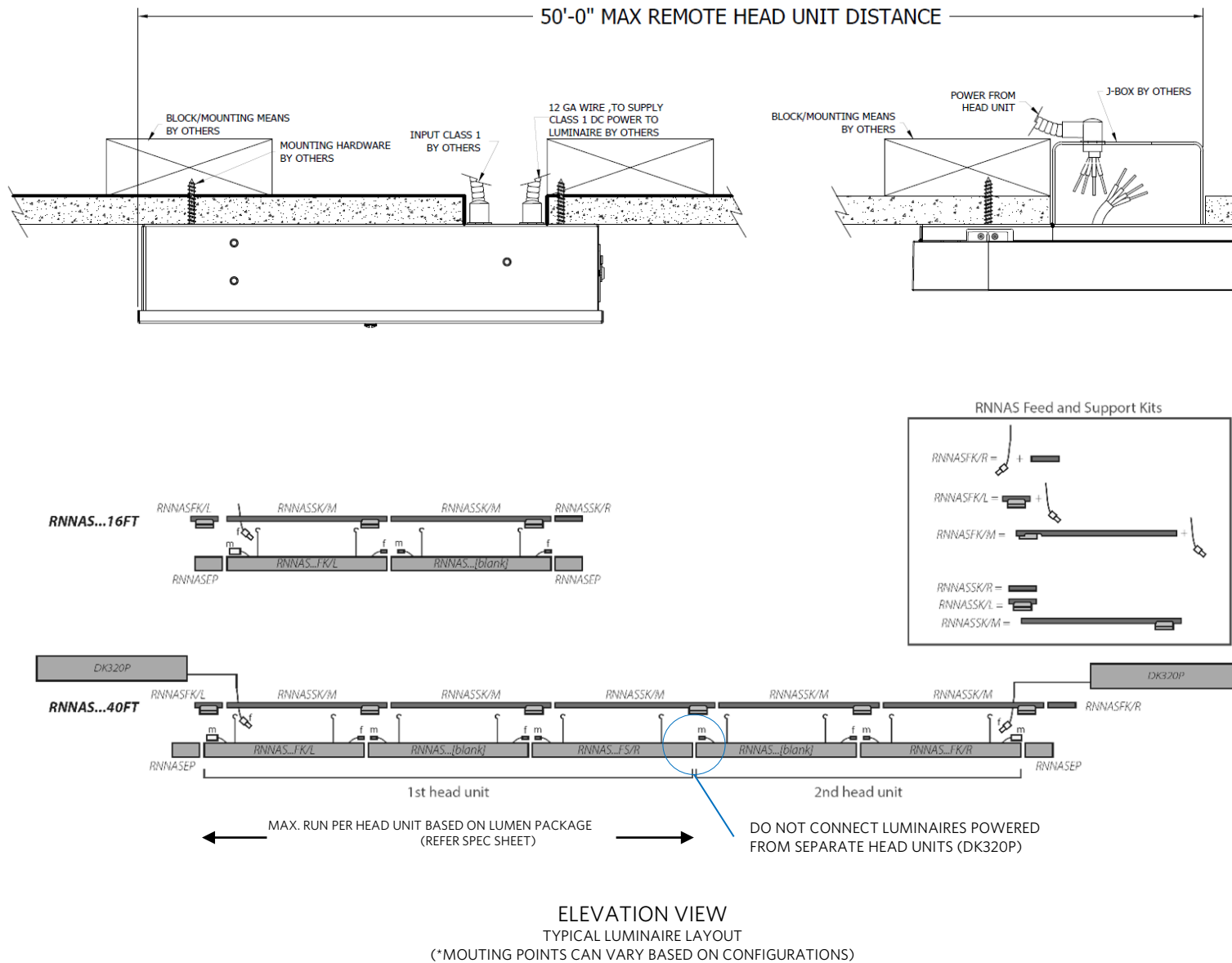


**Knock-Outs for
Feed Cord entry**

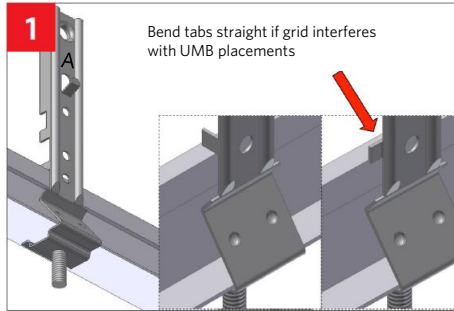
Support Kit (SK/M) – Ceiling template + screw

