

LED Lighting Fixture

SAVE THESE INSTRUCTIONS



BEFORE YOU BEGIN

Read and follow all safety instructions



WARNING

RISK OF FIRE, EXPLOSION AND ELECTRIC SHOCK

- This product should be installed, inspected, and maintained by a qualified electrician only, in accordance with the NEC (National Electric Code) and all local codes.
- This person should be familiar with the construction and operation of the product and the hazards involved.
- This light is for outdoor use and should not be used in areas of limited ventilation or high ambient temperature.
- Turn off electrical power before inspection, installation or removal.
- Disconnect the power by turning off the circuit breaker - turning the power off by using a light switch is not sufficient to prevent electrical shock.
- Make sure the fixture is cool to the touch before performing maintenance.



Prepare Electrical Wiring



Electrical Requirements

- The fixture must be supplied with a voltage within the specified rating on the product label.
- The fixture must be connected to an individual, grounded branch circuit protected by a properly sized circuit breaker.
- Only use UL (or other NRTL) approved wire for supply connections - minimum 18 AWG, 75°C rated supply wire (or 14 AWG for continuous runs).



Grounding Instructions

- The grounding and bonding of the overall system shall be done in accordance with NEC Article 600 and local codes.

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Installation Guide

Preparation



CAUTION:

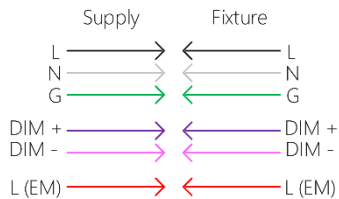
Ensure the branch supply power is shut off at the breaker panel before continuing with the installation.

- Ensure there is no visible damage to the fixture housing, accessories or electrical wires.
- Refer to the **Assembly** section for labeled callouts of main components.
- Refer to the **Accessory** section for the components included with your specific mounting kit.
- Refer to the **Mount Spacing** section for specific spacing dimensions. Be sure all measurements are precise for an easy installation. Determine and clearly mark all mounting locations prior to starting the installation.
- All fixtures are pre-wired for input power on one side of the fixture. This side is labeled “AC Input”, and will be referred to as **Side A** of the fixture throughout this document. The other end of the fixture will be referred to as **Side B**.
- This installation requires a minimum of two (2) people to reduce risk of injury and/or damage to the fixture(s). Continuous runs longer than 8’ or greater than two (2) fixtures requires a minimum of three (3) people.

Single Fixture: Hard Ceiling Mount

1. Pull the **End Caps** off of the fixture. [Figure 1]
2. Carefully pull the available length of **Driver Harness** wires out of Side A. [Figure 2]
3. Remove the **Cable Plug** and insert the **Power Cable**, feeding the quick disconnects through the hole. [Figure 3]
4. Snap the **Strain Relief Bushing** of the Power Cable into the hole.
5. Mate the Driver Harness, Power Cable, and **Starter Harness** connectors. Push the connectors and extra lengths of wire back into the fixture.

Note: For fixtures with emergency backup, mate the single wire connector from the fixture to the Power Cable connector.



6. Remove the small rubber plug at each end of the fixture and install the **Mounting Cables**. Secure with the 1/4" lock nuts and replace the End Caps. [Figure 4]
7. Remove the **Threaded Insert** from the Mounting Cable attached to Side A and pull the **Aircraft Cable** through the center hole of **Canopy A**. [Figure 5]
8. Assemble the **Mounting Bracket** and **Aircraft Cable Grip** with the Threaded Insert removed in the previous step. Secure the end of the Aircraft Cable with the Aircraft Cable Grip. [Figure 6]
9. Feed the Power Cable through the grommeted hole of Canopy A.
10. Drill a hole at the mounting point marked for Side B. A 13/16" drill bit is recommended.

Note: Refer to the *Mount Spacing* section to determine the proper location for this hole.

11. Remove the **Threaded Insert** from the Mounting Cable attached to Side B.
12. Install the Toggle Bolt Assembly with the other Threaded Insert removed in the previous step. [Figure 7]
13. Lift the fixture and mount Side A. Secure the Mounting Bracket to the junction box using the provided screws or screws suitable for the junction box. [Figure 8]

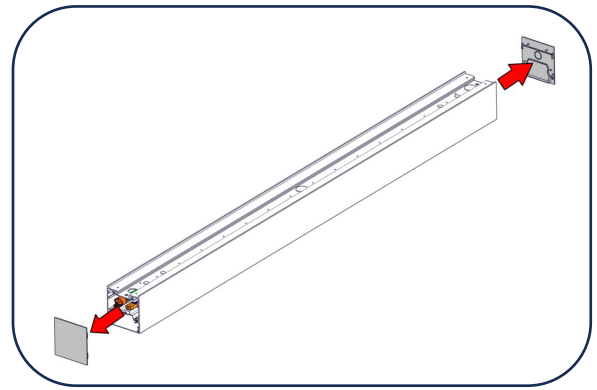


Figure 1

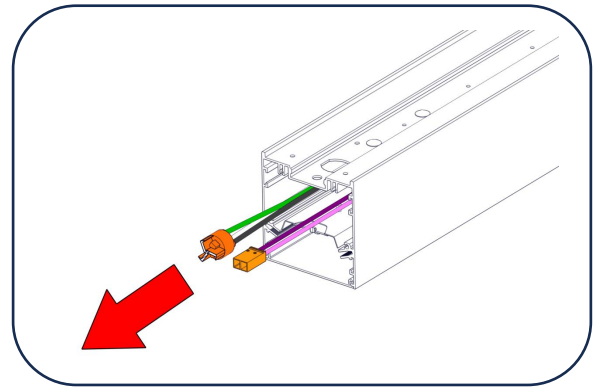


Figure 2

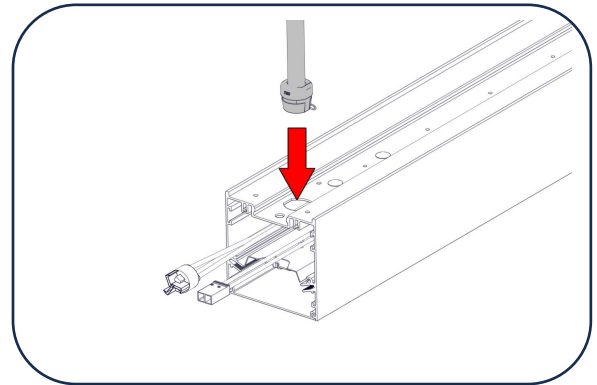


Figure 3

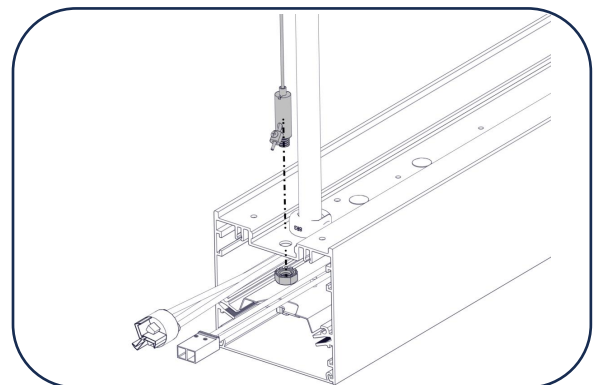


Figure 4

14. Mount Side B by securing **Canopy B** to the pre-installed Threaded Insert with the Threaded Base of the Cable Support.



Do not let the fixture freely hang until both Cable Supports are completely installed and secure.

15. Adjust the Aircraft Cables as needed to the desired fixture height and use a level to find the “true horizontal”.

Note: Refer to the *Adjustments* section for further detail.

16. Place Canopy A against the ceiling and push the cable slack into the junction box. Mark the cable where it meets the bottom of the canopy. Install the **Cable Clamp** above the canopy and approximately ¼” above the mark to eliminate slack on the Power Cable.

Note: Depending on the length of fixture suspension, the Power Cable may need to be cut and stripped to avoid overfilling the junction box.

17. Make the wire connections to the building wiring using the included wire nuts.
18. Push the wire connections into the junction box and secure Canopy A to the ceiling with the Threaded Base of the Mounting Cable.
19. Restore branch supply power and ensure the fixture functions properly. If the fixture does not turn on or function properly, shut off the branch supply power and check all electrical connections.

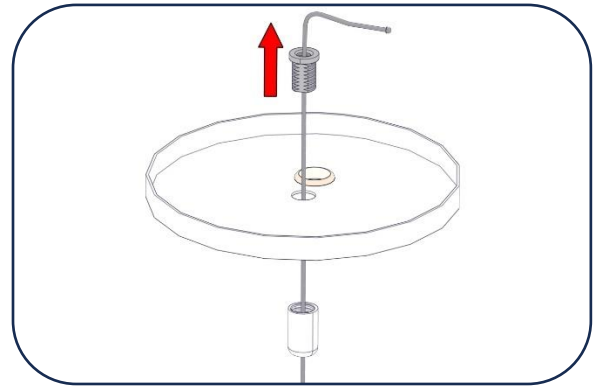


Figure 5

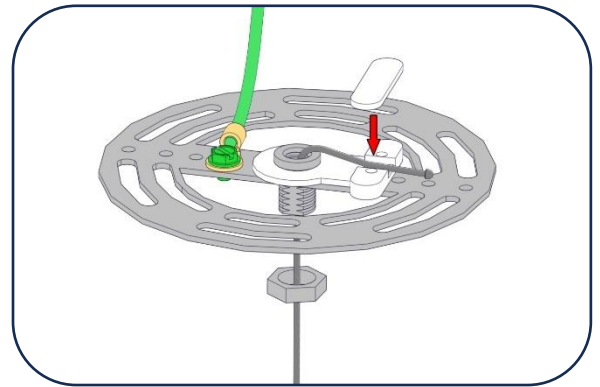


Figure 6

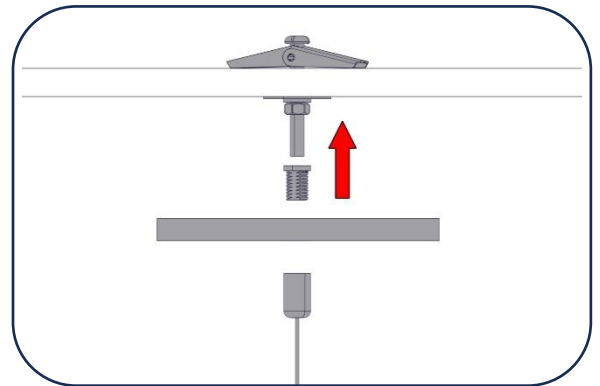


Figure 7

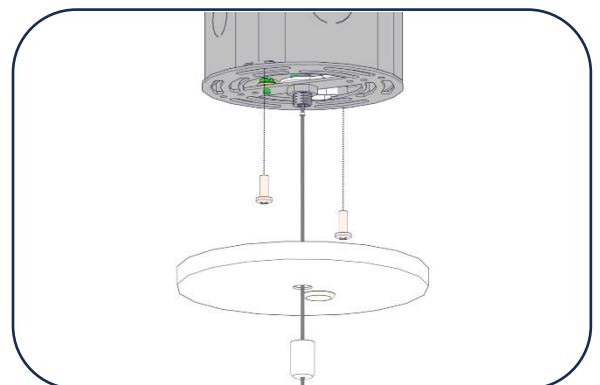
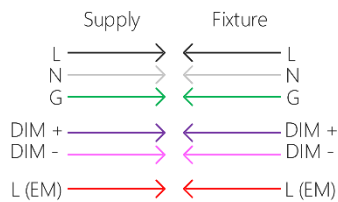


Figure 8

Single Fixture: Drop Ceiling Mount

1. Pull the **End Caps** off of the fixture. [Figure 1]
2. Carefully pull the available length of **Driver Harness** wires out of Side A. [Figure 2]
3. Remove the **Cable Plug** and insert the **Power Cable**, feeding the quick disconnects through the hole. [Figure 3]
4. Snap the **Strain Relief Bushing** of the Power Cable into the hole.
5. Mate the Driver Harness, Power Cable, and **Starter Harness** connectors. Push the connectors and extra lengths of wire back into the fixture.

Note: For fixtures with emergency backup, mate the single wire connector from the fixture to the Power Cable connector.



6. Remove the small rubber plug at each end of the fixture and install the Mounting Cables. Secure with the 1/4" lock nuts and replace the End Caps. [Figure 4]
7. Install the **Ceiling Hangers** at the pre-determined locations on the ceiling grid. [Figure 5]

Note: One of the Ceiling Hangers must be installed near a junction box for wiring Side A.

Note: Refer to the *Mount Spacing* section to determine the proper distance between each hanger.

8. Fit Canopy A over the over the exposed thread of the Ceiling Hanger installed for Side A and mark the ceiling tile where the Power Cable will pass through. [Figure 6]
9. Set aside Canopy A and remove the marked ceiling tile. At the mark, make a 1" hole and replace the ceiling tile.
10. Lift the fixture and fit each canopy over the exposed thread of the hangers. Secure the canopies to the hangers with the Threaded Adaptors of the Mounting Cables. [Figure 7]

Note: Side A should be mounted using Canopy A. Canopy A should be oriented so the Power Cable can pass through both the grommated hole of the canopy and ceiling tile that was modified in the previous step.

Note: Side B should be mounted using Canopy B.



Do not let the fixture freely hang until both Mounting Cables are completely installed and secure.

