

chute

Installation Instructions



Grid Installation.....	2
Flanged (FL) Inaccessible Installation.....	3-4
Spackle Flange (SF) Inaccessible Installation.....	5
CHUTE 180 Spackle Flange (SF) Inaccessible Installation.....	6
Recessed to Suspended Installation.....	7
AC Cable Installation.....	8
Power Over AC Cable Installation.....	9
Surface Mount Installation.....	10
L Hub.....	11
Y Hub.....	12
T Hub.....	13
X Hub.....	14
Joint Details.....	15
Remote Box Details.....	16
Reflector Details.....	17

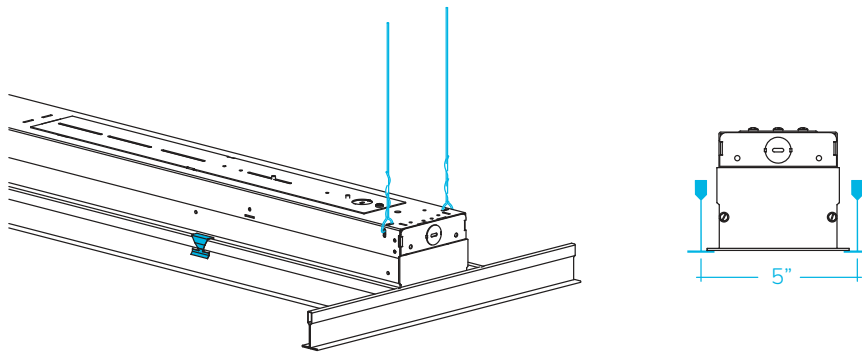
Designed in Denver, CO • USA | pinnacle-ltg.com | O: 303-322-5570 | F: 303-322-5568

A brand of **legrand®**

DISCLAIMERS | This product must be installed in accordance with applicable installation and electrical codes by a professional familiar with the construction and operation of the product. + Minimum 90° C supply conductor. + All electrical connections must be performed by a certified electrician to applicable local and national electrical codes. + Damaged components must never be used. + Contact Pinnacle prior to making any fixture alterations. + Contact Pinnacle with any installation questions or field issues.

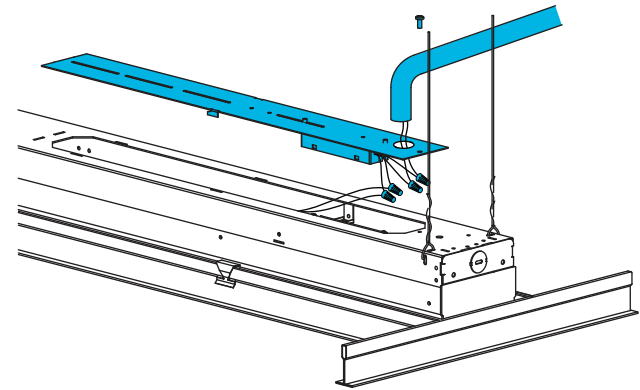
1 Grid Preparation and Installation

Prepare grid to the width needed to accommodate the fixture. Install four grid clips (2 per side) on each fixture. Place fixture into grid opening and tie off fixture to support.



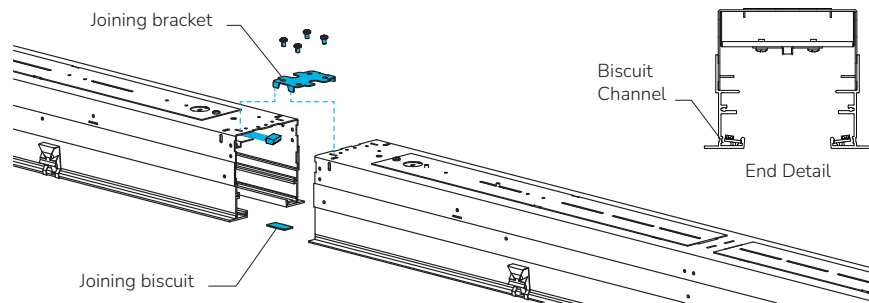
2 Power

Remove Access Plate via one screw. Make wiring connections to building power and replace Access Plate.



3 Joining

Make wiring connections between fixtures, insert joining biscuits in to one fixture, slide fixtures together, and secure using joining bracket and four screws.

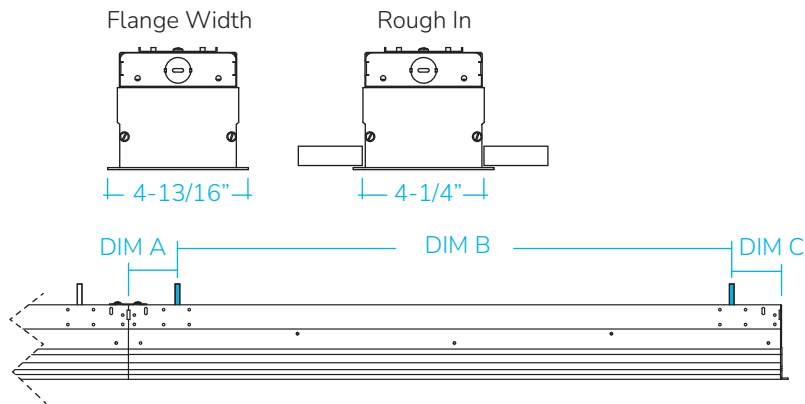


chute

Flanged (FL) Installation

1 Layout + Dimensions

Rough in fixture opening and install 1/4"-20 hardware (by others) according to tables to the right. Fixture length can be found on label inside fixture. Rough-in for length is Row or Fixture Length + 3/8".

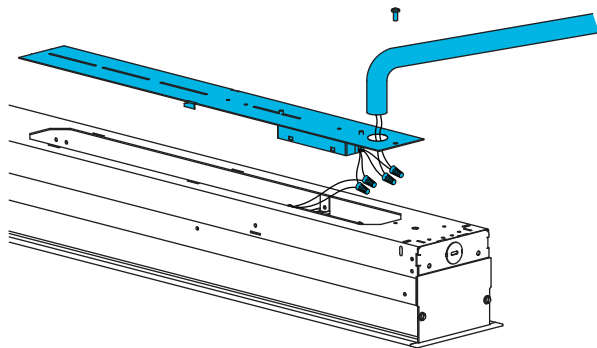


Threaded Rod Locations

Length	Dim "A"	Dim "B"	Dim "C"
23"	3/4"	21-1/2"	3/4"
24"	3/4"	22-1/2"	3/4"
35"	2-5/8"	29-3/4"	2-5/8"
36"	2-5/8"	30-3/4"	2-5/8"
47"	2-5/8"	41-3/4"	2-5/8"
48"	2-1/8"	43-3/4"	2-1/8"
59"	2-5/8"	53-3/4"	2-5/8"
60"	2-5/8"	54-3/4"	2-5/8"
71"	2-5/8"	66-3/4"	1-5/8"
72"	2-5/8"	66-3/4"	2-5/8"
83"	2-5/8"	78-3/4"	1-5/8"
84"	2-5/8"	79-3/4"	1-5/8"
95"	2-5/8"	90-3/4"	1-5/8"
96"	2-5/8"	90-3/4"	2-5/8"

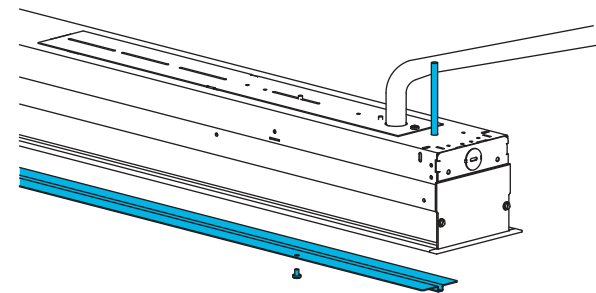
2 Power

Remove Access Plate via one screw. Make wiring connections to building power and replace Access Plate.