B. Overview of RNNAS Installation

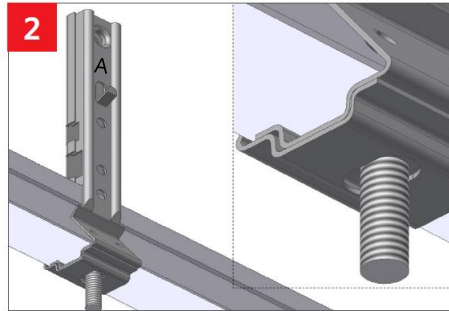
B.1 Overview of Installation for Hard Surface Ceiling (F2)



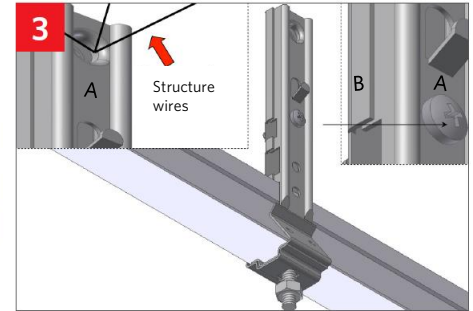
C. Support Kit Installation for Grid Ceilings (F1)



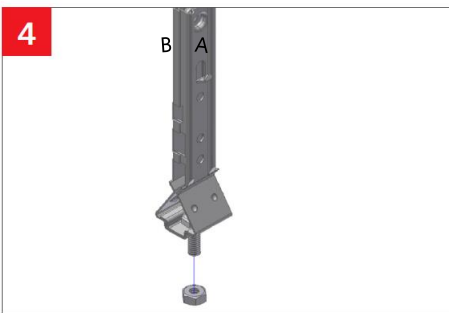
For On-Grid Installations follow steps C1-C3 then skip to Step C7: In an accompanying hardware box, locate a Universal Mounting Bracket (UMB). Insert bolt into bottom hole of Bracket A, then hook Bracket A onto grid.



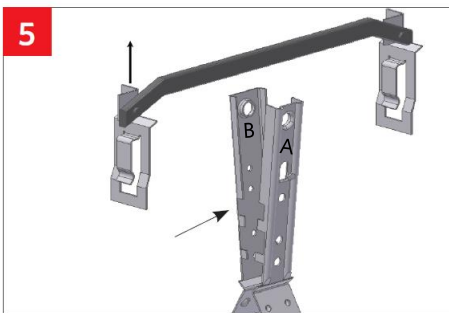
Hook Bracket B onto Bracket A. Letters are clearly marked on the UMB.



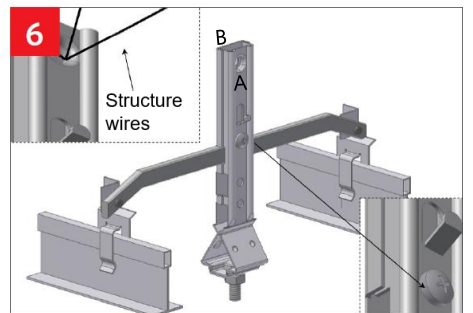
Adjust brackets to proper location along the ceiling grid then screw sides A to B together. Secure the brackets to the building structure per local building codes.



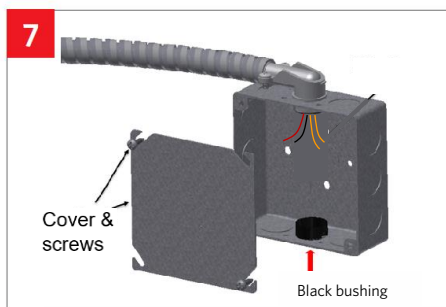
For Off-Grid Installations, skip steps C1-C3 begin here at Step C4: In an accompanying hardware box, locate a Universal Mounting Bracket (UMB). Insert bolt into Bracket A. Hook Bracket B onto Bracket A. Secure with nut (DO NOT TIGHTEN).



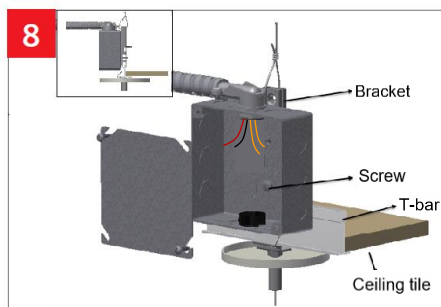
Slide hanger (by others) onto Caddy Bar and fit Caddy Bar into upper slots in the bracket.



Adjust brackets to proper location along the ceiling grid then screw sides A to B together. Secure the brackets to the building structure per local building codes.

