**IMPORTANT SAFEGUARDS**

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

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS**

1. **DANGER** - Risk of shock. Disconnect power before installation.
   **DANGER** - Risque de choc – Couper l’alimentation avant l’installation.

2. This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician.  
   Ce produit doit être installé conformément à NEC ou votre code électrique local. Si vous n’êtes pas familier avec ces codes et ces exigences, veuillez contacter un électricien qualifié.

3. **SUitraLE FOR CONTINUOUS ROW MOUNTING.** 
   **PEUÊT ÊTRE MONTÉ EN RANGÉE CONTINUE.**

4. Make sure the equipment is properly grounded.

5. Always de-energize the circuit and/or equipment before connecting to, disconnecting from or servicing the equipment.

**SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

**NOTES:**
- It is the installers responsibility to ensure that all, ceiling or junction box is structurally capable of supporting the weight of luminaire/luminaire row.
- Hanging kit and Feed kit are shipped separately and are provided with the install instructions of the luminaire.
- To Prevent Luminaire Row From Over-Current: By adding the input current of each luminaire section marked on the luminaire, the total current per power feed must not exceed the maximum line wire amperage rating in the luminaire and the power feed cord/wire amperage rating whichever is least.

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**LUMINAIRE MOUNTING**

- DIRECT
- DIRECT / INDIRECT

**OFF GRID MOUNTING**

- SHEETROCK
- LATHE & PLASTER
- VARIOUS “HARD CEILINGS”

**ON GRID MOUNTING**

- 1” T-GRID
- 9/16” T-GRID
- SCREW SLOT GRID

---

**TO INSTALL:**

1. **STEP 1:**
   Determine mounting cable spacing centers see Figure 8 for individual mounting and Figure 9 for continuous row mounting.

2. **STEP 2:**
   Locate appropriate location for T-bar retaining clip onto T-bar, See Figure 1. Install T-bar retaining clips onto T-bar by:
   - Assemble 1/4-20 stud and T-bar retaining clip. Start stud into recessed square hole, grasp clip in hand and depress TAB A with thumb. Pull stud into place and release TAB A.
   - Separate clip into its two parts by bending at TAB B.
   - Place PART X on T-bar and insert base tab on part into slot. Close PARTS X and Y together locking with TAB C.
**STEP 3:**
Secure T-bar retaining clip to structural support above with minimum #12 gauge support wire in accordance with local codes. See Figure 2.

**STEP 4:**
Insert 1/16th galvanized steel cable supplied in kit through cable barrel and attach to 1/4-20 stud on T-bar retaining clip securely. Remove threaded cable barrel support ring from cable barrel and slide 2" non-feed canopy then cable barrel support ring over cable and up to finished ceiling line. Tighten cable barrel support ring to locate canopy in place. See Figure 2.

**STEP 5:**
Raise luminaire to cable assembly and route cable through the center of the cable glider, loosening the locking cap enough to allow cable to enter the adjustable cable fitting. Feed cable through the adjustable cable fitting until desired mounting height is attained. Luminaire will be retained at the last point of adjustment. Tighten locking cap onto Cable Glider.

**NOTE:** If it becomes necessary to re-adjust luminaire height, loosen locking cap and depress Cable Glider while adjusting to desired position.

**NOTE:** Be certain to support luminaire independently of cables when depressing Cable Glider.

**SECTION 2: ON GRID MOUNTING - FEED CABLE/CANOPY ASSEMBLY**

**STEP 1:**
Determine mounting cable spacing centers see Figure 8 for individual mounting and Figure 9 for continuous row mounting.

**STEP 2:**
Locate appropriate location for T-bar retaining clip onto T-bar, See Figure 1. Install T-bar retaining clips onto T-bar by:
- Assemble 1/4-20 stud and T-bar retaining clip. Start stud into recessed square hole, grasp clip in hand and depress TAB A with thumb. Pull stud into place and release TAB A.
- Separate clip into its two parts by bending at TAB B.
- Place PART X on T-bar and insert base tab on part into slot. Close PARTS X and Y together locking with TAB C.