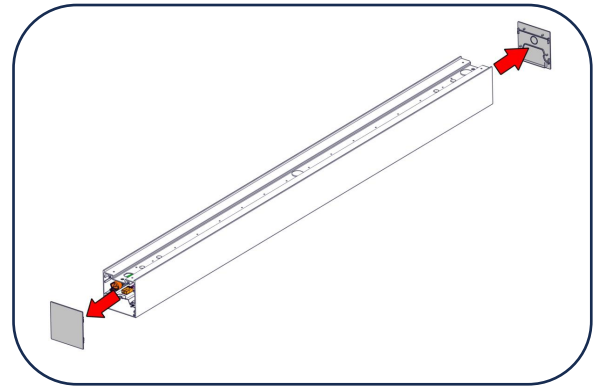


Figure 1

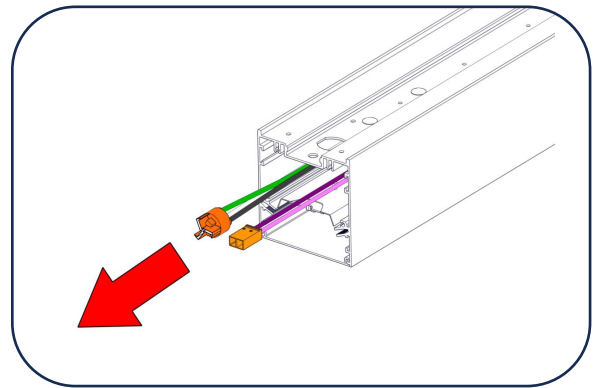


Figure 2

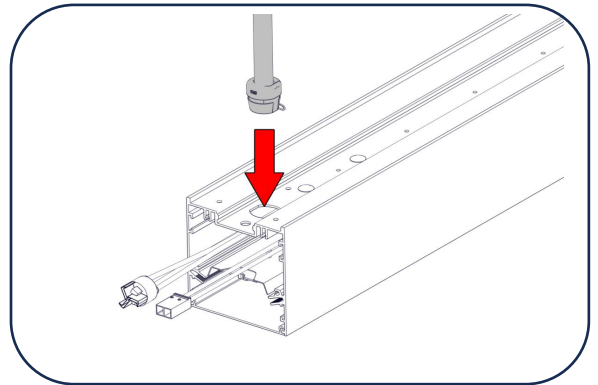


Figure 3

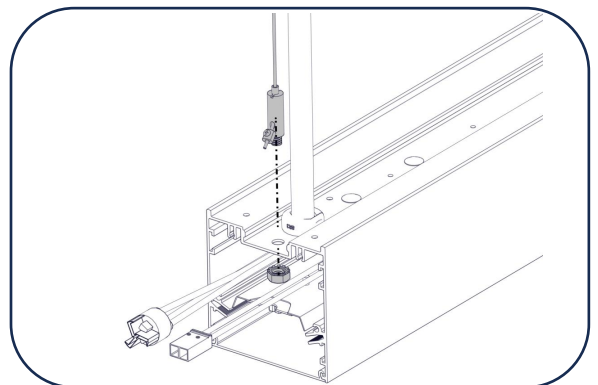


Figure 4

11. Adjust the Aircraft Cables as needed to the desired fixture height and use a level to find the “true horizontal”.
Note: Refer to the *Adjustments* section for further detail.
12. Remove the ceiling tile adjacent to the one modified in step 8 for access to the junction box.
13. Pull the Power Cable through the grommated hole of Canopy A and into the ceiling.
14. Install the **Cable Clamp** approximately ¼” above Canopy A and the ceiling tile to eliminate slack on the Power Cable.
15. Make the wire connections to the building wiring using the included wire nuts.
16. Replace the ceiling tile removed in step 11.
17. Restore branch supply power and ensure the fixture functions properly. If the fixture does not turn on or function properly, shut off the branch supply power and check all electrical connections.

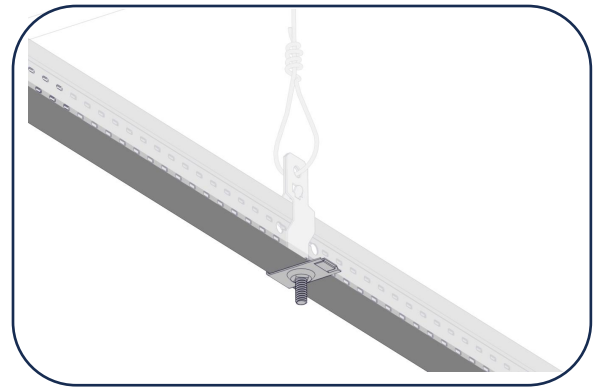


Figure 5

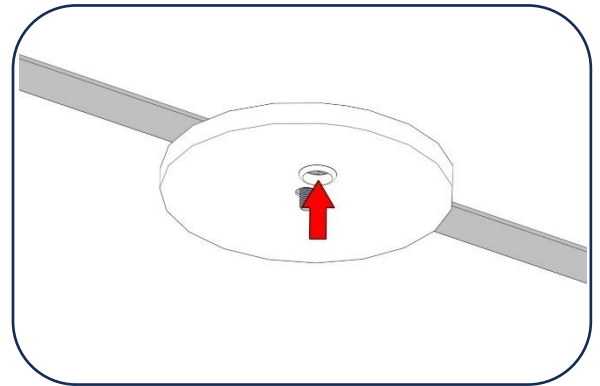


Figure 6

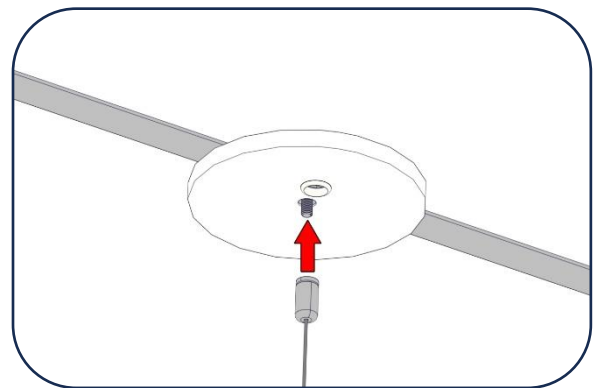


Figure 7

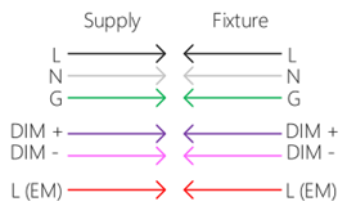
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Single Fixture: Stem Mount

1. Determine the location of the supply power drop. A recessed junction box with the incoming power feed must be installed here.
2. Determine the second mounting point. It can be a junction box or a location directly on the ceiling.

Note: Refer to the *Mount Spacing* section for specific spacing dimensions.

3. Begin assembling a ceiling mount using a **Mounting Bracket**, **Stem Holder**, and ½" lock nut. [Figure 1]
 4. Feed the **Power Cable** through a **Stem**. The Stem should be oriented so that the quick disconnects of the Power Cable exit the male threading. [Figure 2]
 5. Install additional Stems by threading them together. If only using a single Stem, skip to the next step. [Figure 2]
- Note: Feed the end of the Power Cable through each added Stem.
6. Feed the Power Cable through the center hole of a **Canopy C** and the ceiling mount assembly from step 3.
 7. Make the wire connections to the building wiring using the included wire nuts. Push any extra length of wire into the junction box.



8. Use the **Cable Clamp** to reduce strain on the Power Cable, leaving at least 1 – 2 inches of the cable jacket above the clamp.
9. Install the assembled ceiling mount to the junction box using the provided screws or screws suitable for the junction box.

Note: Side A of the fixture will be installed to this mount.

10. Secure Canopy C to the ceiling mount with the Stem. [Figure 3]
11. Assemble the other **Mounting Bracket**, **Stem Holder**, and ½" lock nut.
12. Install the assembled ceiling mount at the second mounting point and attach the other Canopy C to this ceiling mount. Use a Stem, equal in length to the first, to secure it.
13. Pull the **End Caps** off of the fixture. [Figure 4]

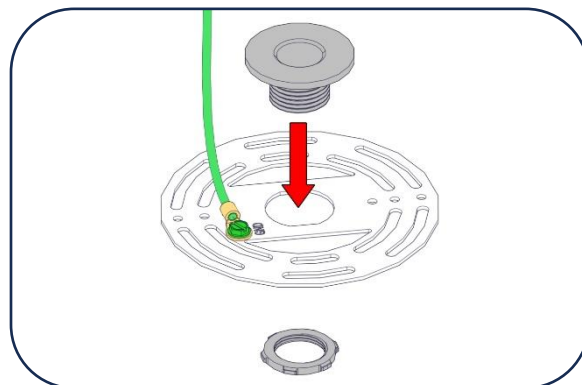


Figure 1

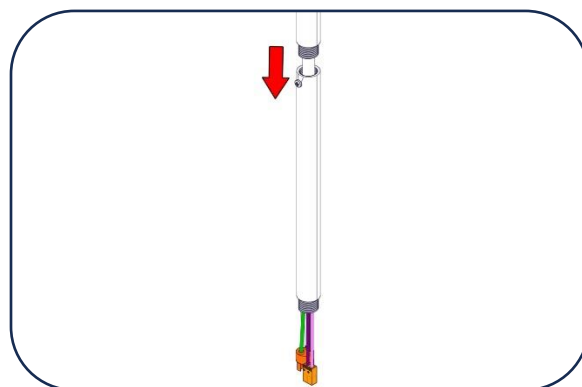


Figure 2

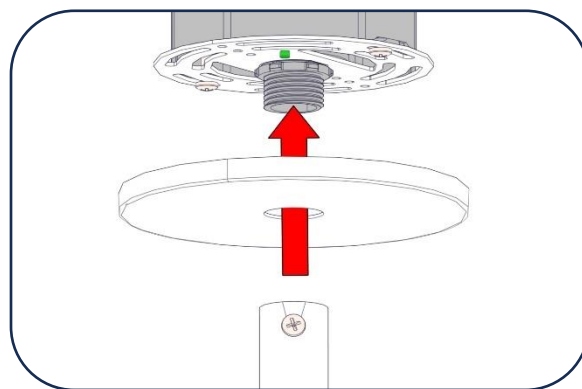


Figure 3

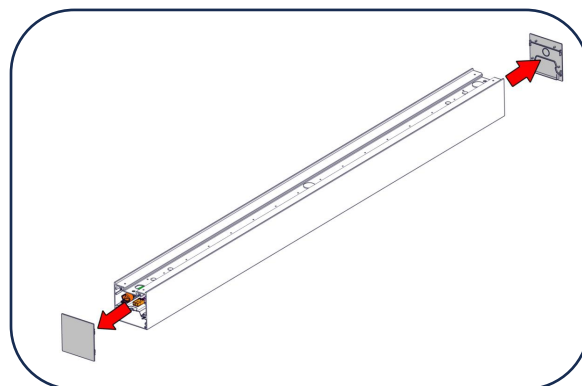


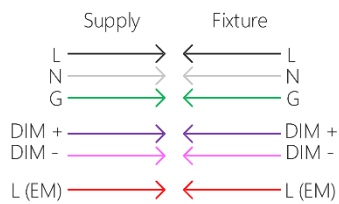
Figure 4

14. Carefully pull the available length of **Driver Harness** wires out. [Figure 5]
15. Raise the fixture and pass the threading of each Stem through the 1/2" holes of the fixture.

Note: The Stem with the Power Cable must be mounted to Side A of the fixture. Feed each quick disconnect into the hole and pull them out of the exposed end of the fixture.

16. Secure the fixture to each Stem using the included 1/2" lock nuts. [Figure 6]
17. Mate the Driver Harness and Power Cable connectors. Push the connectors and extra lengths of wire back into the fixture.

Note: For fixtures with emergency backup, mate the single wire connectors.



18. Replace the End Caps.
19. Restore branch supply power and ensure the fixture functions properly. If the fixture does not turn on or function properly, shut off the branch supply power and check all electrical connections.

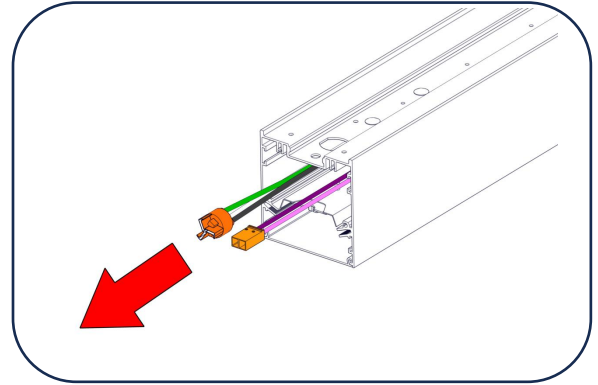


Figure 5

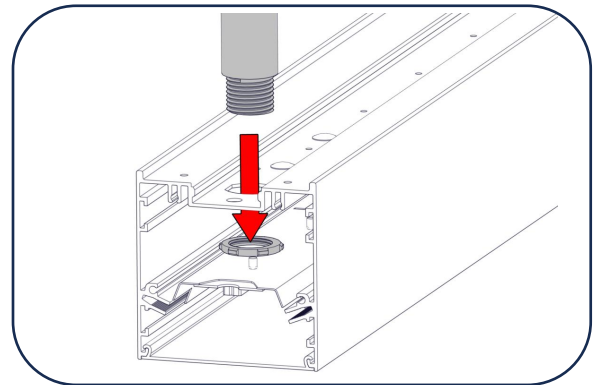


Figure 6

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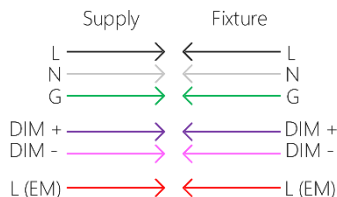
Single Fixture: Wall Mount

1. Determine the location of the supply power. A recessed junction box with the incoming power feed must be installed here.
2. For fixtures with two **Wall Mounts**, determine the second mounting point. It can be a junction box or a location directly on the wall.

Note: Refer to the Mount Spacing section for specific spacing dimensions.

Note: If the fixture has more than one Wall Mount, the mount with loose power/dimming wires must be installed to the junction box.

3. Remove the **Quick Mount Bracket(s)** by loosening the two set screws on the bottom of the Wall Mount(s). [Figure 1]
4. Mount the Quick Mount Bracket(s) to the junction box (or mounting surface) using the provided screws or screws suitable for the junction box (or mounting surface). [Figure 2] Steps 1-4 also apply to the Flush Wall Mount. [Figure 3]
5. Check the bubble level to ensure the bracket(s) is (are) aligned to “true horizontal”.
6. Raise the fixture to the mounting location and hook the Safety Cable(s) to the Quick Mount Bracket(s).
7. Make the wire connections to the building wiring using the included wire nuts. Push any extra length of wire into the junction box.



8. Hook the Wall Mount(s) onto the installed Quick Mount Bracket(s) making sure no wires are pinched.
9. Tighten the set screws on the bottom of the Wall Mount(s).
10. Restore branch supply power and ensure the fixture functions properly. If the fixture does not turn on or function properly, shut off the branch supply power and check all electrical connections.