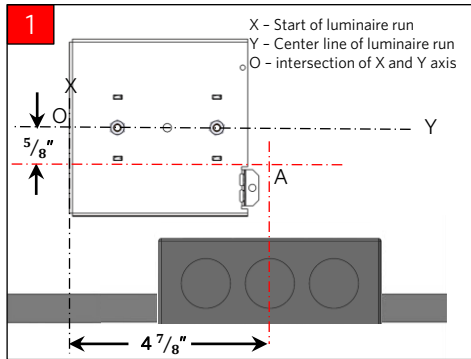


Locate the matching driver enclosure box for the luminaire section currently being installed. and screw J-box to bracket. Remove cover from provided J-box by unscrewing 2X #8 screws. Attach black bushing to J-Box.

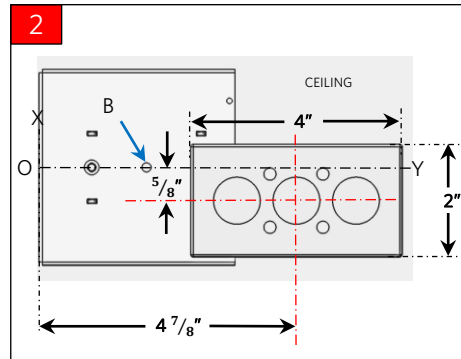


IMPORTANT: CONTRACTOR TO RUN MIN. 12GA WIRE THROUGH CODE-COMPLIANT METAL CONDUIT, MAX. 50. FT

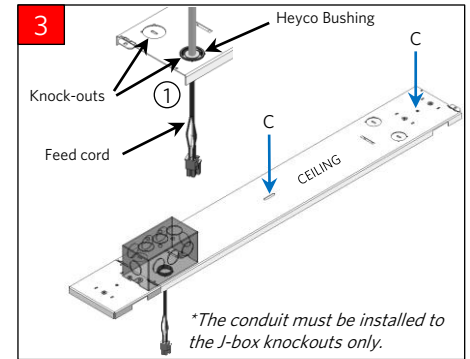
D. Luminaire Installation for Hard Surface Ceilings (F2)



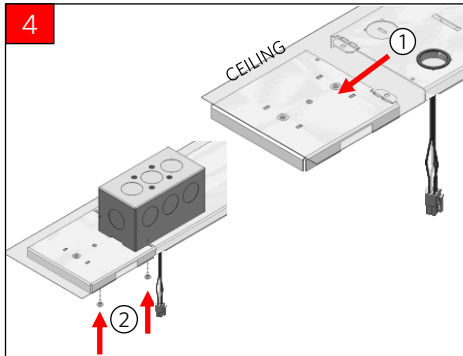
At power feed locations: Mark a distance of $4\frac{7}{8}$ " and $\frac{5}{8}$ " on the ceiling, from the start point and center line of linear run in 'X' and 'Y' axes respectively. Align the center of 2"X4" J-box and the intersection point 'A' and install it into the hard surface ceiling (by others). Ensure that the bottom edge of J-box is flushed with the ceiling level.



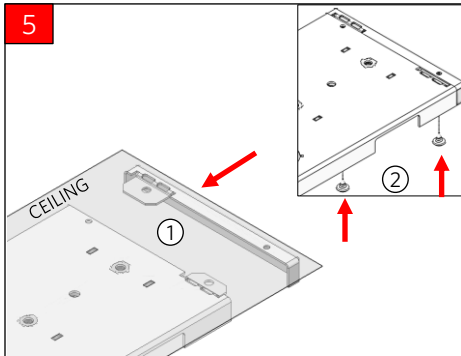
Flush the left template (FK/L) with the ceiling and align it with the X and Y axes as shown. Mark the hole position 'B' (noted with arrow). Locate the left template on 'O' and 'B' and drive a #8 dry wall screw at position 'B'; if needed, pre-drill a hole in the hard surface at position 'B'. TORQUE 8.2-9.2 in-lbs



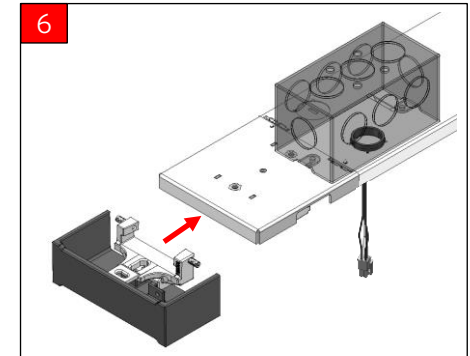
Take middle template (SK/M) and remove the knock-out that is near to the installer (this is above the luminaire wireway channel) aligned with the J-box center. Insert heyco bushing into the opening as shown and insert the feed cord through it ①. Flush the middle template with the ceiling and align it with left template. Mark the hole positions 'C' (noted with arrows) and pre-drill a hole, if needed.