**STEP 3:**
Install customer supplied junction box support bracket onto junction box. Attach Junction Box and Junction Box support bracket to T-bar retaining clip with 1/4-20 nut and bolt provided as shown in Figure 3.

**STEP 4:**
Attach the Junction Box and Junction Box support bracket with the T-bar retaining clip to structural support above with minimum #12 gauge support wire in accordance with local codes shown in Figure 3.

**STEP 5:**
Cut a 3/4" dia. hole in ceiling tile aligned with the bushing protruding from Junction Box. Insert 1/16th galvanized steel cable supplied in kit through cable barrel and attach to 1/4-20 stud on T-bar retaining clip securely. Remove threaded cable barrel support ring from coupler and slide 5" feed canopy then cable barrel support ring over cable and up to finished ceiling line. Tighten cable barrel support ring to locate canopy in place. See Figure 3.

**STEP 6:**
Raise luminaire to cable assembly and route cable through the center of the cable glider, loosening the locking cap enough to allow cable to enter the adjustable cable fitting. Feed cable through the adjustable cable fitting until desired mounting height is attained. Luminaire will be retained at the last point of adjustment. Tighten locking cap onto Cable Glider.

**NOTE:** If it becomes necessary to re-adjust luminaire height, loosen locking cap and depress plunger while adjusting to desired position.

**NOTE:** Be certain to support luminaire independently of cables when depressing plunger.

**STEP 7:**
Route feed cord from luminaire through bushing/cord restraints in canopy and junction box. See Figure 3. Attach supplied tie straps around feed cord at a minimum of 36" on center.
SECTION 3:
OFF GRID MOUNTING
NON-FEED CABLE/CANOPY ASSEMBLY

STEP 1:
Determine mounting cable spacing centers see Figure 8 for individual mounting and Figure 9 for continuous row mounting.

STEP 2:
Install 1/4-20 studs projecting from the finished ceiling line 1/2”. See Figure 4.

STEP 3:
Insert 1/16” galvanized steel cable supplied in kit through cable barrel and attach to 1/4-20 stud securely. Remove threaded cable barrel support ring from cable barrel and slide 2” non-feed canopy then cable barrel support ring over cable and up to finished ceiling line. Tighten cable barrel support ring to locate canopy in place. See Figure 4.

STEP 4:
Raise luminaire to cable assembly and route cable through the center of the cable glider, loosening the locking cap enough to allow cable to enter the adjustable cable fitting. Feed cable through the adjustable cable fitting until desired mounting height is attained. Luminaire will be retained at the last point of adjustment. Tighten locking cap onto Cable Glider. See Figure 4.

NOTE: If It Becomes Necessary To Re-Adjust Luminaire Height, Loosen Locking Cap And Depress Cable Glider While Adjusting To Desired Position.

NOTE: Be Certain To Support Luminaire Independently Of Cables When Depressing Cable Glider.

SECTION 4:
OFF GRID MOUNTING
FEED CABLE/CANOPY ASSEMBLY

STEP 1:
Determine mounting cable spacing centers see Figure 8 for individual mounting and Figure 9 for continuous row mounting.

STEP 2:
OPTION 1: Install customer supplied cross strap support bracket to junction box with customer supplied screws. Be sure junction box can support luminaire/luminaire row in accordance with local codes as illustrated.

OPTION 2: Drill a 5/16” dia hole in the roof of the junction box. Position and secure a 1/4-20 threaded rod (by others) to structural support above so that it passes through the hole drilled in the junction box and extends 1/2” below the finished ceiling line. See Figure 5.

STEP 3:
Insert 1/16” galvanized steel cable supplied in kit through supplied cable barrel and attach to 1/4-20 stud securely. Remove threaded cable barrel canopy support ring from coupler and slide 5” feed canopy and cable barrel support ring over cable and up to finished ceiling line. Tighten cable barrel support ring to locate canopy in place. See Figure 5.

STEP 4:
Raise luminaire to cable assembly and route cable through the center of the cable glider, loosening the locking cap enough to allow cable to enter the adjustable cable fitting. Feed cable through the adjustable cable fitting until desired mounting height is attained. Luminaire will be retained at the last point of adjustment. Tighten locking cap onto Cable Glider. See Figure 5.