3 Individual Fixture

Remove wiring channel cover via #8-23 screws (2 per cover). Mount fixture through mounting hole to 1/4"-20 hardware (by others).

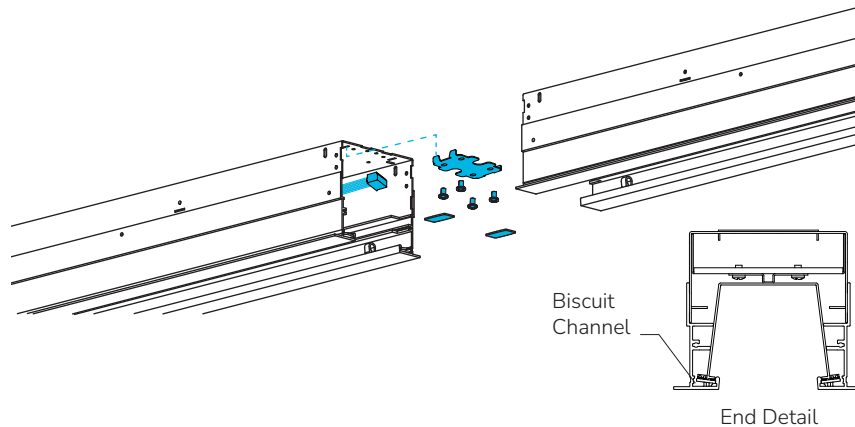


chute

Flanged (FL) Installation

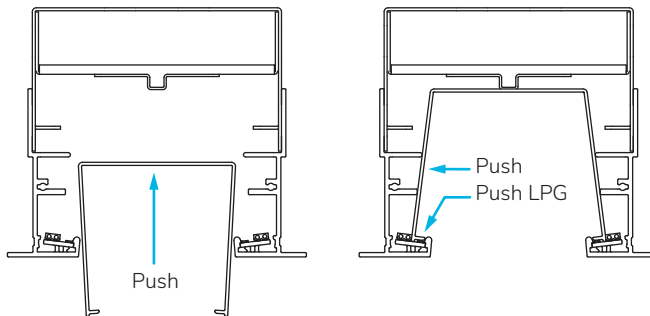
4 Joining Fixtures

Make wiring connections between fixtures, insert joining biscuits in to one fixture, slide fixtures together, and secure using joining bracket and four screws.



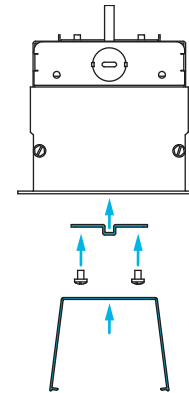
6 Reinstalling the Reflector

Starting at one end of the fixture, push the reflector into the opening of the housing until entirely inside. Starting on one side of the reflector, push leg of reflector into place along entire length of reflector. Run finger along the Light Protection Guard (LPG) to make sure LPG is fully seated along the edge of the housing. Repeat on opposite leg of reflector.



5 Finishing

Re-install wiring channel cover with #8-32 screws. Carefully re-install reflector. (see below)

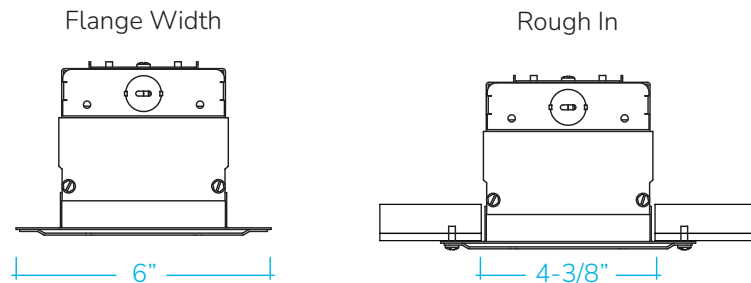


chute

Spackle Flange (SF) Installation

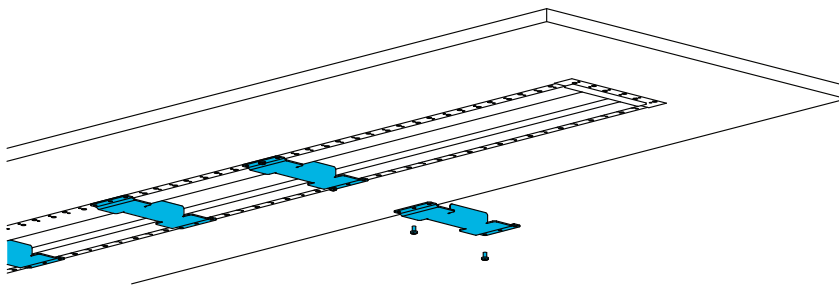
1 Dimensions + Layout

Rough in fixture opening Fixture length can be found on label inside fixture.
Rough-in for length is Row or Fixture Length + 3/8".
Do not screw in to side of housing. Do not remove cross brackets until fixture is installed.



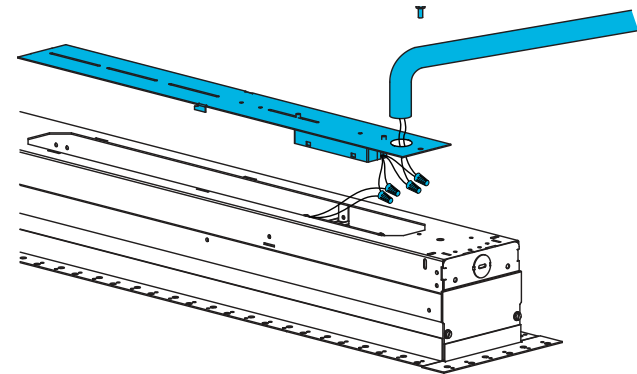
3 Individual Fixture

Mount fixture in rough-in opening using drywall screws placed every foot on both sides, along the length of the fixture/run and two on each end flange. Once mounted, remove cross brackets and discard. If individual fixture, install reflector (detail view on page 4).



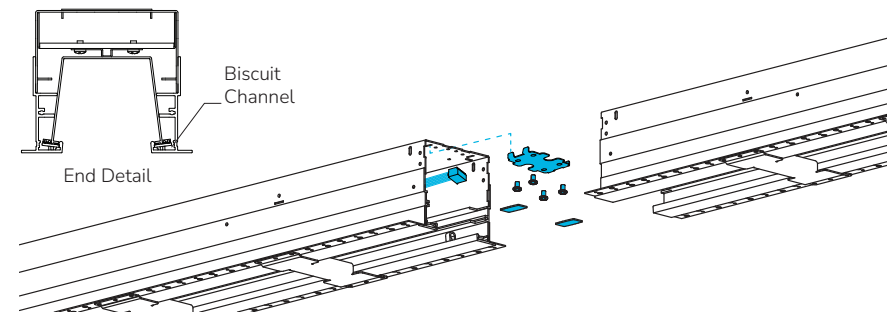
2 Power

Remove Access Plate via one screw. Make wiring connections to building power and replace Access Plate.