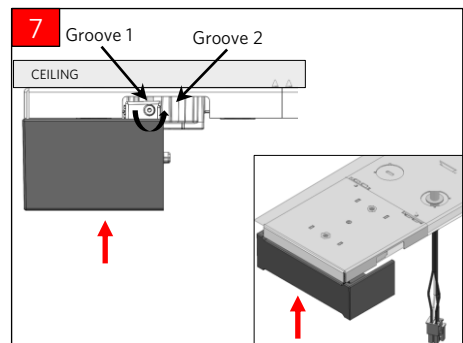
Slide the middle ceiling template towards the left template and align them using the tabs provided ①. Assemble both templates at tabs and their corresponding holes, using 2X #6-32 screws ②. Now, mount the middle template to the hard surface ceiling using #8 drywall screws (provided by others) through hole drilled in step F3. TORQUE 8.2-9.2 in-lbs



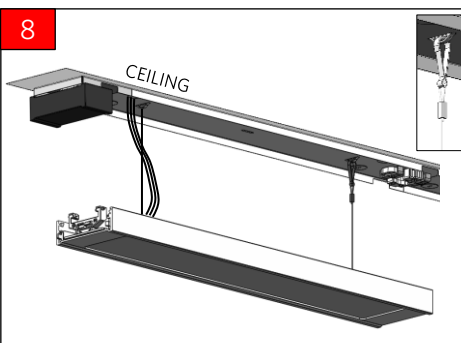
Keep adding the middle templates and repeat step F4 based on the layout. Slide the right ceiling template (SK/R) to the last middle template and align them using the tabs and their corresponding holes provided ①. Assemble both templates at tabs using 2X #6-32 screws ②. TORQUE 8.2-9.2 in-lbs



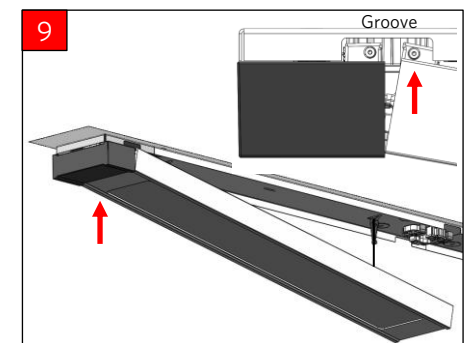
Retract the top 2X set screws of endcap kit until their cone tips are flushed with the inside surface of the knuckle arms. (Repeat this step for all the knuckle arms in the assembly). Slide the endcap kit towards the left template (FK/L) as shown.



Raise the endcap kit upwards in the groove 1 of the surface mount bracket. Tighten the 2X #8-32 set screws on both sides of the knuckle, using the allen key tool provided in the kit. Make sure that the knuckle set screws should be slightly tightened, so that final fastening can happen in a quarter-turn to half-turn of the set screws. TORQUE 4.2-5.8 in-lbs



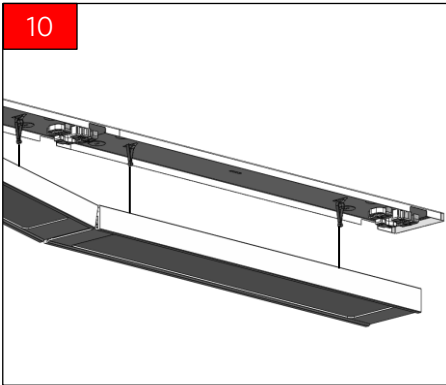
Align the luminaire with the middle ceiling template (SK/M). Connect the safety tether from the luminaire to the lances provided on the ceiling template (the luminaire will hang on the ceiling template through the safety tether). Complete the wire harness by connecting the feed cord to its mating connector on the bus board.



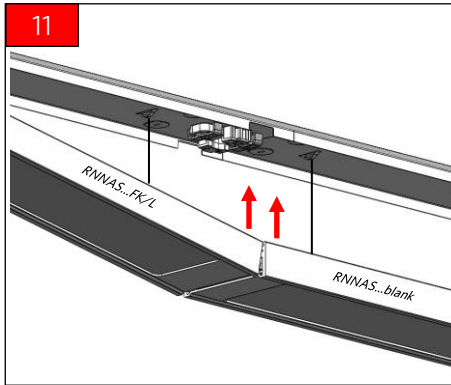
Place excess wires into the bus board compartment to avoid pinch points. Lift the luminaire on the side below the feed cord and tighten the 2X set screws slightly.