NOTE: If it becomes necessary to re-adjust luminaire height, loosen locking cap and depress Cable Glider while adjusting to desired position.

NOTE: Be certain to support luminaire independently of cables when depressing Cable Glider.

STEP 5:
Route feed cord from luminaire through bushing/cord restraints in canopy and junction box. See Figure 5. Attach supplied tie straps around feed cord and cable at a minimum of 36” on center.
SECTION 5: INDIVIDUAL SUSPENDED LUMINAIRE MOUNTING – ST3-SD (SUSPENDED DIRECT) AND ST3-SI (SUSPENDED DIRECT AND INDIRECT)

STEP 1:
Determine mounting cable spacing centers, see Figure 8 on the next page.

STEP 2:
Install Hanging Kit and Feed Kit at cable spacing centers determined in Step 1 above. Depending on ceiling type follow appropriate instructions on pages 1-3.

STEP 3:
Suspend luminaire from suspension cable by:
- Loosen locking cap on cable glider plunger, insert non-feed suspension galvanized cable into Cable Glider while depressing plunger. Adjust cable to desired mounting height. Tighten cable locking cap/plunger. See Figure 6.
- Loosen locking cap on cable glider plunger, insert feed suspension cable into cable glider while depressing plunger. Adjust cable to desired mounting height. Tighten cable glider’s locking cap/plunger.

NOTE: Individual luminaires ship with power cord, 2 cable glider, and 2 endcaps installed by the factory.

STEP 4:
Bring cord from feed end of luminaire up to wiring box. Wire luminaire per Electrical Connection section.

SECTION 6: CONTINUOUS ROW SUSPENDED LUMINAIRE MOUNTING – ST3-SD (SUSPENDED DIRECT)

CAUTION: Do not attempt to assemble luminaire rows on the ground and then lift into position. This may create stress at the connection points and may result in damage and/or mechanical failure.

CAUTION: Do not connect power cord in a run to canopy and junction box until all of run is installed, wire harnesses connected, and luminaire joints completed.

STEP 1:
Determine mounting cable spacing centers, see Figure 9 on page 6.

STEP 2:
Install Hanging Kit and Feed Kit at cable spacing centers determined in Step 1 above. Depending on ceiling type follow appropriate instructions on pages 1-3.

STEP 3:
Remove lens and upper LED Reflector tray and set aside in order of run placement for reinstalling later. To remove lens, carefully slide a plastic card or putty knife between the lens and extrusion towards the end of the luminaire. Using the plastic card or putty knife, push the lens inward until the lens come free. See Figure 7 and 10.
LUMINAIRE ROW LAYOUT: SINGLE UNIT 2' - 12'

<table>
<thead>
<tr>
<th>Feet</th>
<th>2'</th>
<th>4'</th>
<th>6'</th>
<th>8'</th>
<th>10'</th>
<th>12'</th>
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<th>Hanger Kits</th>
<th>Total Length (in)</th>
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***NOTE: Suspended mount luminaries have cable mounting holes 1/2" from end cap***
## LUMINAIRE ROW LAYOUT: EXAMPLE OF A THREE UNIT 20’ - 24’ (CAN BE MOUNTED IN OTHER CONFIGURATIONS)

### 20’ FIXTURE

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**Total Row Length (m) Endcap To Endcap**

- **240 1/4” End-Cap To End-Cap**

### 24’ FIXTURE

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</table>

**Total Row Length (m) Endcap To Endcap**

- **288 1/4” End-Cap To End-Cap**

**Consists of:**
- **QTY 3 - Runner Luminaires (4FT, 6FT, OR 8FT) - Each With Female and Male Ends**
- **QTY 1 - Endcap Kit - Comes With 2 Endcaps, Female Joiner Bracket, and Hardware**
- **QTY 3 - Hanger Kits - Comes With Aircraft Cable, Canopy Kit, and Ceiling Mount Hardware**
- **QTY 1 - Feed Kit - Comes With Aircraft Cable, Canopy Kit, Power Cord, and Ceiling Mount Hardware**

**Direct Lens, Reflector and LED Assembly - Remove to Install**
**STEP 4:**
After removing the lens, remove the Philips head reflector screws, remove the LED Reflector Tray, and disconnect the LED harness. Set lens and LED Reflector tray aside. See Figure 10.