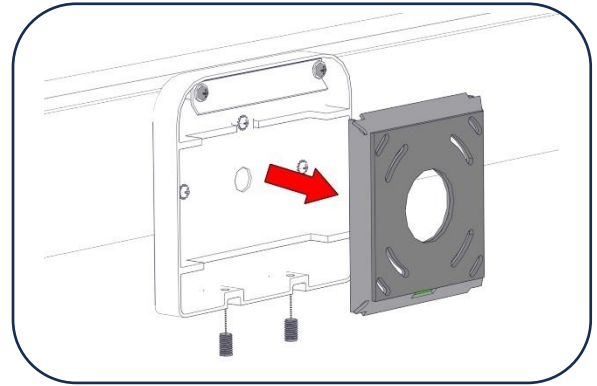


Figure 1

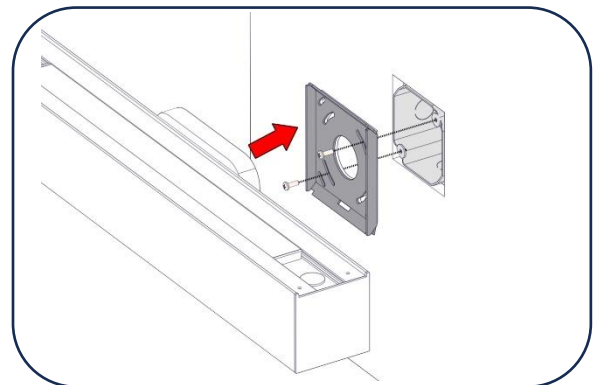


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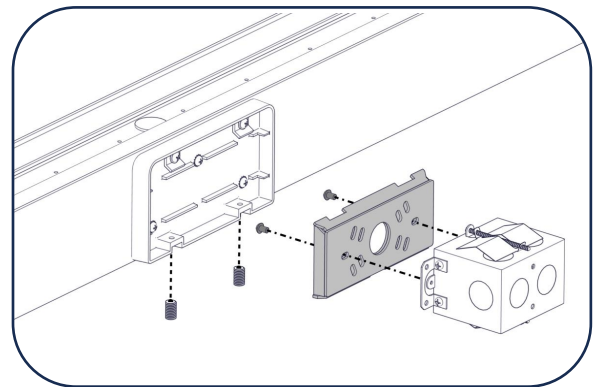


Figure 3

Continuous Run: Hard Ceiling Mount

1. Remove the **End Caps** and **Bottom Diffusers** from each fixture. [Figure 1]
2. Pull the available length of **Driver Harness** and **Extension Harness** wires out of each fixture. [Figure 2]
3. Determine which fixture will be the starter. This may be referenced in the provided shop drawing.
4. Remove the **Cable Plug** and insert the **Power Cable**, feeding the quick disconnects through the hole. [Figure 3]
5. Snap the **Strain Relief Bushing** of the Power Cable into the hole.
6. Mate the Driver Harness, Power Cable, and **Starter Harness** connectors. Push the connectors and extra lengths of wire back into the fixture.

Note: For fixtures with emergency backup, mate the single wire connector from the fixture to the Power Cable connector.

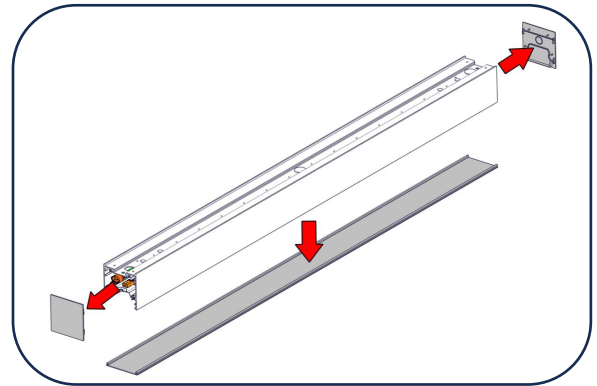
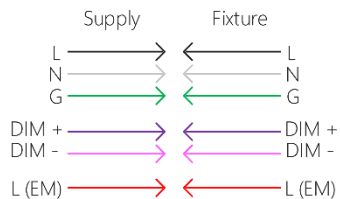


Figure 1

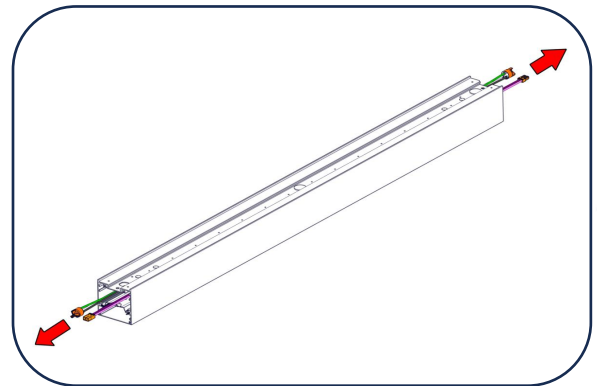


Figure 2

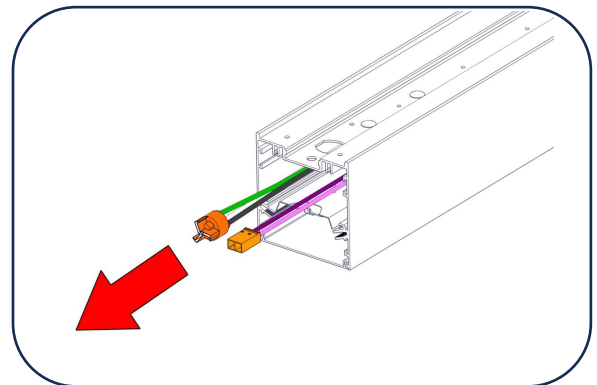


Figure 3

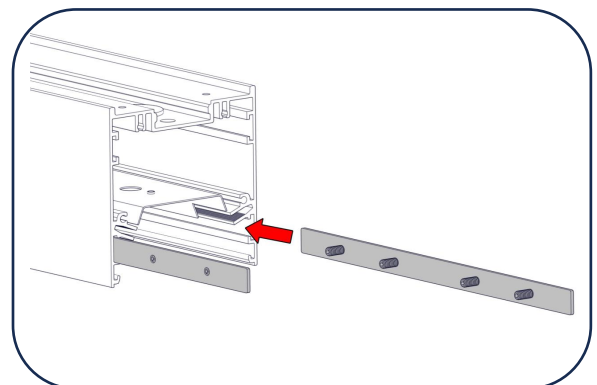


Figure 4

7. Arrange the fixtures (face down) according to the provided shop drawing.

Note: Side A (or B) of one fixture must always be joined with Side B (or A) of another.

Note: Refer to *Corner Installation* section for runs with corners.
8. Unpack the contents of the **Hang Kit(s)**.
9. Insert **Inner Joiners** into the side(s) of the starter fixture [Figure 4]. Tighten with a Hex Key or Ratchet.
10. Mate the Harness wire connectors of the starter fixture to the connectors of the adjoining fixture(s) and tuck them into the housing. Push the fixtures together so the ends are flush, making sure no wires are pinched.
11. Assemble a **Mounting Cable** to a **Small Joiner Bracket** (or **Large Joiner Bracket** for **Control Boxes** installed in the middle of the run) and secure to the joining fixtures. [Figure 5]

Note: If installing a Control Box in the middle of the run, refer to the *Control Box Installation* section
12. Continue to insert Inner Joiners and mate the connectors between each additional fixture in the run. Secure each joint with a Mounting Cable / Small (Large) Joiner Bracket assembly.

13. Remove the small rubber plug at each end of the fixture run and install the remaining **Mounting Cables**. Secure with the ¼" lock nuts and replace the End Caps at each end of the run. [Figure 6]
14. Remove and set aside the **Threaded Inserts** from each of the Mounting Cables.
15. Pull the **Aircraft Cable** attached to Side A of the starter fixture through the center hole of **Canopy A**. [Figure 7]
16. Assemble a **Mounting Bracket** and **Aircraft Cable Grip** with one of the Threaded Inserts removed in the step 19. Secure the end of the Aircraft Cable with the Aircraft Cable Grip. [Figure 8]
17. Feed the Power Cable through the grommeted hole of Canopy A.
18. Drill holes in the ceiling for each Hang Kit mounting point . A 13/16" drill bit is recommended.

Note: Refer to the *Mount Spacing* section to determine the proper location for these holes.

19. Install the Toggle Bolt Assemblies to the ceiling with the remaining Threaded Inserts removed in step 19. [Figure 9]
20. Lift the fixture and mount:
 - Secure the Mounting Bracket installed on the Mounting Cable attached to Side A of the starter fixture to the junction box using the provided screws or screws suitable for the junction box. [Figure 10]
 - Secure a Canopy B to each pre-installed Threaded Insert with the Threaded Base of the Cable Support for each additional mounting point. [Figure 9]



Do not let the fixture freely hang until both Mounting Cables are completely installed and secure.

21. Adjust the Aircraft Cables as needed to the desired fixture height and use a level to find the "true horizontal".
22. Place Canopy A against the ceiling and push the Power Cable slack into the junction box. Mark the Power Cable where it meets the bottom of the canopy.
23. Install the **Cable Clamp** above the canopy and approximately ¼" above the mark to eliminate slack on the Power Cable.

Note: Depending on the length of fixture suspension, the Power Cable may need to cut and stripped to avoid overfilling the junction box.

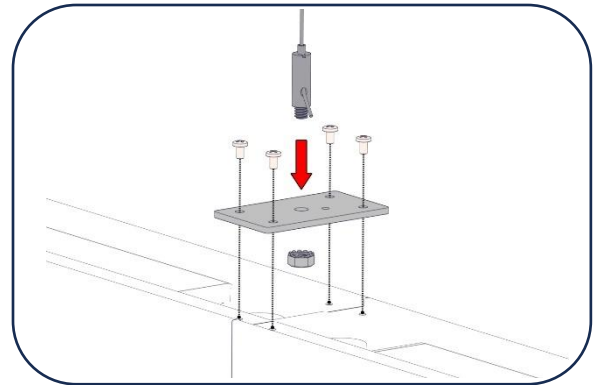


Figure 5

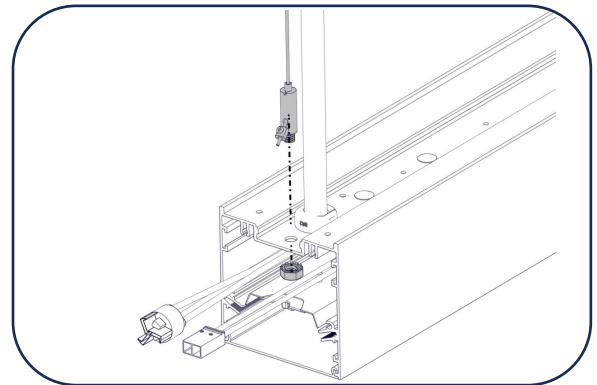


Figure 6

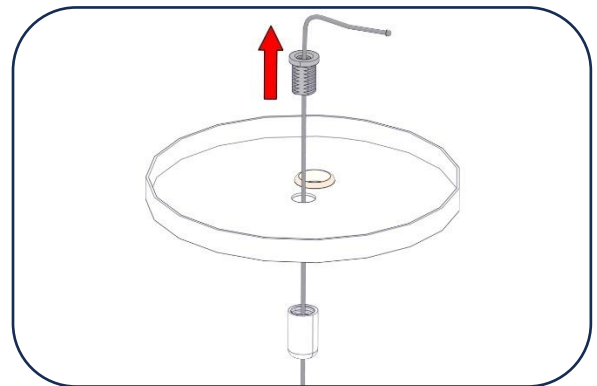


Figure 7

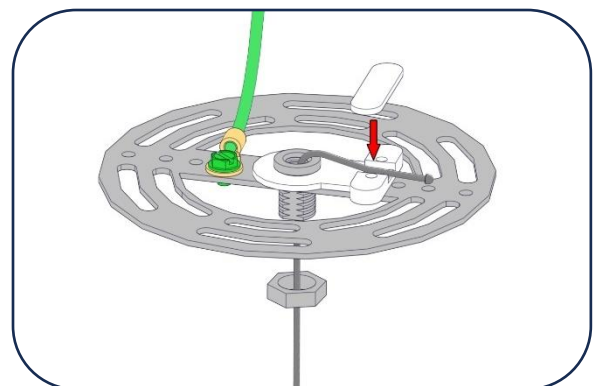
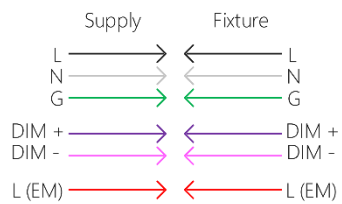


Figure 8

24. Make the wire connections to the building wiring using the included wire nuts. Push any extra length of wire into the junction box.



25. Push the wires into the junction box and secure Canopy A with the Threaded Base of the Cable Support.
26. Restore branch supply power and ensure the fixture functions properly. If the fixture does not turn on or function properly, shut off the branch supply power and check all electrical connections.