4 Joining

Make wiring connections between fixtures, insert joining biscuits, slide fixtures together, and secure using joining bracket and four screws. Once all fixtures in row are installed, install reflectors (detail view on page 4).

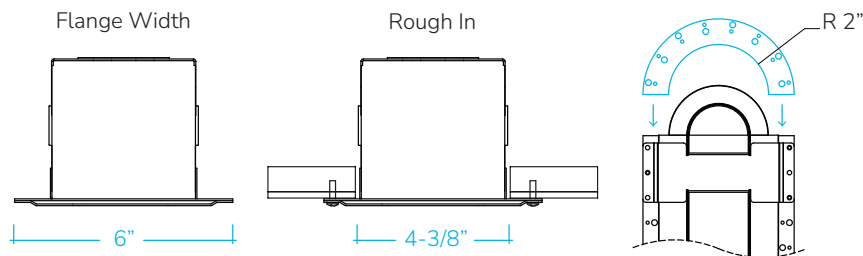


chute

Spackle Flange (SF) Installation

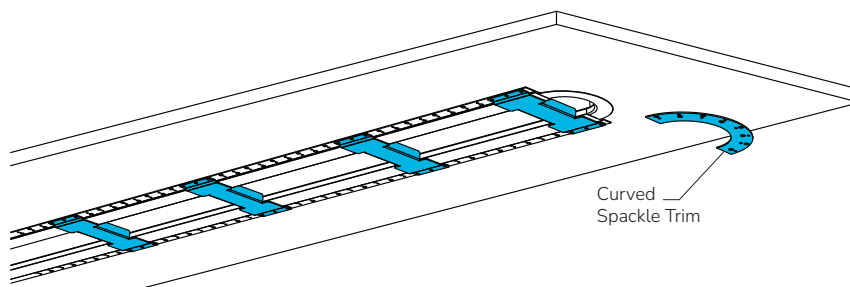
1 Dimensions + Layout

Rough in fixture opening Fixture length can be found on label inside fixture. Rough-in for length is Row or Fixture Length + 3/8". Curved fixtures ends have a 2" radius, the Curved Spackle End can be used to outline the rough in opening for the ends. *Do not screw in to side of housing. Do not remove cross brackets until fixture is installed.*



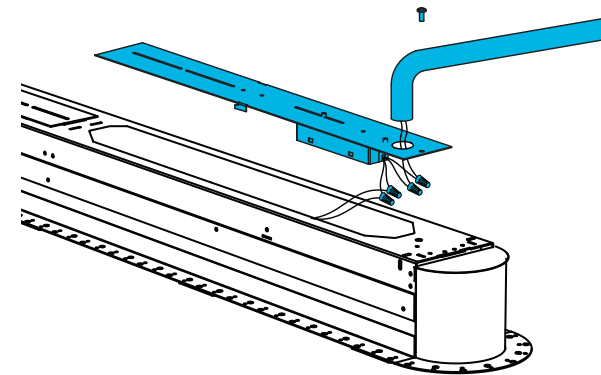
3 Individual Fixture

Mount fixture in rough-in opening using drywall screws placed every foot on both sides, along the length of the fixture/run. Curved Spackle Trim is installed separately, one per end. Butt the Curved Spackle Trim up to the fixture, to serve as mud flange and screw into drywall. Once mounted, remove cross brackets and discard. For individual fixtures, install reflector (detail view on page 4).



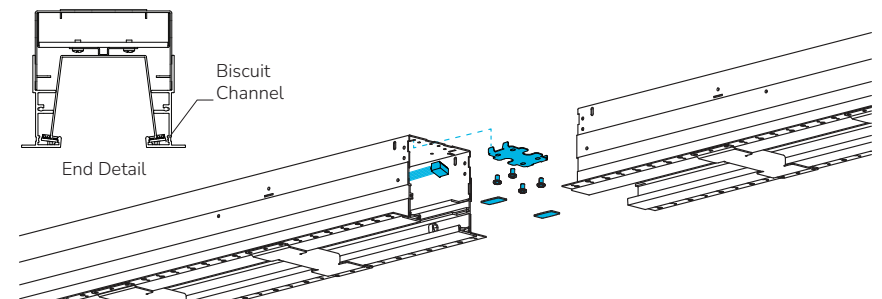
2 Power

Remove Access Plate via one screw. Make wiring connections to building power and replace Access Plate.



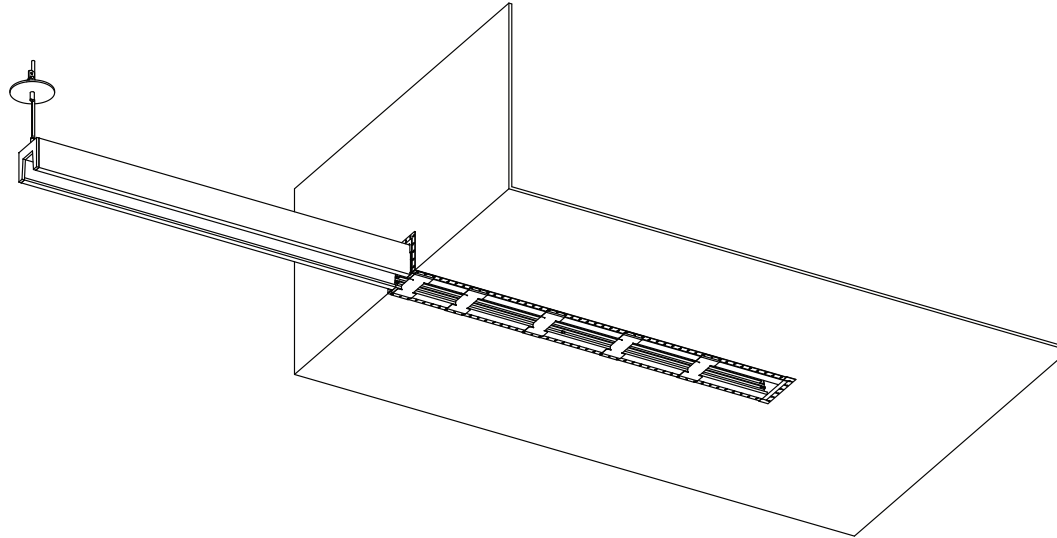
4 Joining

Make wiring connections between fixtures, insert joining biscuits, slide fixtures together, and secure using joining bracket and four screws. Once all fixtures in row are installed, install reflectors (detail view on page 4).