**STEP 5:**
Install The Endcap Kit And Cable Glider On The First Luminaire.

**NOTE:** Each luminaire has a male and female end. The joining bracket, joining hardware, and male alignment pins are pre-installed. Each luminaire has a cable glider installed on the male luminaire end. See Figure 11.
- Locate the first luminaire in the run. It is recommended to start at the non-feed end and work towards the feed location. This will ensure all luminaires are mounted with wiring and mechanical joints secured before wiring.
- Attach a cable glider to the female end of the luminaire. Insert the cable glider into the through hole in the top of the extruded housing. From the inside of the luminaire secure the cable glider with the keps locknut provided. See Figure 12.
- The female end of the luminaire will be the start of the run and get the endcap attached. Attach the endcap to the female end. Secure the endcap to the luminaire’s female joiner bracket from the inside of the housing with 2 provided keps locknuts. See Figure 12.

**STEP 6:**
Suspend luminaire from suspension cable by loosening the locking cap on the cable glider plungers, insert suspension cables into cable glider while depressing plungers. Adjust cables to desired mounting height. Tighten cable glider’s locking caps/plungers.

**STEP 7:**
Install 2nd Luminaire In Run.
- Join the wire connectors of the second luminaire. Attach the female end of the second luminaire to the male end of the first luminaire. Locate the 4 alignment pins then ensure the second luminaire lines up. Two threaded inserts on the male end of the first luminaire go through the female joiner bracket on the second luminaire. Secure the 2 luminaires together with the 2 provided keps locknuts. See Figure 11.
- Loosen locking caps on the cable glider plunger, insert suspension cable into cable glider while depressing plunger. Adjust cable to desired mounting height. Tighten cable glider’s locking cap/plunger.

**STEP 8:**
If run is more than 2 luminaires repeat Step 7 with each luminaire. If this is the last luminaire in the run proceed to Step 9.
STEP 9:
On the last luminaire in the run remove the male joiner bracket from the end of the run by loosening the 2 keps nuts inside the luminaire. See Figure 11.

STEP 10:
On the last luminaire in the run install the power cord. Remove the plastic plug on the top of the housing and route the cord through the hole and secure it with the provided strain relief. See Figure 13. Cut off the connector on the end of the luminaire wire harness and wire the cord to the luminaire per the Electrical Connection section.

STEP 11:
On the last luminaire in the run install the female joiner bracket using 2 keps locknuts and endcap (provided in the end cap kit) onto the end of the luminaire using 2 keps locknuts. See Figure 13.

STEP 12:
Reconnect the LED harness and replace the LED Reflector Trays that were removed in Step 3. Ensure that no wires are pinched.

STEP 13:
Route the cord through the canopy and into the junction box. Make wiring connections per the Electrical Connection section.

SECTION 7:
CONTINUOUS ROW SUSPENDED LUMINAIRE MOUNTING – ST3-SI (SUSPENDED INDIRECT/DIRECT)

CAUTION: Do not attempt to assemble luminaire rows on the ground and then lift into position. This may create stress at the connection points and may result in damage and/or mechanical failure.

CAUTION: Do not connect power cord in a run to canopy and junction box until all of run is installed, wire harnesses connected, and luminaire joints completed.

STEP 1:
Determine mounting cable spacing centers, see Figure 9 on page 6.

STEP 2:
Install Hanging Kit and Feed Kit at cable spacing centers determined in Step 1 above. Depending on ceiling type follow appropriate instructions on pages 1-3.

STEP 3:
Remove the Indirect LED Reflector Tray and set aside in order of run placement for reinstalling later. To remove the Indirect LED Reflector Tray remove the screws. After removing the screws, disconnect the LED harness. See Figure 14.
STEP 4: Install The Endcap Kit And Cable Glider On The First Luminaire.

**NOTE:** Each luminaire has a male and female end. The joining bracket, joining hardware, and male alignment pins are pre-installed. Each luminaire has a cable glider installed on the male luminaire end. See Figure 15.