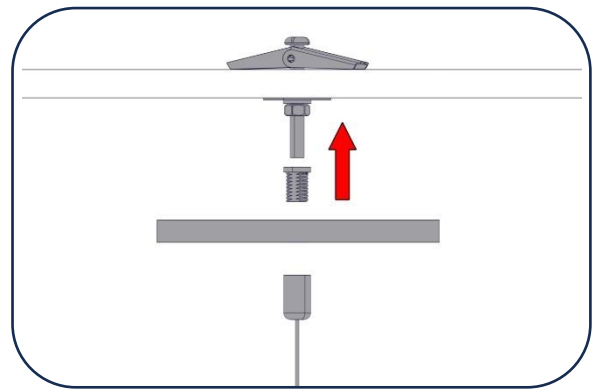


Figure 9

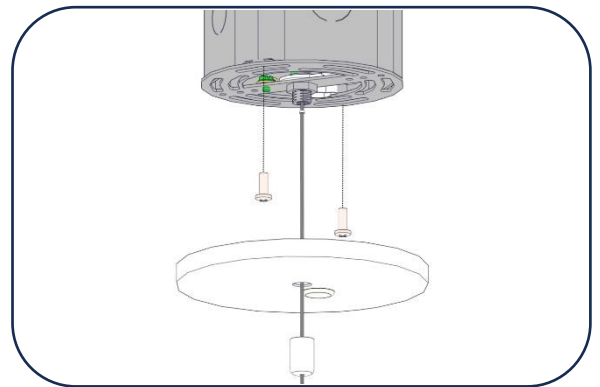


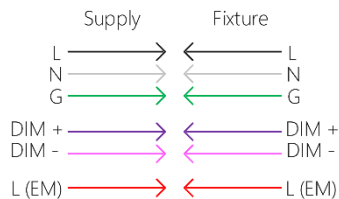
Figure 10

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Continuous Run: Drop Ceiling Mount

1. Remove the **End Caps** and **Bottom Diffusers** from each fixture. [Figure 1]
2. Pull the available length of **Driver Harness** and **Extension Harness** wires out of each fixture. [Figure 2]
3. Remove the **Cable Plug** and insert the **Power Cable**, feeding the quick disconnects through the hole. [Figure 3]
4. Snap the **Strain Relief Bushing** of the Power Cable into the hole.
5. Mate the Driver Harness, Power Cable, and **Starter Harness** connectors for the starter fixture. Push the connectors and extra lengths of wire back into the fixture.

Note: For fixtures with emergency backup, mate the single wire connector from the fixture to the Power Cable connector.



6. Arrange the fixtures (face down) according to the provided shop drawing.

Note: Side A (or B) of one fixture must always be joined with Side B (or A) of another.

Note: Refer to *Corner Installation* section for runs with corners.

7. Unpack the contents of the **Hang Kit(s)**.
 8. Determine which fixture will be the starter. This may be referenced in the provided shop drawing.
 9. Insert **Inner Joiners** into the side(s) of the starter fixture [Figure 4]. Tighten with a Hex Key or Ratchet.
 10. Mate the Harness wire connectors of the starter fixture to the connectors of the adjoining fixture(s) and tuck them into the fixtures. Push the fixtures together so the ends are flush, making sure no wires are pinched.
 11. Assemble a **Mounting Cable** to a **Small Joiner Bracket** (or **Large Joiner Bracket** for **Control Boxes** installed in the middle of the run) and secure to the joining fixtures. [Figure 5]
- Note: If installing a Control Box in the middle of the run, refer to the *Control Box Installation* section
12. Continue to insert Inner Joiners and mate the connectors between each additional fixture in the run. Secure each joint with a Mounting Cable / Small (Large) Joiner Bracket assembly.
 13. Reinstall the diffuser for each fixture. Make sure the ends of the diffuser are flush with the ends of the fixture.

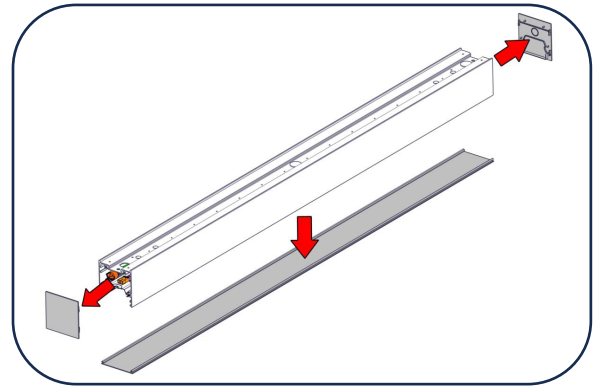


Figure 1

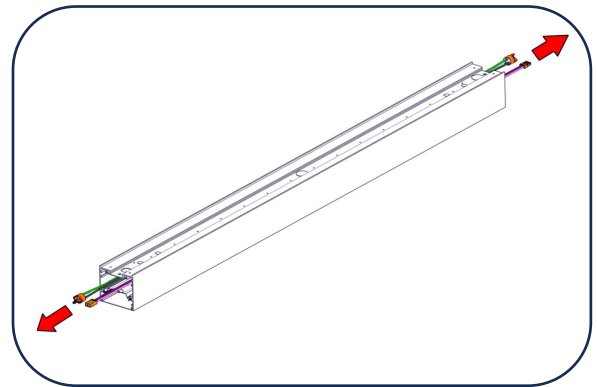


Figure 2

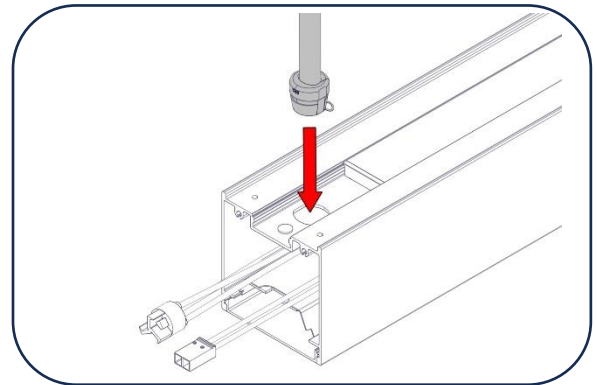


Figure 3

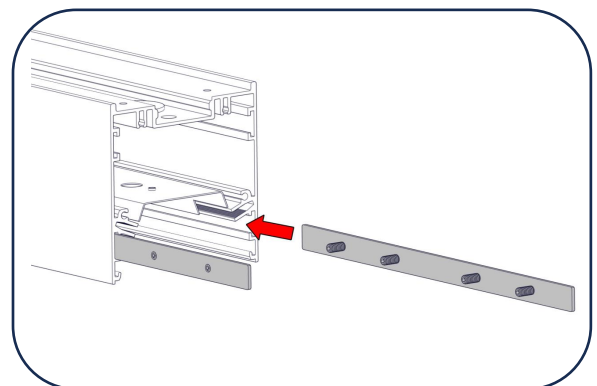


Figure 4

14. Remove the small rubber plug at each end of the fixture run and install the remaining **Mounting Cables**. Secure with the ¼" lock nuts and replace the End Caps at each end of the run. [Figure 6]

15. Install the **Ceiling Hangers** at the pre-determined locations on the ceiling grid (support wire by others) [Figure 7]

Note: One of the Ceiling Hangers must be installed near a junction box for wiring Side A.

Note: Refer to the *Mount Spacing* section to determine the proper distance between each hanger.

16. Fit Canopy A over the over the exposed thread of the Ceiling Hanger installed for Side A of the starter fixture and mark the ceiling tile where the Power Cable will pass through.

17. Set aside Canopy A and remove the marked ceiling tile. At the mark, make a 1" hole and replace the ceiling tile.

18. Lift the fixture and fit each canopy over the exposed thread of the hangers. Secure each Canopy to a Ceiling Hanger with the Threaded Adaptors of the Mounting Cables. [Figure 8]

- Side A of the starter fixture should be mounted using Canopy A. Canopy A should be oriented so the Power Cable can pass through both the grommated hole of the canopy and ceiling tile that was modified in the previous step.
- All other mounting points should be mounted using Canopy B.



Do not let the fixture freely hang until both Mounting Cables are completely installed and secure.

19. Adjust the Aircraft Cables as needed to the desired fixture height and use a level to find the "true horizontal".

Note: Refer to the *Adjustments* section for further detail.

20. Remove the ceiling tile adjacent to the one modified in step 17 for access to the junction box.

21. Pull the Power Cable through the grommated hole of Canopy A and into the ceiling.

22. Install the **Cable Clamp** approximately ¼" above Canopy A and the ceiling tile to eliminate slack on the Power Cable.

23. Make the wire connections to the building wiring using the included wire nuts. Push any extra length of wire into the junction box.

24. Replace the ceiling tile removed in step 20.

25. Restore branch supply power and ensure the fixture functions properly. If the fixture does not turn on or function properly, shut off the branch supply power and check all electrical connections.

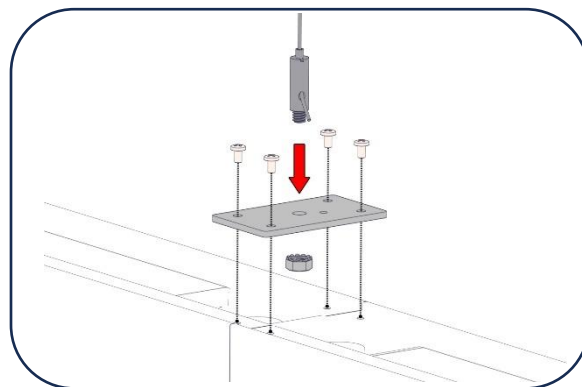


Figure 5

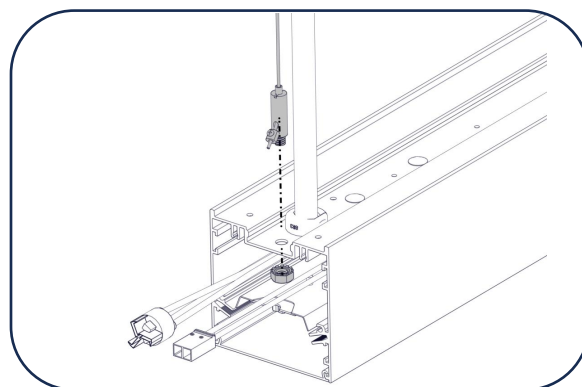


Figure 6

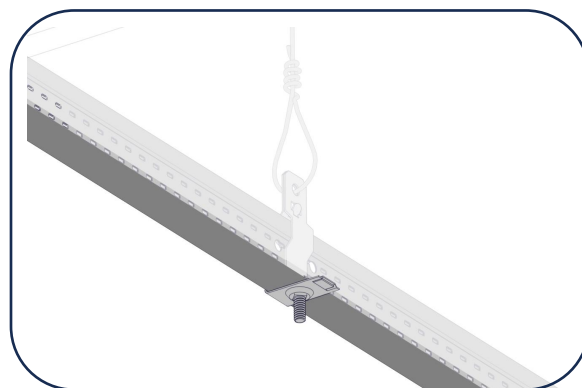


Figure 7

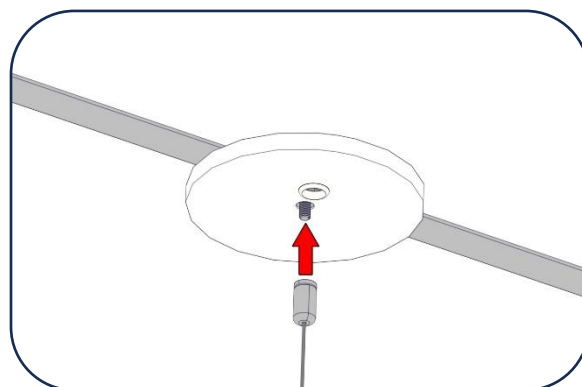


Figure 8

Continuous Run: Stem Mount

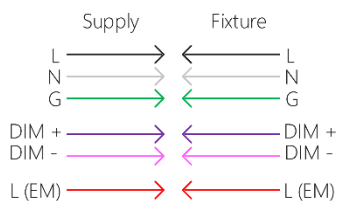
1. Remove the End Caps and Bottom Diffusers from each fixture. [Figure 1]
2. Pull the available length of **Driver Harness** and **Extension Harness** wires out of each fixture. [Figure 2]
3. Determine the location of the supply power drop. A recessed junction box with the incoming power feed must be installed here.
4. Determine the mounting points for the rest of the run. They can be junction boxes or locations directly on the ceiling.

Note: Refer to the provided shop drawing and Mount Spacing section for specific spacing dimensions.

5. Unpack the contents of the **Hang Kit(s)**.
6. Begin assembling a ceiling mount using a **Mounting Bracket**, **Stem Holder**, and ½" lock nut. [Figure 3]
7. Feed the **Power Cable** through a **Stem**. The Stem should be oriented so that the quick disconnects of the Power Cable exit the male threading. [Figure 4]
8. Add length to the Stem (if required) by threading together additional Stems. If only using a single Stem, skip to the next step. [Figure 4]

Note: Pass the end of the Power Cable through each added Stem.

9. Feed the Power Cable through the center hole of a **Canopy C** and the ceiling mount assembly from step 3.
10. Make the wire connections to the building wiring using the included wire nuts.



11. Use the **Cable Clamp** to reduce strain on the Power Cable, leaving at least 1 – 2 inches of the cable jacket above the clamp.
12. Install the assembled ceiling mount to the junction box using the provided screws or screws suitable for the junction box.
Note: Side A of the starter fixture will be installed to this mount.
13. Secure Canopy C to the ceiling mount with the Stem.
14. Assemble the other ceiling mounts for each required mounting point using a **Mounting Bracket**, **Stem Holder**, and ½" lock nut for each mount.