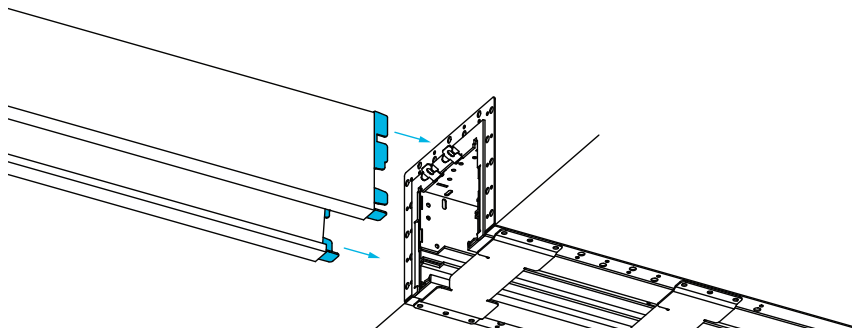
chute

Recessed to Suspended



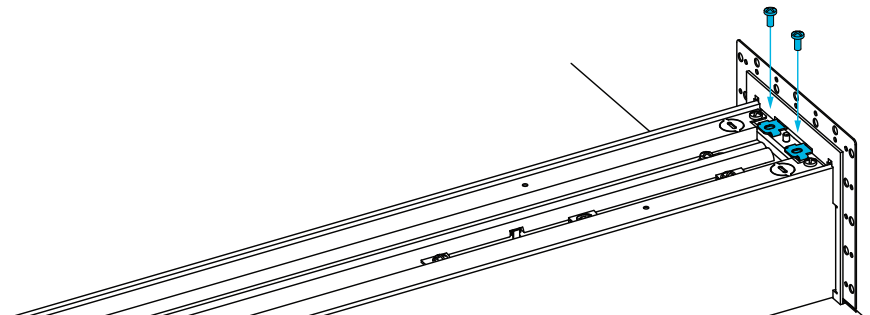
1 Align Suspended + Recessed Fixtures

Install recessed housing as normal (see spackle flange installs pg. 5). Mount far end of suspended fixture using AC cable install instructions (see pg. 7). Slide fixtures together aligning the light blockers with the slots in the recessed fixture.



2 Secure Together

Bend the two joiner tabs down and drive 2x #8-32x3/8 screws (in mounting hardware) to make joint. Level suspended fixture in-line with the recessed fixture. Finish the joint with a bead of silicon (by others) on each side of the recessed to suspended joint.



1 Layout

Lay out mounting and J-Box locations.

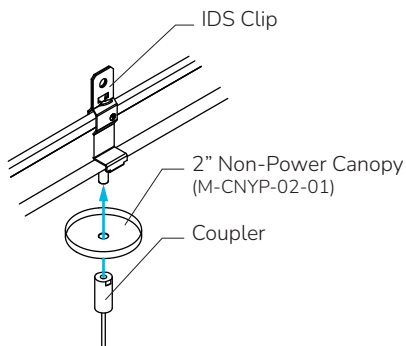
Mount Spacing
Aircraft Cable Examples



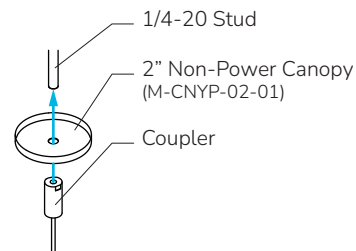
Fixture	Dim "A"	Dim "B"
2'	23-9/16"	24"
3'	35-9/16"	36"
4'	47-9/16"	48"
5'	59-9/16"	60"
6'	71-9/16"	72"
7'	83-9/16"	84"
8'	95-9/16"	96"

3 Non-Power Mount

Install 1/4"-20 stud (by others) or IDS Clip (by others) for non-power mounts (1/2" below ceiling plane). Secure canopy to stud or IDS clip using coupler.



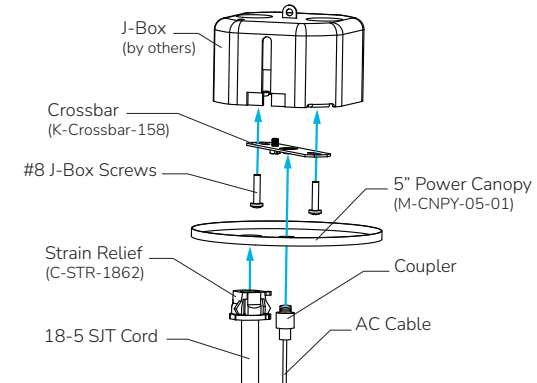
Grid Mounting



Inaccessible Mounting

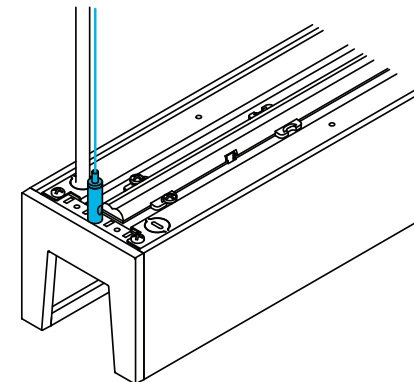
2 Power Side Mount

Install crossbar to J-Box (by others). Run SJT cord through canopy, secure with strain relief, and make wiring connections inside of J-Box. Feed aircraft cable through coupler, secure canopy to crossbar using coupler.



4 Mounting Fixture

Attach gripper to stud at each end of fixture. Level fixture. If part of a run, see page 5 for joining instructions.



1 Layout

Lay out mounting and J-Box locations.

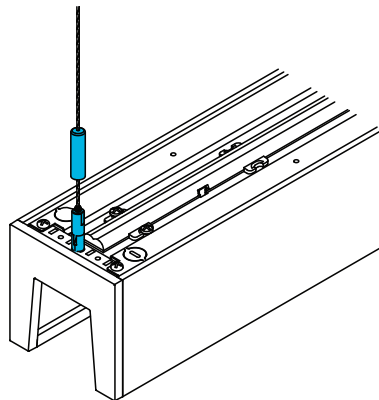
Mount Spacing
Aircraft Cable Examples



Fixture	Dim "A"
2'	23-9/16"
3'	35-9/16"
4'	47-9/16"
5'	59-9/16"
6'	71-9/16"
7'	83-9/16"
8'	95-9/16"

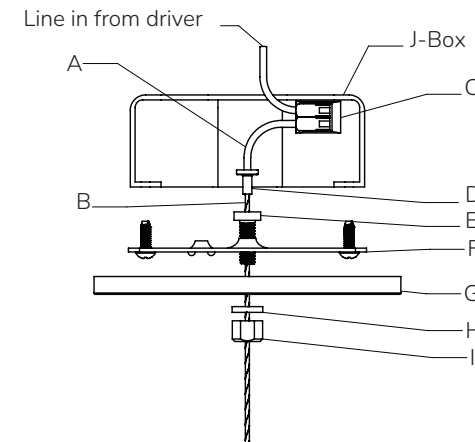
3 Fixture Mounting

Unscrew and slide cover up. Insert the positive AC Cable into the Gripper labeled "+" and the negative AC Cable into the Gripper labeled "-". Level fixture. Trim AC Cable. Reinstall Cover.



2 Ceiling Side Mounting

Slide insulation tube (A) onto cable stub (B) above swaged T sleeve (D) leaving 1/2" max. of cable stub exposed. Connect exposed cable stub to one of driver leads via WAGO (C) or similar connector inside J-Box. Feed free end of cable through insulated threaded sleeve (E) until swaged T sleeve (D) sits in insulated sleeve (E). Thread sleeve (E) and cable into bracket bar (F). Mount bracket bar assembly to J-Box. Feed free end of cable through canopy (G), plastic flat washer (H) and screw on cap (I) until canopy is firmly mounted to ceiling.