- Locate the first luminaire in the run. It is recommended to start at the non-feed end and work towards the feed location. This will ensure all luminaires are mounted with wiring and mechanical joints secured before wiring.
- Attach a cable glider to the female end of the luminaire. Mount a cable glider into the female cable glider bracket. Using 4 supplied screws, screw the bracket into the extrusion so the end of the bracket is flush with the end of the extrusion. See Figure 16.
- The female end of the luminaire will be the start of the run and get the endcap attached. Attach the endcap to the female end. Secure the endcap to the luminaire’s female joiner bracket from the inside of the housing with 2 provided keps locknuts. See Figure 16 and 17.

STEP 6: Suspend luminaire from suspension cable by loosening the locking cap on the cable glider plungers, insert suspension cables into cable glider while depressing plungers. Adjust cables to desired mounting height. Tighten cable glider’s locking caps/plungers.

STEP 7: Install 2nd Luminaire In Run.

- Join the wire connectors of the second luminaire. Attach the female end of the second luminaire to the male end of the first luminaire.
- Locate the 4 alignment pins then ensure the second luminaire lines up. Two threaded inserts on the male end of the first luminaire go through the female joiner bracket on the second luminaire. Secure the 2 luminaires together with the 2 provided keps locknuts. See Figure 15.
- Loosen locking cap on the cable glider plunger, insert suspension cable into cable glider while depressing plunger. Adjust cable to desired mounting height. Tighten cable glider’s locking cap/plunger.

STEP 8: If run is more than 2 luminaires repeat Step 7 with each luminaire. If this is the last luminaire in the run proceed to Step 9.

STEP 9: On the last luminaire in the run remove the male joiner bracket from the end of the run by loosening the 2 keps nuts inside the luminaire. Also remove the male glider bracket and cable glider from the male end of the run by removing the 2 screws. Replace the male glider bracket with the smaller, female glider bracket and glider using the 4 screws provided in the end cap kit. See Figure 16.
STEP 10:  
On the last luminaire in the run install the power cord. Remove the plastic plug on the top of the housing and route the cord through the hole and secure it with the provided strain relief. See Figure 14. Cut off the connector on the end of the luminaire wire harness and wire the cord to the luminaire per the Electrical Connections section.

STEP 11:  
On the last luminaire in the run install the female joiner bracket using 2 keps locknuts and endcap (provided in the end cap kit) onto the end of the luminaire using 2 keps locknuts. See Figure 17.

STEP 12  
Reconnect the LED harness and replace the LED Reflector Trays that were removed in Step 3 above. Ensure that no wires are pinched.

STEP 13:  
Route the cord through the canopy and into the j-box (See section 2 & 4). Make wiring connections per the Electrical Connections section. See Figure 13.

SECTION 8: ELECTRICAL CONNECTIONS

STEP 1:
For 120/277/347V applications make the following Electrical Connections:

a. Connect the black luminaire lead to the supply lead.

b. Connect the white luminaire lead to the neutral supply lead.

c. Connect the green or green/yellow ground lead to the green supply lead.

For 208/240V applications, make the following Electrical Connections:

a. Connect Hot 1 supply lead to the black lead.

b. Connect Hot 2 supply lead to the white lead.

c. Connect the green or green/yellow ground lead to the supply ground lead.

STEP 2:

a. If applicable, the dual feed option comes with the indirect switched Hot connected to the red luminaire lead. Connect the red luminaire lead to indirect switched Hot supply lead. If not being used, ensure to cap off red leads.

b. If Dimming is an option; connect the violet dimming positive lead to the supply dimming positive lead. If dimming is not being used, ensure to cap off the violet lead. For dual feed indirect positive dimming lead is blue.

c. If Dimming is an option; connect the grey dimming negative lead to the supply dimming negative lead. If dimming is not being used, ensure to cap off the grey lead. For dual feed indirect negative dimming lead is blue/white.

FCC NOTICE

CAUTION: Changes or modifications not expressly approved could void your authority to use this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: [1] This device may not cause harmful interference, and [2] this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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