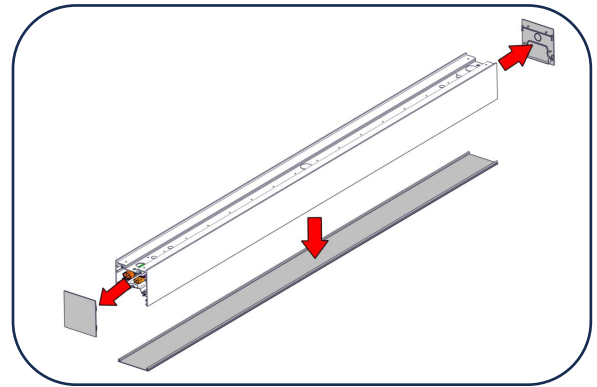


Figure 1

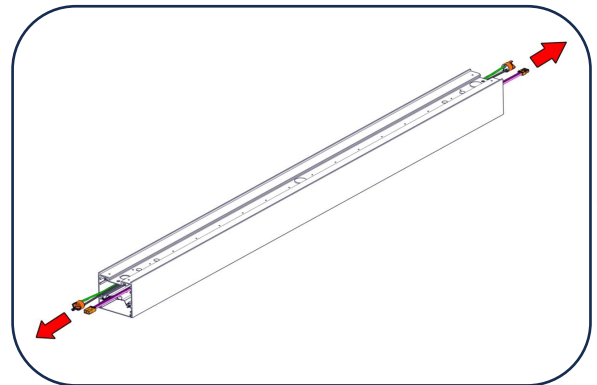


Figure 2

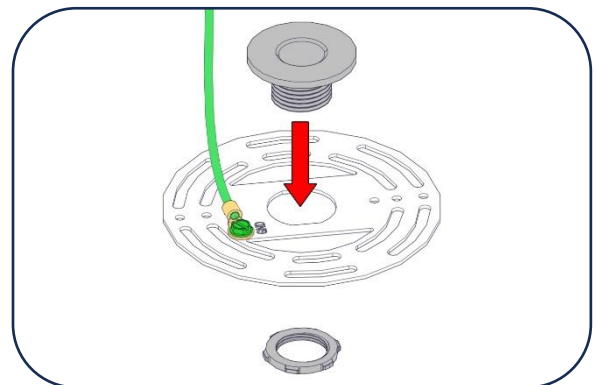


Figure 3

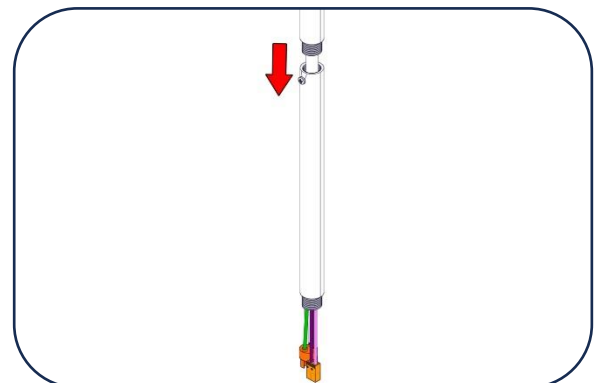


Figure 4

15. Install the assembled ceiling mounts at each mounting point and attach a Canopy C to each ceiling mount using a Stem, equal in length to the first stem, to secure it.
16. Determine which fixture will be the starter. This may be referenced in the provided shop drawing.
17. Arrange the fixtures (face down) according to the provided shop drawing.

Note: Side A (or B) of one fixture must always be joined with Side B (or A) of another.

Note: Refer to *Corner Installation* section for runs with corners.

18. Insert **Inner Joiners** into Side B of the starter fixture, [Figure 5]. Tighten with a Hex Key or Ratchet.
19. Mate the Harness wire connectors of the starter fixture to the connectors of the adjoining fixture and tuck them into the fixtures. Push the fixtures together so the ends are flush, making sure no wires are pinched.
20. Assemble a **Stem Adaptor** and **Small Joiner Bracket** (or **Large Joiner Bracket** for **Control Boxes** installed in the middle of the run) and secure to the joining fixtures. Thread an **Adjustable Stem Adaptor** onto the Stem Adaptor. [Figure 6]

Note: If installing a Control Box in the middle of the run refer to the *Control Box Installation* section

21. Continue to insert Inner Joiners and mate the connectors between each additional fixture in the run. Secure each joint with a Stem Adaptor / Small (Large) Joiner Bracket assembly. Thread an Adjustable Stem Adaptor onto each Stem Adaptor.
25. Reinstall the diffuser for each fixture. Make sure the ends of the diffuser are flush with the ends of the fixture.
26. Flip the assembled run over so the top is accessible.
27. Raise the fixture and pass the male threaded ends of each Stem through the ½" hole on each end of the run. Thread the **Adjustable Stem Adaptors** onto the stems in the middle of the run.

Note: The Stem with the Power Cable must be mounted to Side A of the starter fixture. For this Stem, feed each quick disconnect into the hole and pull them out of the fixture.

28. Secure the fixture to the Stem at each end using the included ½" lock nuts. [Figure 7]
29. Connect the male quick disconnects of the Power Cable with the Harness Wires using the quick disconnects. Push the extra length of connected wires inside the fixture.

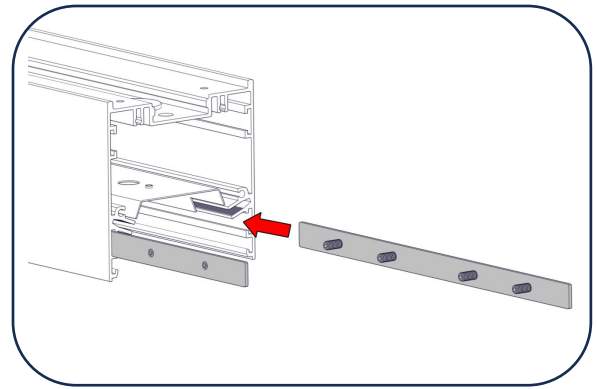


Figure 5

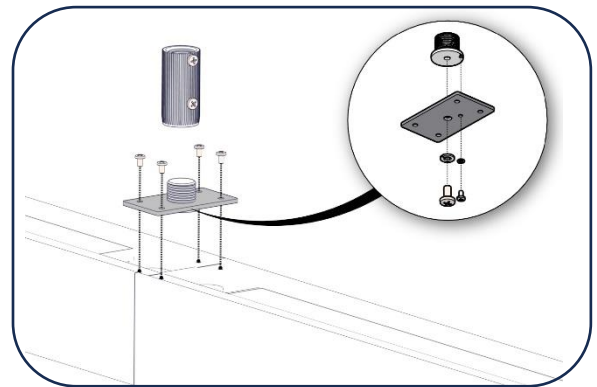


Figure 6

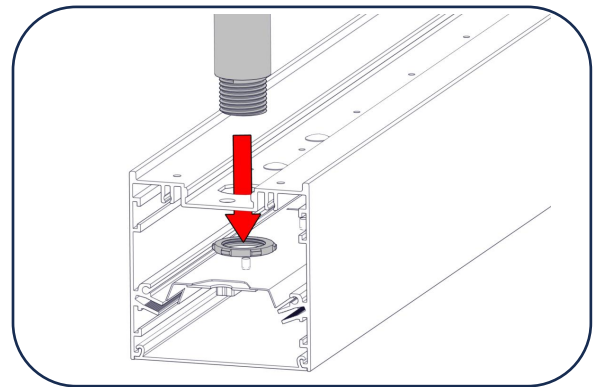
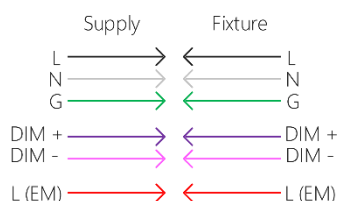


Figure 7



30. Replace the End Caps at each end of the run.
 31. Restore branch supply power and ensure the fixture functions properly. If the fixture does not turn on or function properly, shut off the branch supply power and check all electrical connections.
-

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Continuous Run: Wall Mount

1. Remove the **Quick Mount Bracket** from each **Wall Mount** by loosening the two set screws on the bottom of each Wall Mount. [Figure 1]
2. Remove the **End Caps** and **Bottom Diffusers** from each fixture. [Figure 2]
3. Pull the available length of **Driver Harness** and **Extension Harness** wires out of each fixture. [Figure 3]
4. Determine the location of the supply power. A recessed junction box with the incoming power feed must be installed here.

5. Determine the mounting points for each **Wall Mount** to be installed. The mounting point can be a junction box or a location directly on the wall.

Note: All brackets must be installed at the same distance from the floor/ceiling so that the fixture run is level when completely installed.

Note: Refer to the Mount Spacing section for specific spacing dimensions.

Note: If the fixture has more than one Wall Mount, the mount with loose power/dimming wires must be installed to the junction box.

6. Arrange the fixtures (face down) according to the provided shop drawing.

Note: *Side A (or B)* of one fixture must always be joined with *Side B (or A)* of another.

7. Locate the fixture with loose wire leads exiting the back of it, this is the starter fixture.
8. Insert **Inner Joiners** into the side(s) of the starter fixture, [Figure 4]. Tighten with a Hex Key or Ratchet.
9. Mate the Harness wire connectors of the starter fixture to the connectors of the adjoining fixture(s) and tuck them into the fixtures. Push the fixtures together so the ends are flush, making sure no wires are pinched.
10. Install the **Small Joiner Bracket(s)** (or **Large Joiner Bracket** for **Control Boxes** installed in the middle of the run) between the fixture(s) using the provided thread-forming screws. [Figure 5]
11. Continue to insert Inner Joiners and mate the connectors between each additional fixture in the run. Secure each joint with a Small (Large) Joiner Bracket.

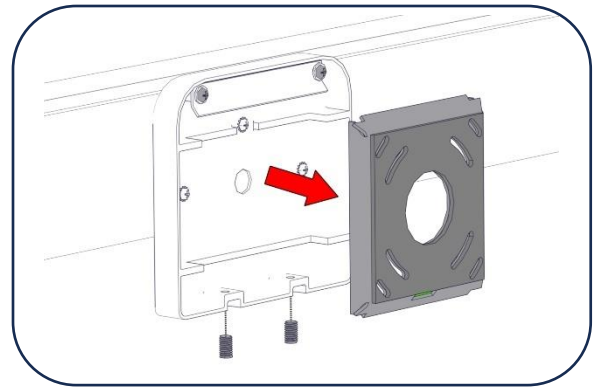


Figure 1

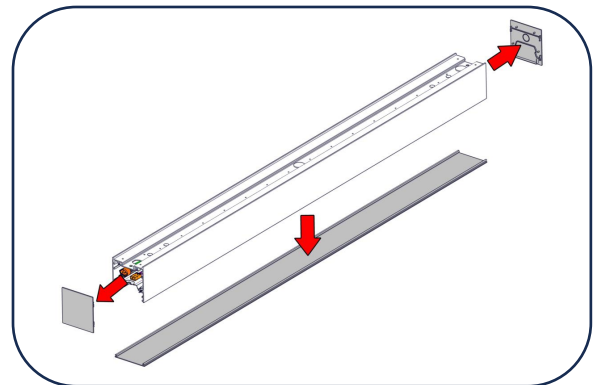


Figure 2

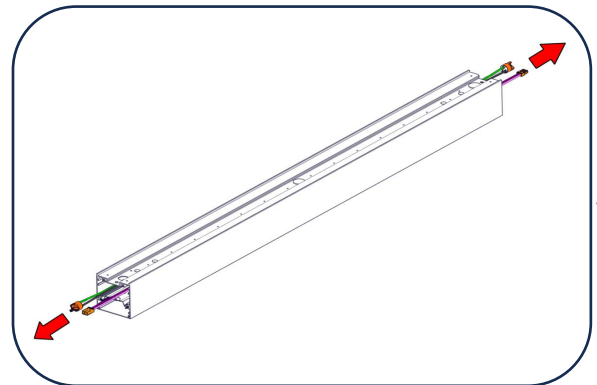


Figure 3

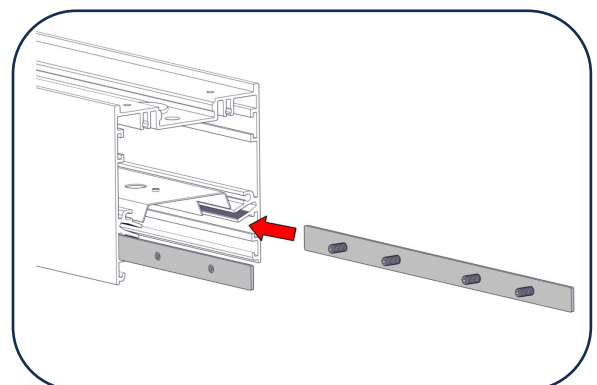
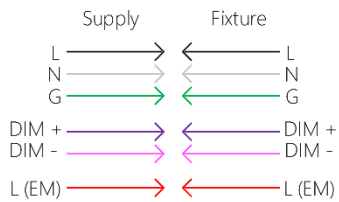


Figure 4

12. Mount the Quick Mount Brackets to the junction box (or mounting surface) at the pre-determined locations using the provided screws or screws suitable for the junction box (or mounting surface).
13. Use the bubble level on each bracket to ensure it is aligned with “true horizontal”.
14. Raise the assembled fixture run to the mounting location and hook the Safety Cables to each Quick Mount Bracket.
15. Make the wire connections from the starter fixture to the building wiring using the included wire nuts. Push any extra length of wire into the junction box.



16. Hook the Wall Mounts onto the installed Quick Mount Brackets making sure no wires are pinched at the starter fixture and no Safety Cables are visible anywhere along the run.
17. Tighten the set screws on the bottom of the Wall Mounts.
18. Restore branch supply power and ensure the fixture functions properly. If the fixture does not turn on or function properly, shut off the branch supply power and check all electrical connections.

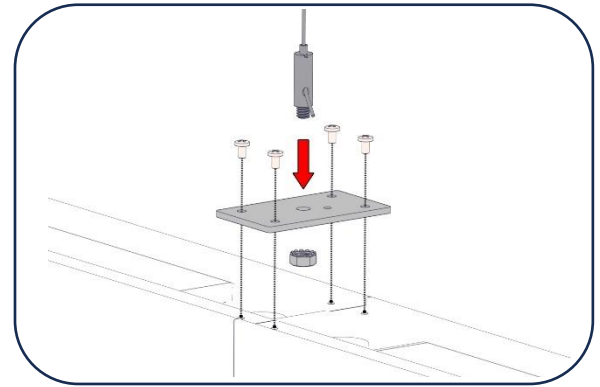
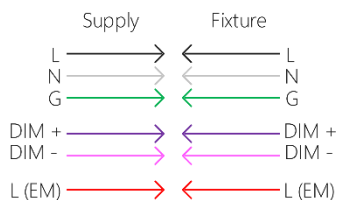


Figure 5

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Surface Mount (Downlight Only)

1. Prepare the mounting surface junction boxes or ceiling anchors according to the mounting method (hardware by others).
2. Remove the End Caps and Lens. [Figure 1]
3. Disconnect and remove each LED Tray. [Figure 1]
For Single Fixtures, skip to Step 6.
4. Insert **Inner Joiners** into the side(s) of the starter fixture. [Figure 2]. Tighten with a Hex Key or Ratchet.
5. Install the **Small Joiner Bracket(s)** (or **Large Joiner Bracket** for **Control Boxes** installed in the middle of the run) between the fixture(s) using the provided thread-forming screws. [Figure 3]
6. Remove the **Cable Plug** where the fixture will access the junction box and install the fixture to the surface using the appropriate mounting hardware for the surface (by others). [Figure 4].
7. Make the wire connections from the starter fixture to the building wiring using the included wire nuts. Push any extra length of wire into the junction box.