Important Safety Instructions | Save These Instructions

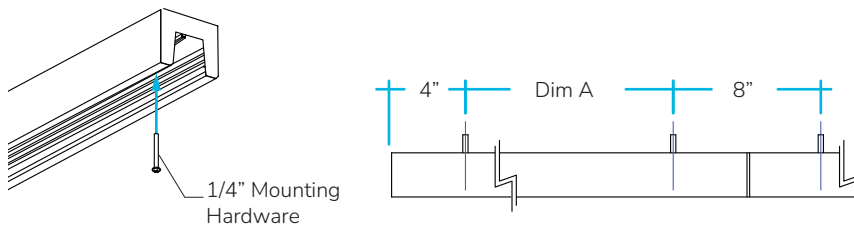
- Read all instructions.
- Do not conceal or extend exposed conductors through a building wall.
- Do not install this system in wet locations.
- To reduce the risk of fire and burns, do not install this lighting system where the exposed bare conductors can be shorted or contact any conductive materials.
- Do not install any luminaire closer than 6 in. (152mm) from any curtain, or similar combustible materials.
- Turn off electrical power before modifying the lighting system in any way.
- [For low voltage exposed insulated conductor systems required by 30.1(c):] Do not install any part of this system less than 7 ft (2.2m) above the floor.

chute

Surface Mount Installation

1 Mounting Fixture

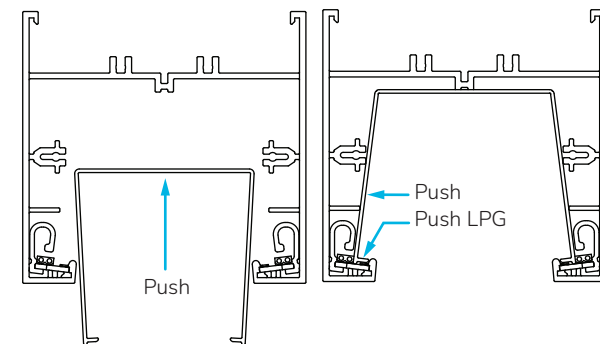
Install 1 remote box per fixture. Ensure proper support above fixture (see mounting chart). Using 1/4"-20 hardware (by others), attach fixture to ceiling. If installing a run, see page 5 for joint details.



Fixture	2'	3'	4'	5'	6'	7'	8'
Dim "A"	23-9/16"	35-9/16"	47-9/16"	59-9/16"	71-9/16"	83-9/16"	95-9/16"

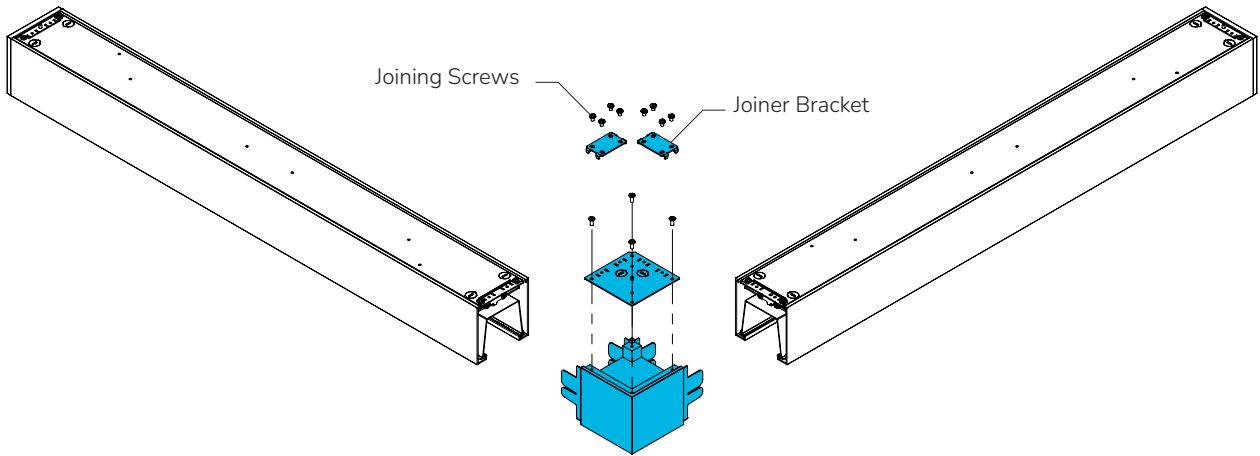
2 Installing the Reflector

Starting at one end of the fixture, push the reflector into the opening of the housing until entirely inside. Starting on one side of the the reflector, push leg of reflector into place along entire length of reflector. Run finger along the Light Protection Guard (LPG) to make sure LPG is fully seated along the edge of the housing. Repeat on opposite leg of reflector.

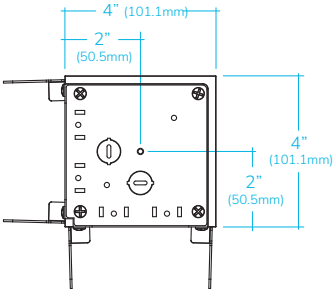
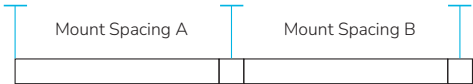


1 L Connector Piece

Layout run and install AC mounting hardware (note: corner has one mounting point). Make electrical connection between first fixture and corner using supplied leads. Attach corner to first fixture using 4x supplied joining screws and joiner bracket. Hang combined corner and first fixture via AC mounting instructions (see page 7). Hang second fixture and wire it to the corner then join to the corner using 4x supplied joining screws and bracket. For detailed joining instructions see pg 14.