The image is an illustration to show one end of luminaire is connected with surface mount bracket and other end on the tether.

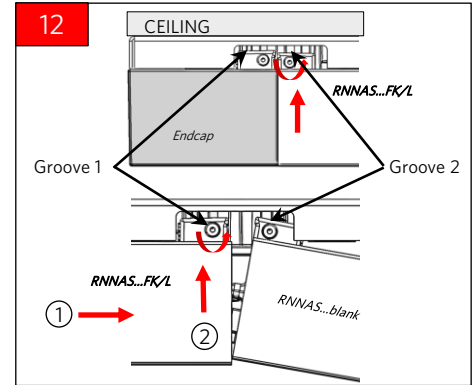
D. Luminaire Installation for Hard Surface Ceilings (F2)



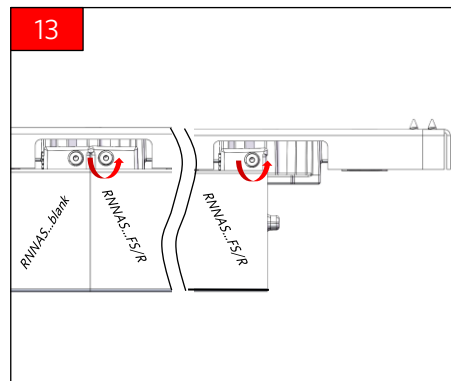
Align the next luminaire with the adjacent luminaire. Connect the safety tether from the next luminaire to the lances provided on the ceiling template (the luminaire will hang on the ceiling template through the safety tether). Complete the wire harness between the luminaires using the counterpart harness connector from the adjacent luminaires (for 2ft fixtures).



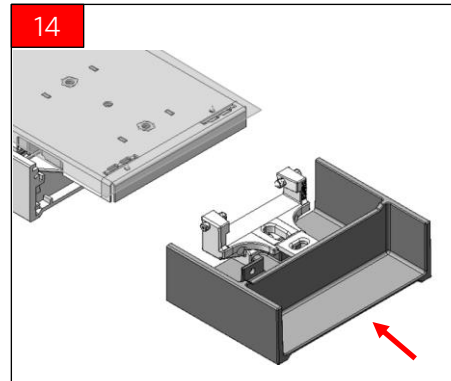
Here, the whole row of luminaire run can be tested (light test) even when the luminaires are hanging on the tethers. If the ceiling surfaces are not flat, there is fine tuning Z-adjustment capability at set screws, that would allow the installer to raise individual luminaires until the rows are straight. Once the testing is completed, lift both the luminaires from its edges towards the ceiling template as shown.



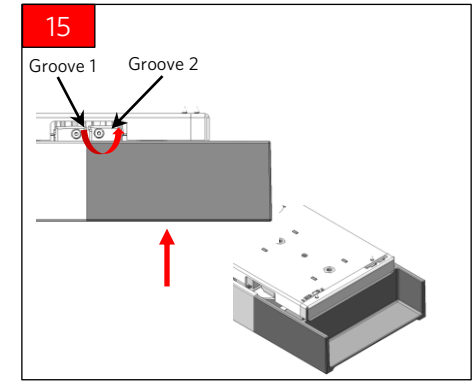
Slide and lift the luminaire into grooves of the surface mount brackets and tighten it using 4X #8-32 set screws on both ends and both sides of the luminaires using allen key tool provided. Ensure that the wires does not get pinched between surfaces while lifting. Make sure that the knuckle set screws should be slightly tightened, so that final fastening can happen in a quarter-turn to half-turn of the set screws. TORQUE 4.2-5.8 in-lbs



Repeat the same steps from D12 till the last luminaire is assembled in the luminaire run. Ensure that the wires does not get pinched between surfaces while lifting. Fasten the knuckle set screws to the surface mount brackets. TORQUE 4.2-5.8 in-lbs



Retract the top 2X set screws until their cone tips are flushed with the inside surface of the knuckle arms. Slide the endcap kit into groove-2 of the last surface mount bracket.



Raise the endcap kit upwards in the groove-2 of the surface mount bracket. Tighten the 2X #8-32 set screws on either sides of the knuckle, using the allen key tool provided in the kit. Ensure that the knuckle set screws should be slightly tightened, so that fastening can happen in a quarter turn to half-turn of the set screws. TORQUE 4.2-5.8 in-lbs