8. Reconnect and reinstall each LED Tray.
9. Replace the Lens and End Caps.
10. Restore branch supply power and ensure the fixture functions properly. If the fixture does not turn on or function properly, shut off the branch supply power and check all electrical connections.

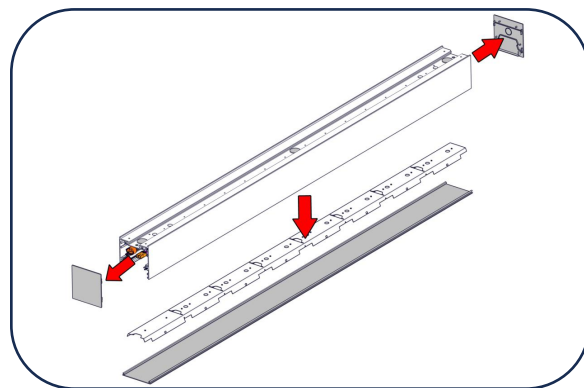


Figure 1

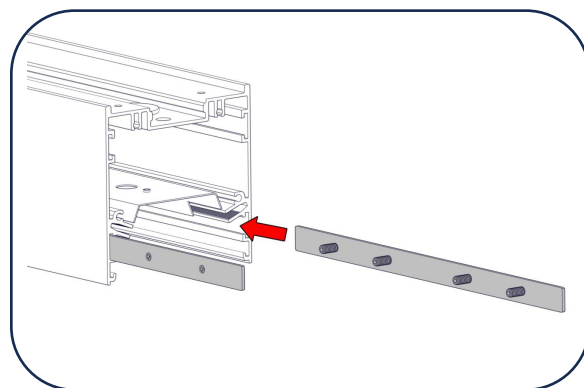


Figure 2

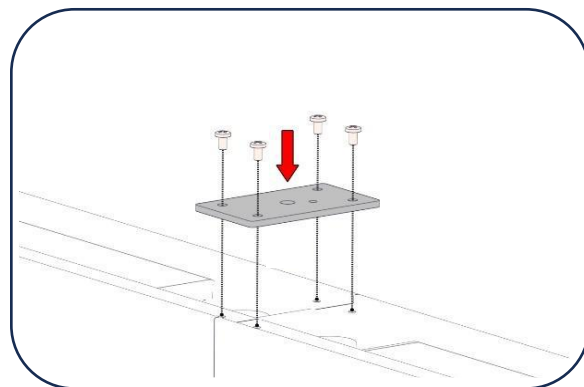


Figure 3

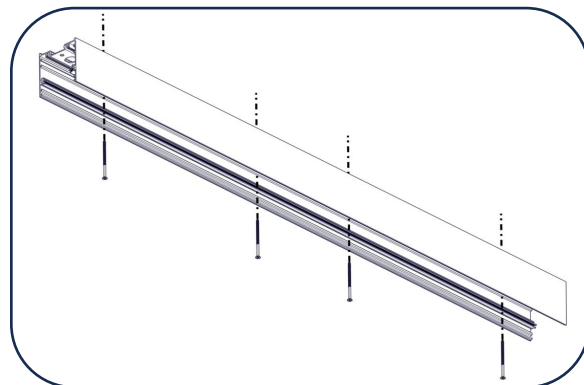


Figure 4

Corner Fixture: Cable Mount

1. Remove the **Corner Bracket**. [Figure 1]
2. Unpack the contents of the **Hang Kit**.
3. Install one of the **Mounting Cables** and secure it with the included ¼" lock nut. [Figure 2]
4. Reinstall the Corner Bracket.

Corner Fixture: Stem Mount

1. Remove the **Corner Bracket**. [Figure 1]
2. Unpack the contents of the **Hang Kit**.
3. Assemble the **Stem Adaptor** to the Corner Bracket using the provided screws. [Figure 3]
4. Thread the **Adjustable Stem Adaptor** onto the Stem Adaptor.
5. Reinstall the Corner Bracket.

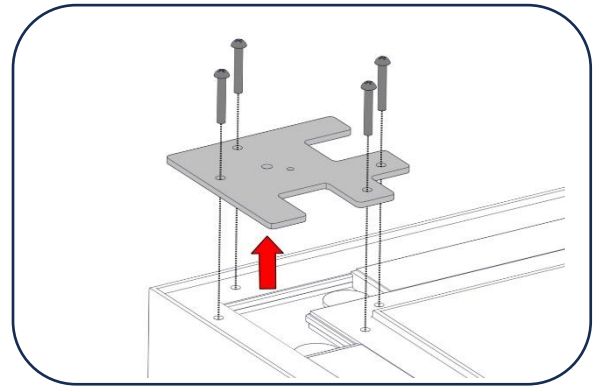


Figure 1

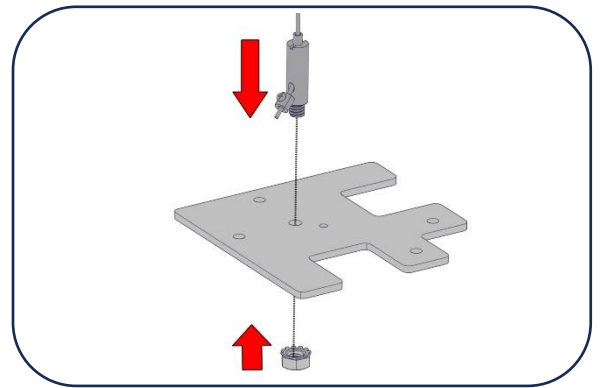


Figure 2

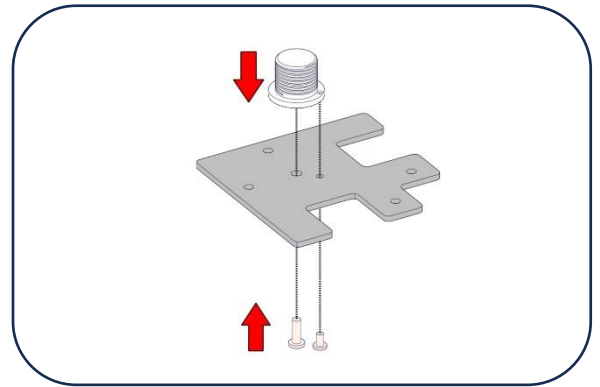


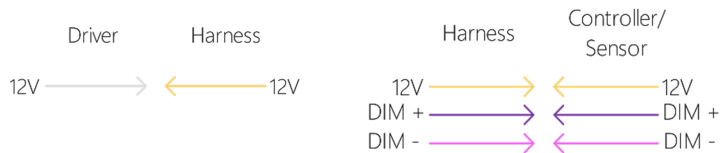
Figure 3

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Control Box: End Mount

1. Install Inner Joiners in Side B of the fixture. [Figure 1]
2. Pull the dimming and one 12V AUX lead from the fixture and make the wire connections to the sensor/controller leads.

Note: Do not connect the fixture's input dimming leads to the building's supply wiring.



3. Attach the Control Box to one end of the fixture.
4. Install the appropriate mounting hardware to the Small Joiner Bracket. [Figure 2].
5. Secure the Control Box to the two fixtures using the Large Joiner Bracket assembled with the mounting hardware from step 4 and tighten the Inner Joiners [Figure 3]

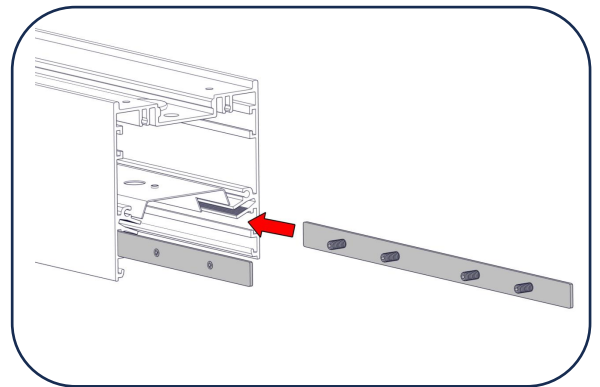


Figure 1

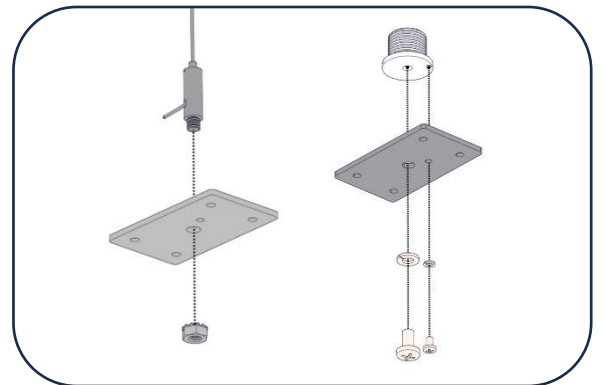


Figure 2

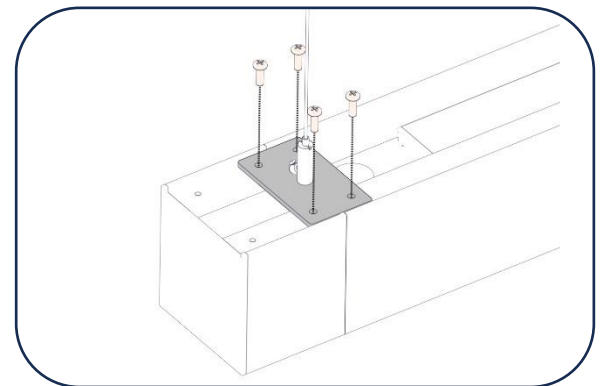
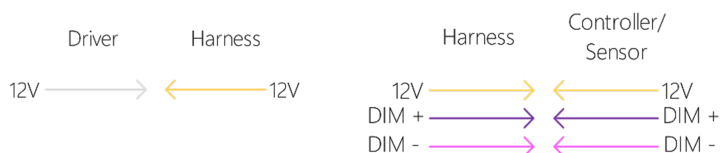


Figure 3

1. Install a Inner Joiners in the fixture to be joined. [Figure 1]
2. Pull the dimming and one 12V AUX lead from one fixture and make the wire connections to the sensor/controller leads.

Note: Do not connect the fixture's input dimming leads to the building's supply wiring.



3. Install the appropriate mounting hardware to the Large Joiner Bracket. If installing in a Wall Mount run, only the Large Joiner Bracket is required. [Figure 2]
4. The Control Box must be joined with Side B of one fixture and Side A of another fixture.
5. Pass the Harness wires from Side A (or B) of one fixture through the center of the Control Box, and mate the connectors with the Harness wires from Side B (or A) of another fixture. [Figure 4]
6. Secure the Control Box to the two fixtures using the Large Joiner Bracket assembled with the mounting hardware from step 3 and tighten the Inner Joiners [Figure 4]

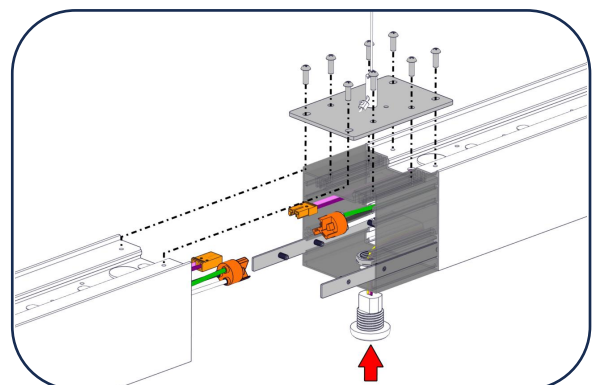
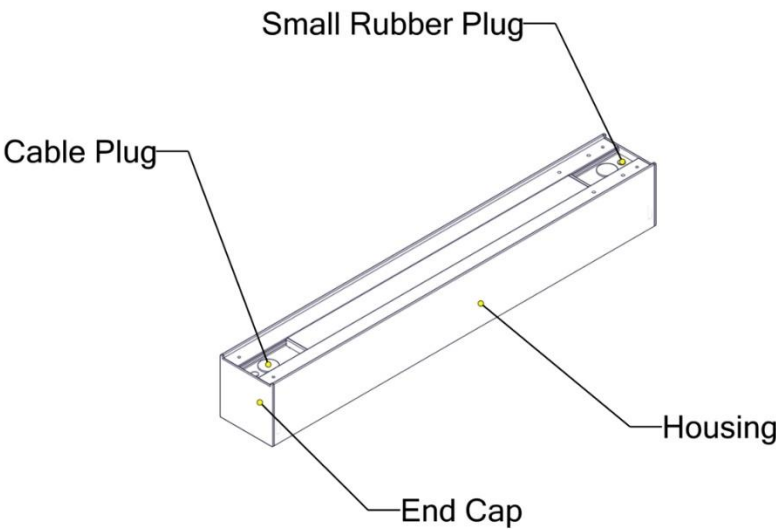