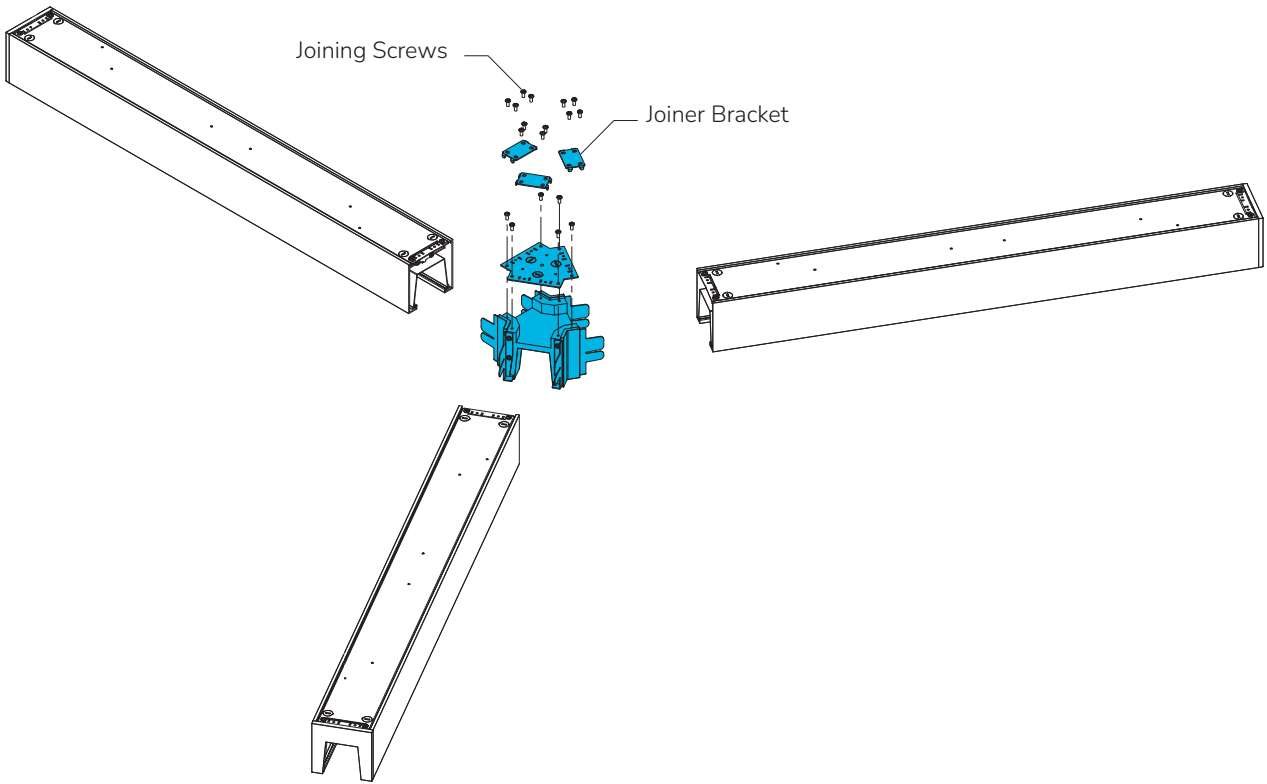


Fixture	Dim "A"	Dim "B"
2'	25-3/4"	28"
3'	37-3/4"	40"
4'	49-3/4"	52"
5'	61-3/4"	64"
6'	73-3/4"	76"
7'	85-3/4"	88"
8'	97-3/4"	100"

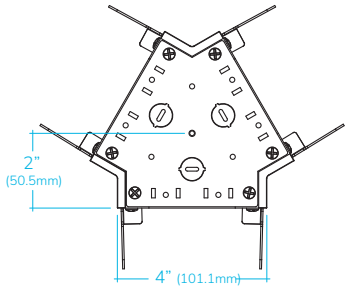
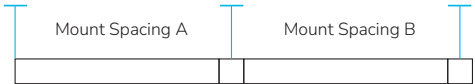


1 Y Connector Piece

Layout run and install AC mounting hardware (note: corner has one mounting point). Make electrical connection between first fixture and corner using supplied leads. Attach corner to first fixture using 4x supplied joining screws and joiner bracket. Hang combined corner and first fixture via AC mounting instructions (see page 7). Hang second fixture and wire it to the corner then join to the corner using 4x supplied joining screws and bracket. For detailed joining instructions see pg 14.

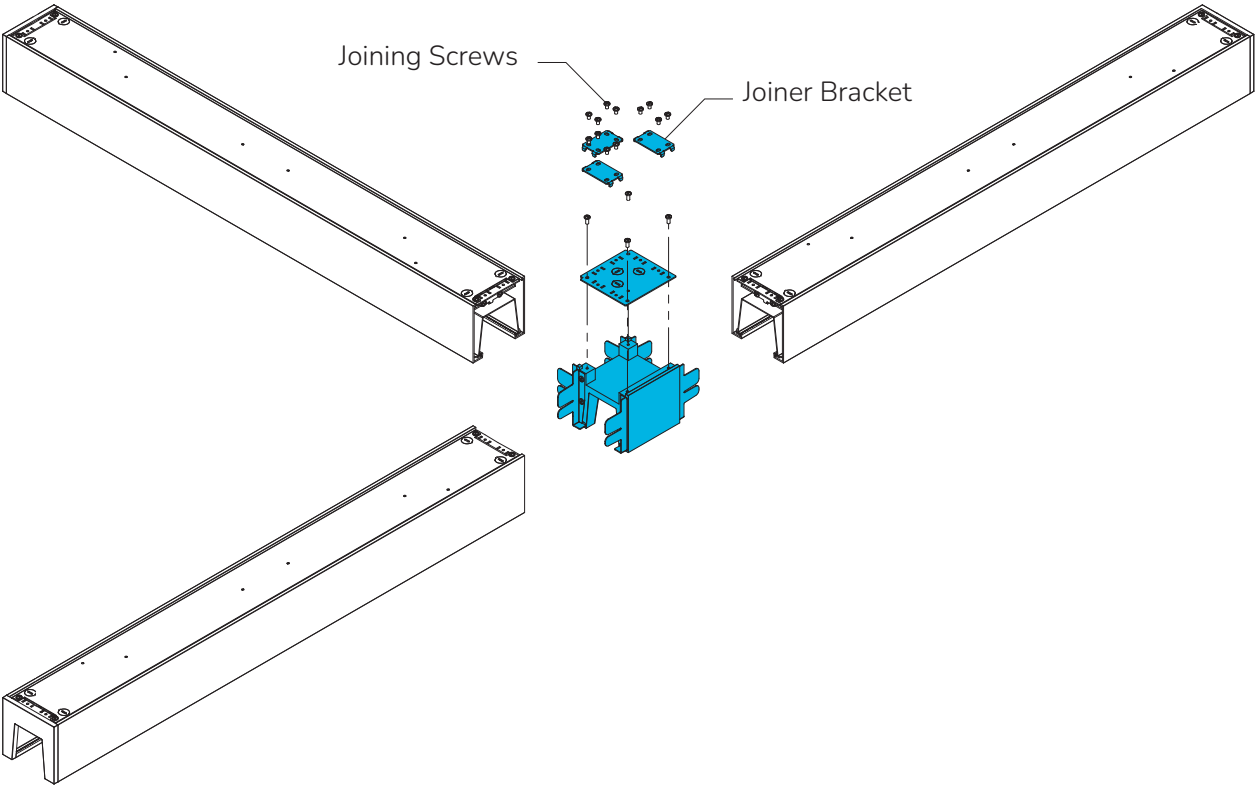


Fixture	Dim "A"	Dim "B"
2'	25-3/4"	28"
3'	37-3/4"	40"
4'	49-3/4"	52"
5'	61-3/4"	64"
6'	73-3/4"	76"
7'	85-3/4"	88"
8'	97-3/4"	100"

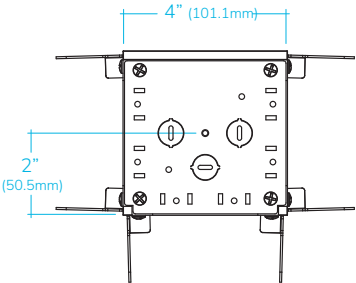
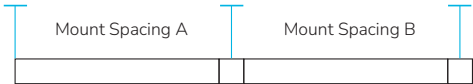


1 T Connector Piece

Layout run and install AC mounting hardware (note: corner has one mounting point). Make electrical connection between first fixture and corner using supplied leads. Attach corner to first fixture using 4x supplied joining screws and joiner bracket. Hang combined corner and first fixture via AC mounting instructions (see page 7). Hang second fixture and wire it to the corner then join to the corner using 4x supplied joining screws and bracket. For detailed joining instructions see pg 14.

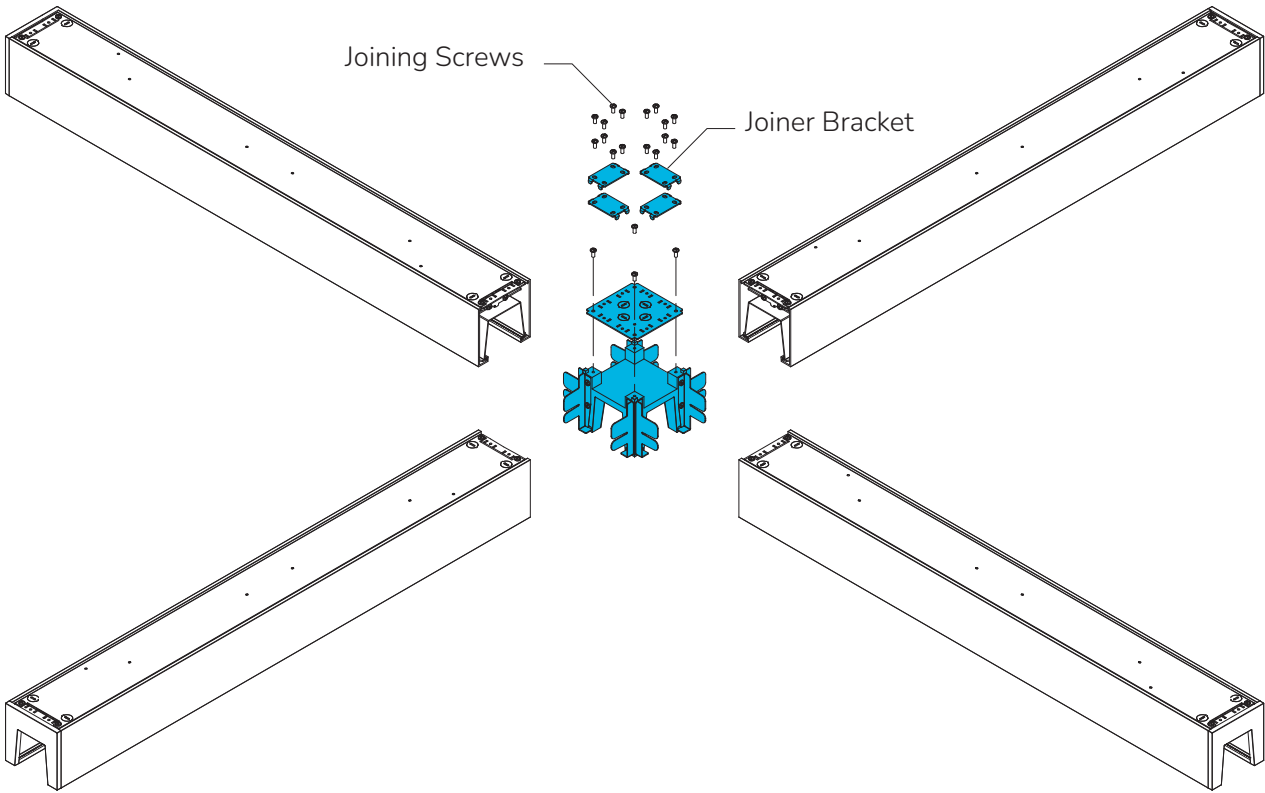


Fixture	Dim "A"	Dim "B"
2'	25-3/4"	28"
3'	37-3/4"	40"
4'	49-3/4"	52"
5'	61-3/4"	64"
6'	73-3/4"	76"
7'	85-3/4"	88"
8'	97-3/4"	100"

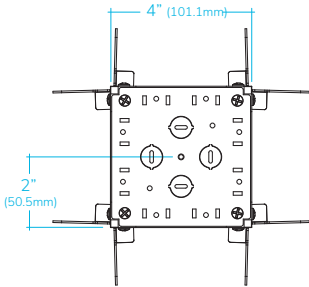
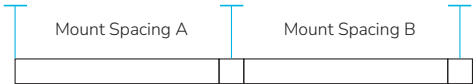


1 X Connector Piece

Layout run and install AC mounting hardware (note: corner has one mounting point). Make electrical connection between first fixture and corner using supplied leads. Attach corner to first fixture using 4x supplied joining screws and joiner bracket. Hang combined corner and first fixture via AC mounting instructions (see page 7). Hang second fixture and wire it to the corner then join to the corner using 4x supplied joining screws and bracket. For detailed joining instructions see pg 14.

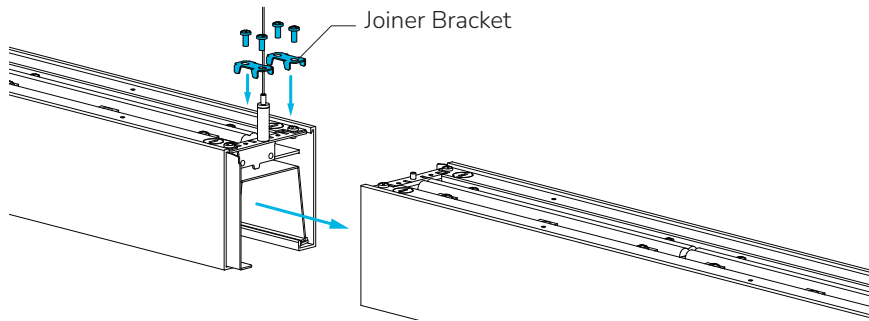


Fixture	Dim "A"	Dim "B"
2'	25-3/4"	28"
3'	37-3/4"	40"
4'	49-3/4"	52"
5'	61-3/4"	64"
6'	73-3/4"	76"
7'	85-3/4"	88"
8'	97-3/4"	100"



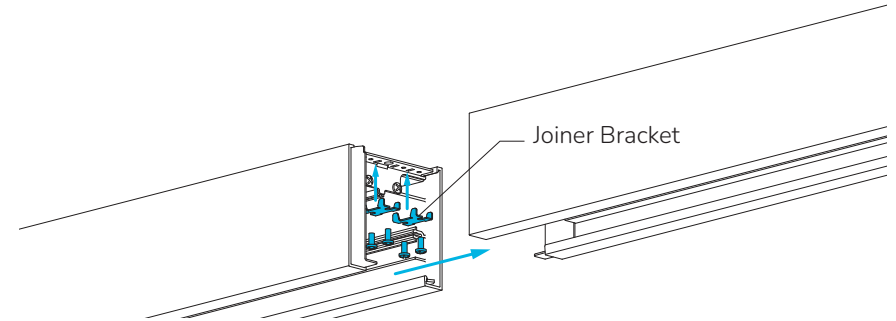
1 Suspended Joining

After first fixture in run is installed, remove joiner top cover from end of first fixture. Suspend second fixture at the opposite end (gripper installation may be required). Raise leading end of second fixture and make electrical connections between fixtures. Align to the second fixture and slide together. Secure fixtures together with supplied joiner brackets and screws. Level fixtures to insure there are no gaps between the joined fixtures, as this could cause undesirable light leaks.