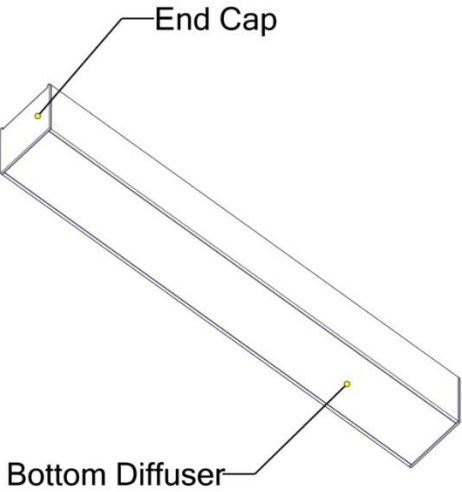
Figure 4

Assembly Diagrams

Top View



Bottom View

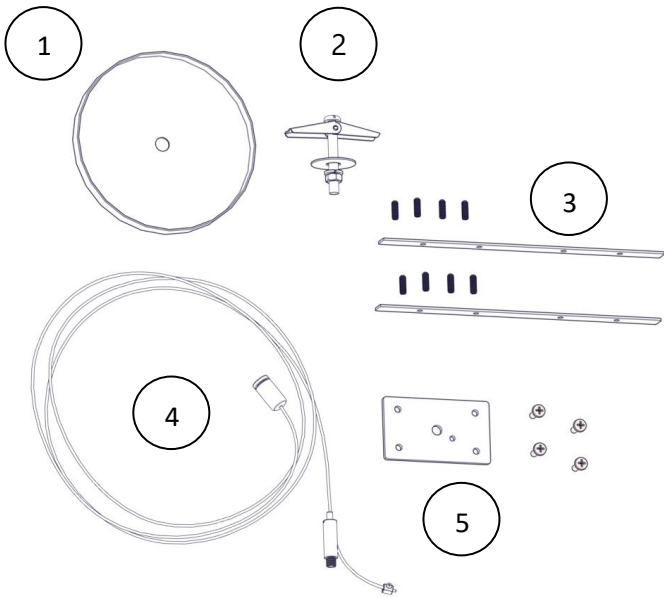


Accessory Diagrams

Hang Kits

Hard Ceiling Joiner

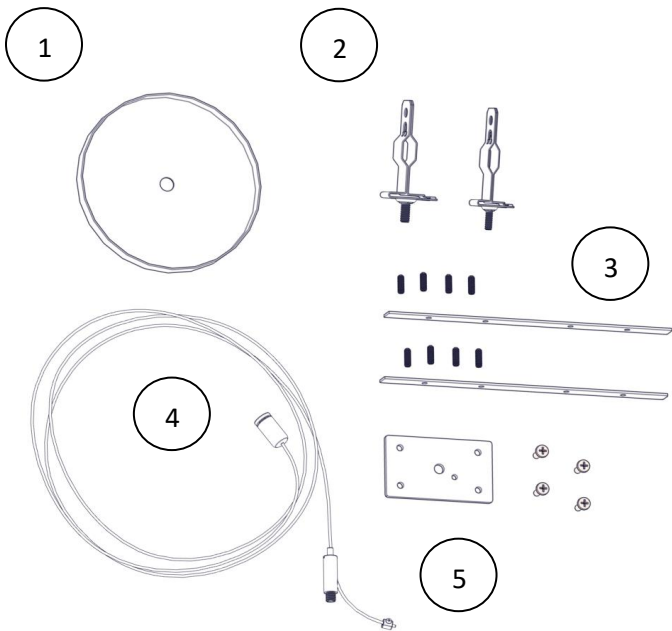
1	Canopy B	1
2	Toggle Bolt Assembly	1
3	Inner Joiners	2
4	Mounting Cable	1
5	Small Joiner Bracket	1



Hard Ceiling

Drop Ceiling Joiner

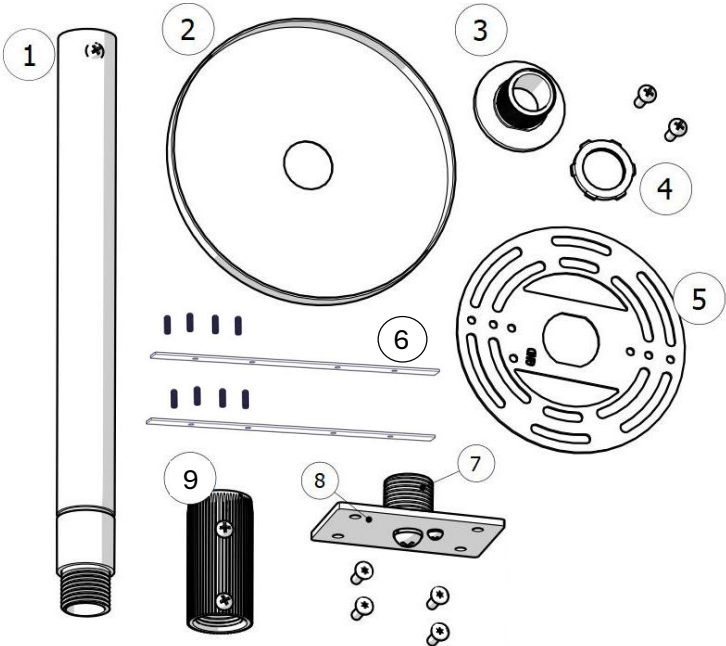
1	Canopy B	1
2	Hangar Clips	2
3	Inner Joiners	2
4	Mounting Cable (with ¼" lock nut)	1
5	Small Joiner Bracket	1
6	Center Support Bracket	2



Drop Ceiling

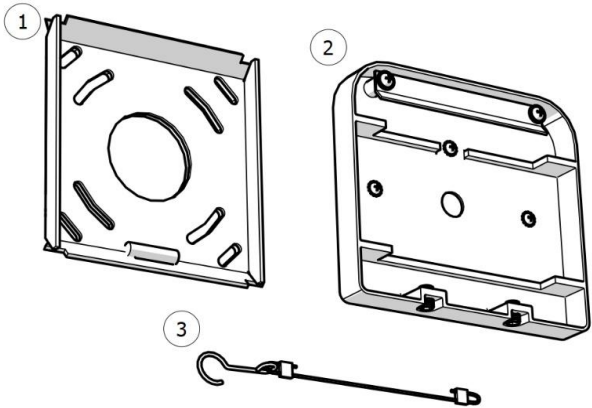
Stem Joiner

1	1ft or 2ft Stem	1
2	Canopy C	1
3	Stem Holder	1
4	1/2" NPT Lock Nut	1
5	Mounting Bracket	1
6	Inner Joiners	2
7	Stem Adaptor	1
8	Small Joiner Bracket	1
9	Adjustable Threaded Adaptor	1



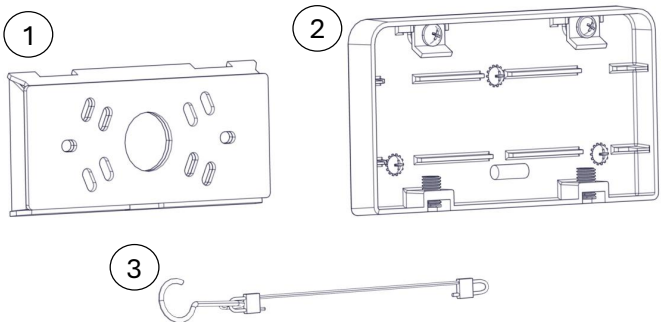
Wall

1	Quick Mount Bracket	1
2	Wall Mount	1
3	Safety Cable	1



Wall (Flush)

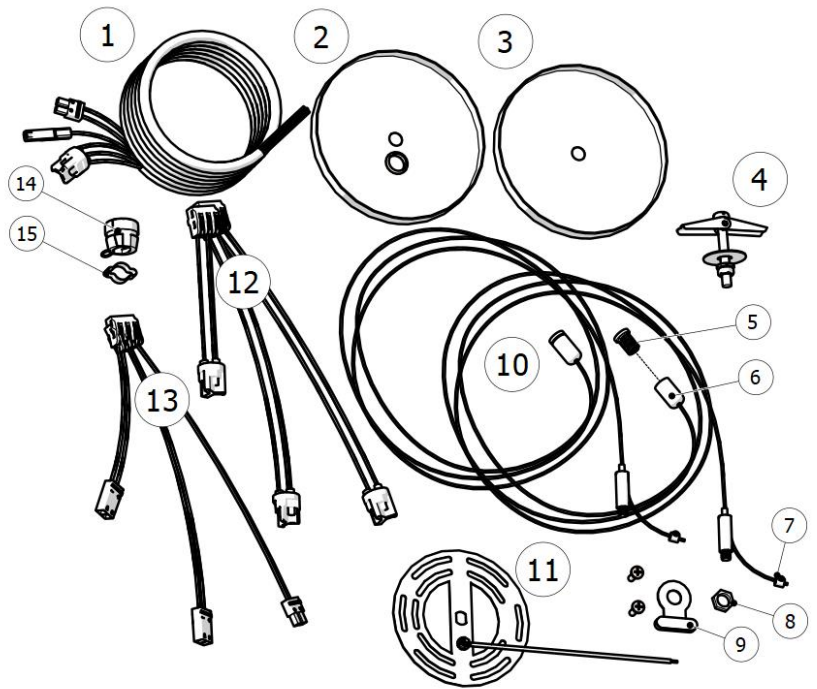
1	Quick Mount Bracket	1
2	Flush Wall Mount	1
3	Safety Cable	1



Feed Kits

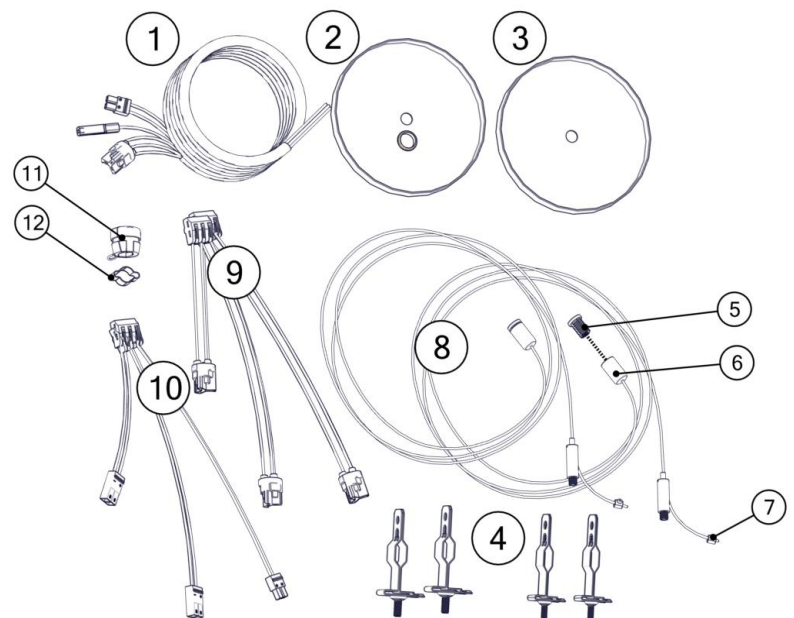
Hard Ceiling

1	Power Cable	1
2	Canopy A	1
3	Canopy B	1
4	Toggle Bolt Assembly	1
5	Threaded Insert	2
6	Threaded Base	2
7	Cable Crimp	1
8	Hex Nut	1
9	Aircraft Cable Clamp	1
10	Mounting Cables (with 1/4" lock nuts)	2
11	Mounting Bracket	1
12	Starter Harness (Power)	1
13	Starter Harness (Dimming)	1
14	Strain Relief Bushing	1
15	Cable Clamp	1



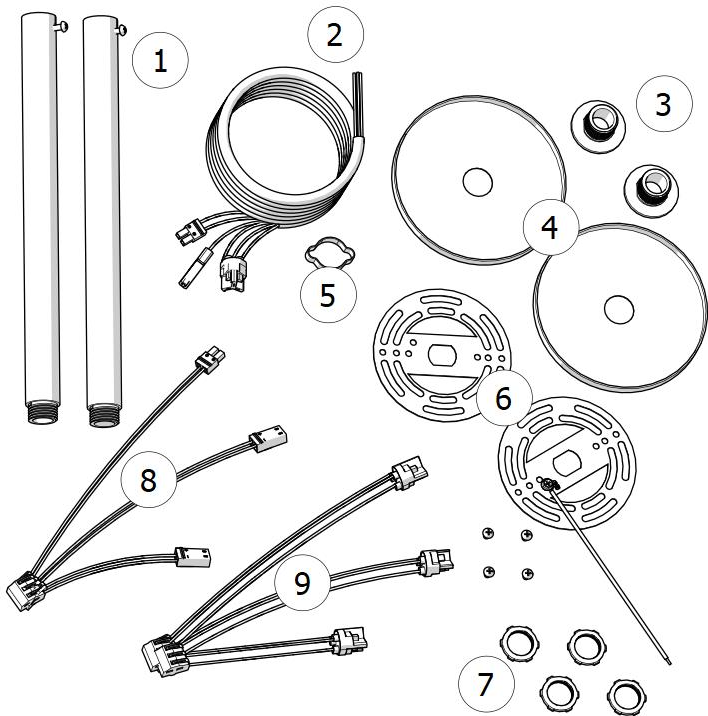
Drop Ceiling

1	Power Cable	1
2	Canopy A	1
3	Canopy B	1
4	Hangar Clips (15/16" and 9/16")	4
5	Threaded Insert	2
6	Threaded Base	2
7	Cable Crimp	1
8	Mounting Cables (with 1/4" lock nuts)	2
9	Starter Harness (Power)	1
10	Starter Harness (Dimming)	1
11	Strain Relief Bushing	1
12	Cable Clamp	1



Stem

1	1ft or 2ft Stem	2
2	Power Cable	1
3	Stem Holder	2
4	Canopy C	2
5	Cable Clamp	1
6	Mounting Bracket	2
7	1/2" NPT Lock Nut	4
8	Starter Harness (Dimming)	1
9	Starter Harness (Power)	1

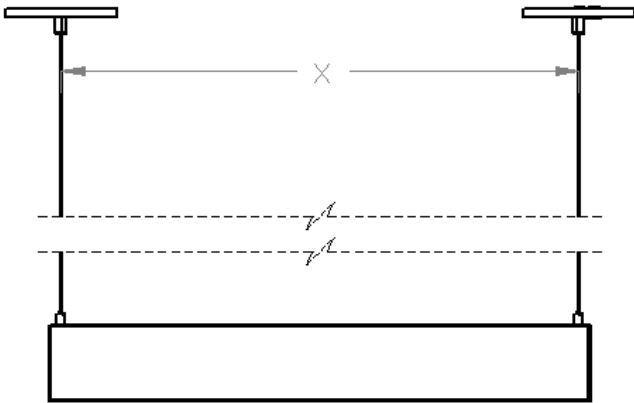


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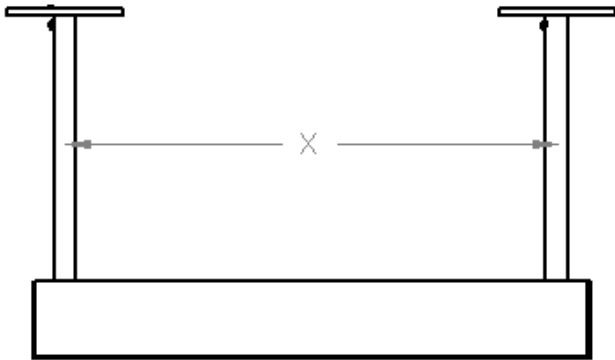
Mount Spacing Diagrams