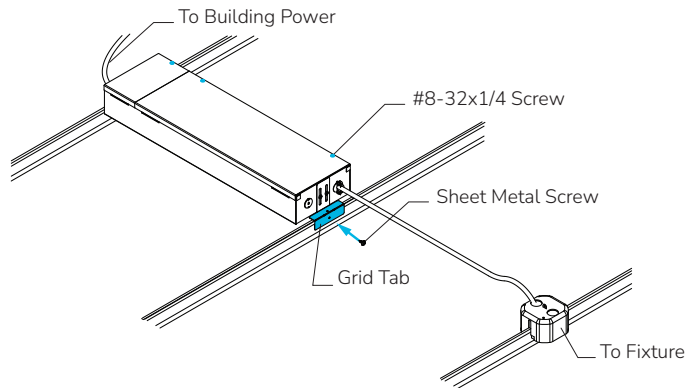
2 Surface Mount Joining

After first fixture in run is installed, secure opposite end of additional fixture with 1/4"-20 hardware. Raise leading end of additional fixture and make electrical connections between fixtures. Align to the second fixture and slide together. Secure fixtures together with supplied joiner brackets and screws. After fixtures are joined install reflectors, see page 16 for details.



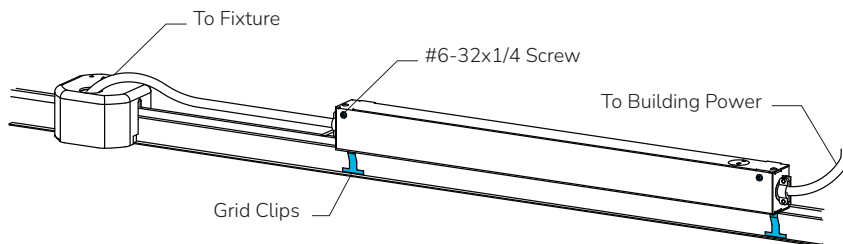
1 Standard Remote Box to Grid

Place Remote Driver Box onto grid and bend grid tabs over securing with #8 Sheet Metal Screw. To open remote box remove three #8-32x1/4 screws on top of box. Use 1/2" Trade Knock out on high voltage side to connect to building power. Use 2' long Flexwhip to bring power to J-Box.



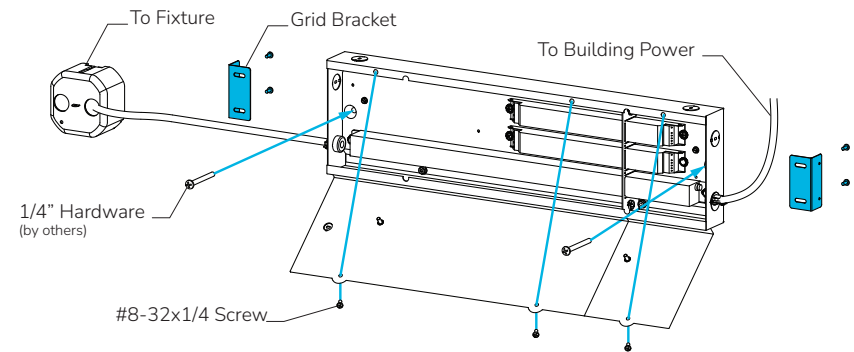
3 Slim Remote Box to Grid

Install slim remote driver box onto grid using pre-installed grid clips. To open remote box remove two #6-32x1/4 screws on top of box. Use 1/2" trade knockout on high voltage side to connect to building power. Use 2' long Flexwhip to bring power to J-Box.



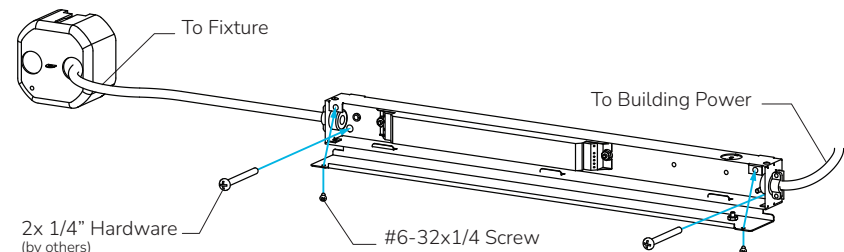
2 Standard Remote Box to Surface

Remove Grid Brackets on sides of Remote Driver Box. Open Remote Driver Box by removing three #8-32x1/4 screws on top of box. Install Remote Driver box to surface using 1/4" Mounting Hardware. Use 1/2" Trade Knock out on high voltage side to connect to building power. Use 2' long Flexwhip to bring power to J-Box.



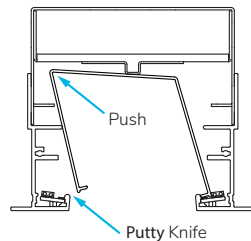
4 Slim Remote Box to Surface

Remove two grid brackets on back of remote driver box. Open remote driver box by removing two #6-32x1/4 screws on top of box. Install remote driver box to surface using 1/4" mounting hardware (by others). Using 1/2" trade knockout on high voltage side connect to building power. Use 2' long Flexwhip to bring power to J-Box.



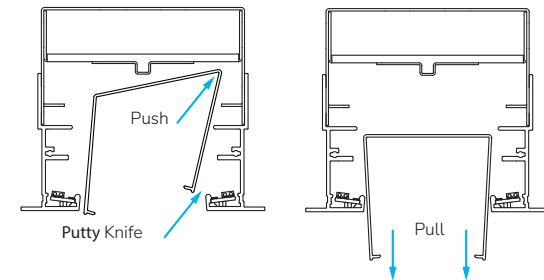
1 Removing the Reflector

Starting at one end of the fixture, push the reflector into the upper corner the housing allowing the leg of the reflector to come lose. Slide a putty knife along the bottom length of the fixture to fully free the leg of the reflector.



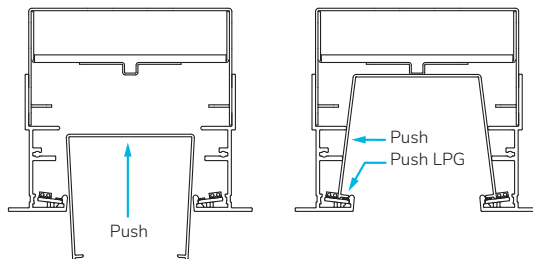
2 Removing the Reflector

Once the first leg is free repeat on the other side of the reflector. Once both legs are free from the fixture starting at one end pull straight down on the reflector working your way down the length of the fixture, be careful not to damage the reflector.



3 Installing the Reflector

Starting at one end of the fixture, push the reflector into the opening of the housing until entirely inside. Starting on one side of the the reflector, push leg of reflector into place along entire length of reflector. Run finger along the Light Protection Guard (LPG) to make sure LPG is fully seated along the edge of the housing. Repeat on opposite leg of reflector.



Disclaimers

All of Pinnacle's packaging is recyclable with the exception of the straps on the pallets. Please reach out to the factory if you need assistance in recycling any packaging components. This product must be installed in accordance with applicable installation and electrical codes by a professional familiar with the construction and operation of the product. Minimum 90° C supply conductor.

All electrical connections must be performed by a certified electrician to applicable local and national electrical codes. Damaged components must never be used. Contact Pinnacle prior to making any fixture alterations. Contact Pinnacle with any installation questions or field issues.