Single

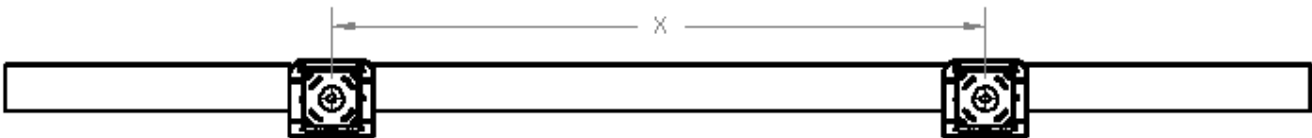
Cable



Stem Mount

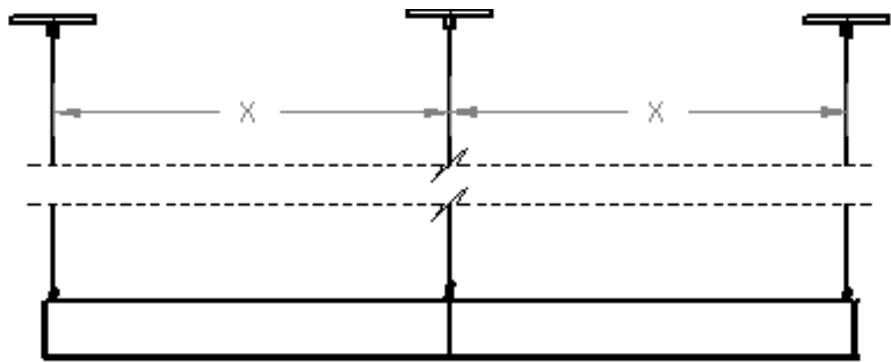


Wall Mount (> 4ft)

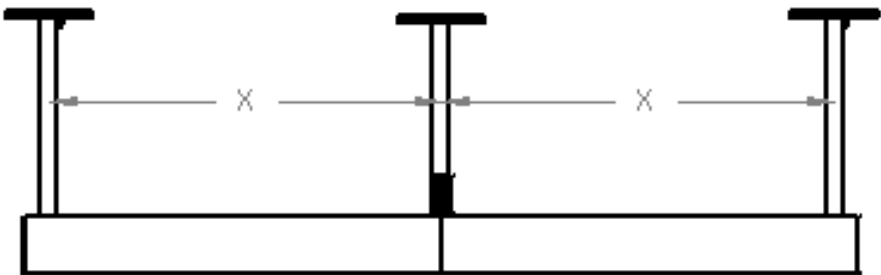


Continuous

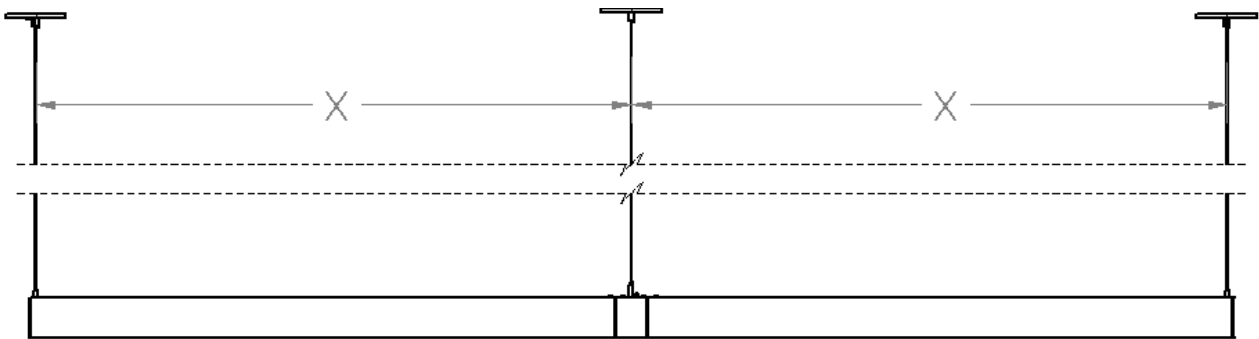
Linear Cable Mount



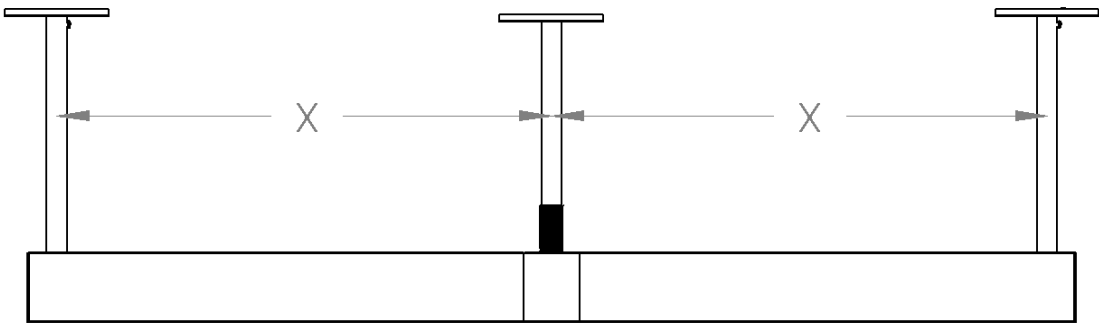
Linear Stem Mount



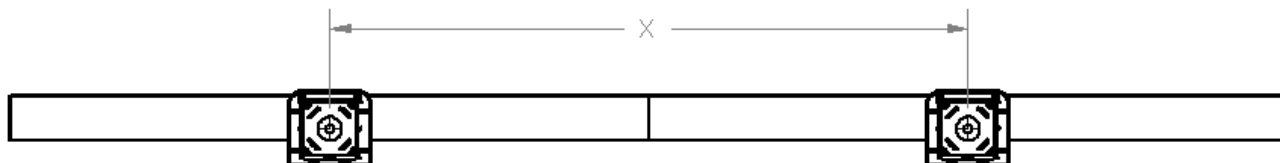
Linear Cable (with Control Box)



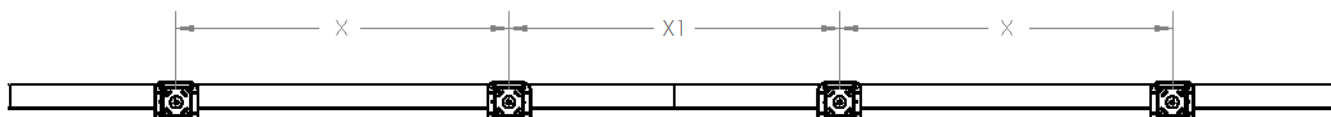
Linear Stem (with Control Box)



Linear Wall Mount (≤ 4ft)



Linear Wall Mount (> 4ft)



X dimension (inches)							
NOTE Tolerance for all dimensions is ±0.0625" (1/16")		Nominal Fixture Length					
		2 ft	3 ft	4 ft	5 ft	6 ft	8 ft
Single	Cable Mount	23.1	35.2	47.2	59.2	71.2	95.2
	Stem Mount	21.4	33.3	45.4	57.4	69.4	93.4
	Wall Mount				30.1	36.1	48.1
Continuous	Cable Mount	23.6*	35.6*	47.6*	59.6*	71.6*	95.6*
	Stem Mount	22.7*	34.6*	46.7*	58.7*	70.7*	94.7*
	Wall Mount	24.0**	36.0**	48.0**	30.1	36.1	48.1
	X1 dimension (inches) <i>for Wall Mounting 5ft, 6ft, and 8ft</i>				29.9**	35.9**	47.9**
If installing a Control Box in a continuous run: * Add 1.375" (1-3/8") or ** Add 2.75" (2-3/4")							

Adjustments

Cable Mount

1. Depress the small button on the Mounting Cable, this will release the aircraft cable. [Figure A1]
2. Adjust the cable to the desired length. [Figure A1]
3. Cut the cable and use a **Cable Crimp** to secure the Mounting Cable. [Figure A2]

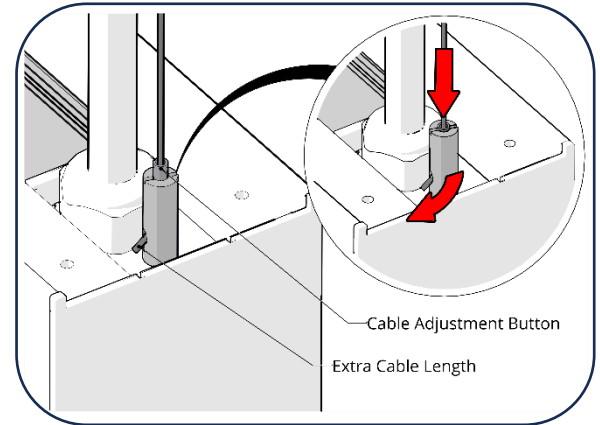


Figure A1

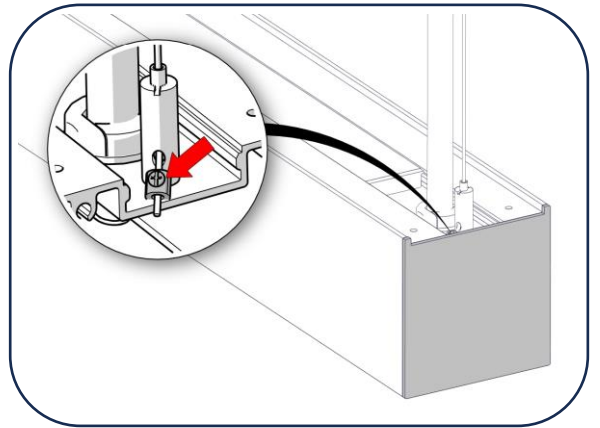


Figure A2

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Maximum Continuous Run Length

7L Continuous Run
Max. Input Current: 6A

SUPPLY VOLTAGE: 120VAC					
Fixture Length (ft)	Style	Lumen Package	Max. Fixture Quantity	Total Wattage (W)	Max. Run Length (ft)
2	Downlight	7L	54	712.8	108
2	Up/Down	7L	27	712.8	54
3	Downlight	7L	36	712.8	108
3	Up/Down	7L	18	712.8	54
4	Downlight	7L	27	712.8	108
4	Up/Down	7L	13	686.4	52
5	Downlight	7L	21	693	105
5	Up/Down	7L	10	660	50
6	Downlight	7L	18	712.8	108
6	Up/Down	7L	9	712.8	54
8	Downlight	7L	13	686.4	104
8	Up/Down	7L	6	633.6	48

SUPPLY VOLTAGE: 277VAC					
Fixture Length (ft)	Style	Lumen Package	Max. Fixture Quantity	Total Wattage (W)	Max. Run Length (ft)
2	Downlight	7L	125	1650.0	250
2	Up/Down	7L	62	1636.8	124
3	Downlight	7L	83	1643.4	249
3	Up/Down	7L	41	1623.6	123
4	Downlight	7L	62	1636.8	248
4	Up/Down	7L	31	1636.8	124
5	Downlight	7L	50	1650.0	250
5	Up/Down	7L	25	1650.0	125
6	Downlight	7L	41	1623.6	246
6	Up/Down	7L	20	1584.0	120
8	Downlight	7L	31	1636.8	248
8	Up/Down	7L	15	1584.0	120

10L Continuous Run
Max. Input Current: 6A

SUPPLY VOLTAGE: 120VAC					
Fixture Length (ft)	Style	Lumen Package	Max. Fixture Quantity	Total Wattage (W)	Max. Run Length (ft)
2	Downlight	10L	36	712.8	72
2	Up/Down	10L	18	712.8	36
3	Downlight	10L	24	712.8	72
3	Up/Down	10L	12	712.8	36
4	Downlight	10L	18	712.8	72
4	Up/Down	10L	9	712.8	36
5	Downlight	10L	14	693	70
5	Up/Down	10L	7	693	35
6	Downlight	10L	12	720	72
6	Up/Down	10L	6	712.8	36
8	Downlight	10L	9	712.8	72
8	Up/Down	10L	4	633.6	32

SUPPLY VOLTAGE: 277VAC					
Fixture Length (ft)	Style	Lumen Package	Max. Fixture Quantity	Total Wattage (W)	Max. Run Length (ft)
2	Downlight	10L	83	1643.4	166
2	Up/Down	10L	41	1623.6	82
3	Downlight	10L	55	1633.5	165
3	Up/Down	10L	27	1603.8	81
4	Downlight	10L	41	1623.6	164
4	Up/Down	10L	20	1584	80
5	Downlight	10L	33	1633.5	165
5	Up/Down	10L	16	1584	80
6	Downlight	10L	27	1603.8	162
6	Up/Down	10L	13	1544.4	78
8	Downlight	10L	20	1584	160
8	Up/Down	10L	10	1584	80

13L Continuous Run
Max. Input Current: 6A

SUPPLY VOLTAGE: 120VAC					
Fixture Length (ft)	Style	Lumen Package	Max. Fixture Quantity	Total Wattage (W)	Max. Run Length (ft)
2	Downlight	13L	27	712.8	54
2	Up/Down	13L	13	686.4	26
3	Downlight	13L	18	712.8	54
3	Up/Down	13L	9	712.8	27
4	Downlight	13L	13	686.4	52
4	Up/Down	13L	6	633.6	24
5	Downlight	13L	10	660	50
5	Up/Down	13L	5	660	25
6	Downlight	13L	9	712.8	54
6	Up/Down	13L	4	633.6	24
8	Downlight	13L	6	633.6	48
8	Up/Down	13L	3	633.6	24

SUPPLY VOLTAGE: 277VAC					
Fixture Length (ft)	Style	Lumen Package	Max. Fixture Quantity	Total Wattage (W)	Max. Run Length (ft)
2	Downlight	13L	62	1636.8	124
2	Up/Down	13L	31	1636.8	62
3	Downlight	13L	41	1623.6	123
3	Up/Down	13L	20	1584	60
4	Downlight	13L	31	1636.8	124
4	Up/Down	13L	15	1584	60
5	Downlight	13L	25	1650	125
5	Up/Down	13L	12	1584	60
6	Downlight	13L	20	1584	120
6	Up/Down	13L	10	1584	60
8	Downlight	13L	15	1584	120
8	Up/Down	13L	7	1478.4	56

Note: All run lengths are calculated per power feed. Fixture runs may be longer when additional power feeds are provided and installed appropriately.