

## Installation Instructions

Luminaires must be installed by a qualified electrician. Check with local and national codes for proper installation.



**Never connect a live fixture!!!**

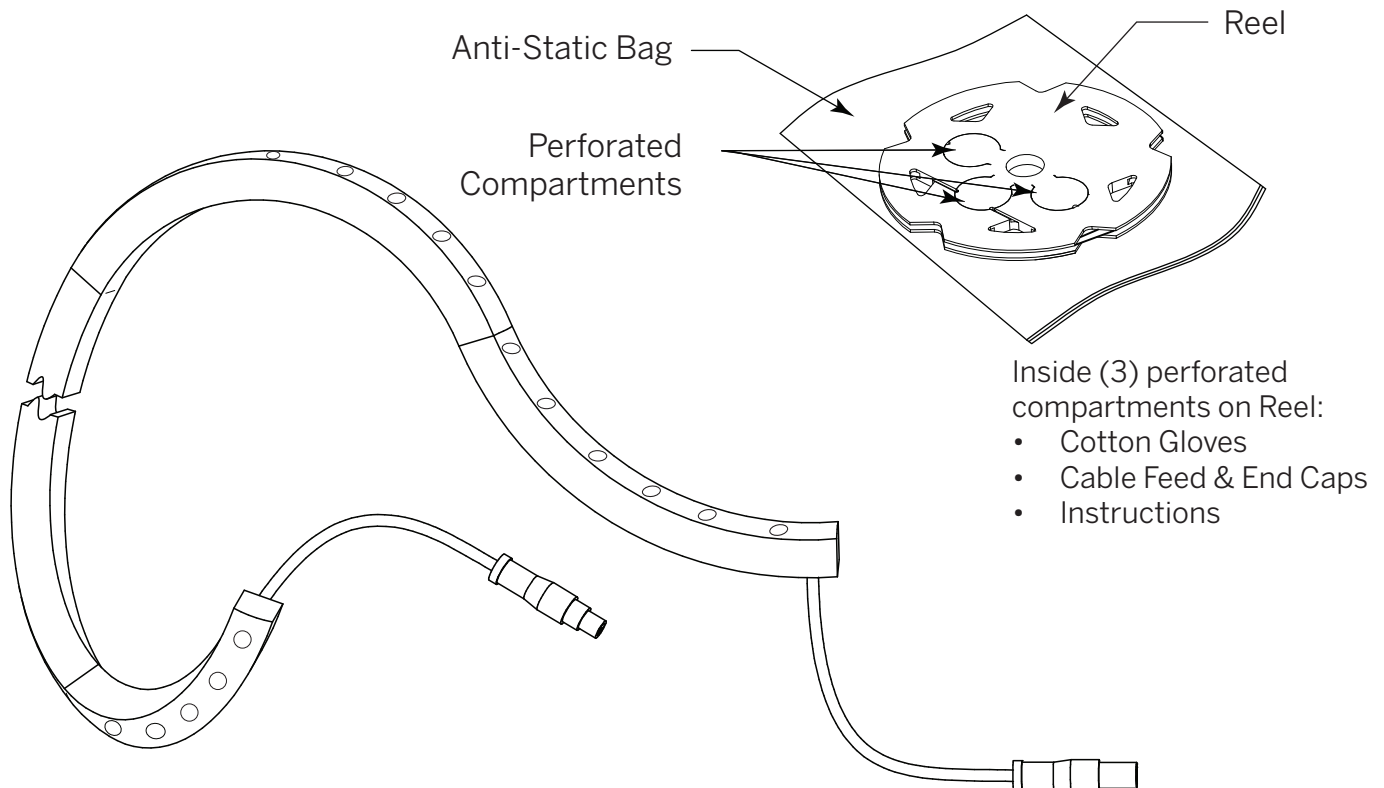
To prevent electrical shock  
disconnect electrical supply  
before installation or servicing.

**Never connect a fixture to a live driver!!!**

Contractor is responsible for adequately reinforcing walls and/or ceilings to support fixture weight. Provide blocking when necessary.

### Step 1 - *Open the Box*

- a** Unpack Luminaire unit(s). The Rubber 3D Optic Luminaire is unique among our many offerings and requires special handling during installation. 39.4" (Nominal 1m) lengths are supplied in Tubes; 59.1" (Nominal 1.5m) and 118.1" (Nominal 3m) lengths are supplied on a Reel, packed in a large anti-static bag. Remote drivers and housings are ordered separately.



- b** Read instructions **thoroughly** before beginning installation.
- c** Put on supplied cotton knit glove.

Actual Luminaire Lengths:

39.4" = 1000mm  
59.1" = 1500mm  
118.1" = 3000mm

Need  
Help?

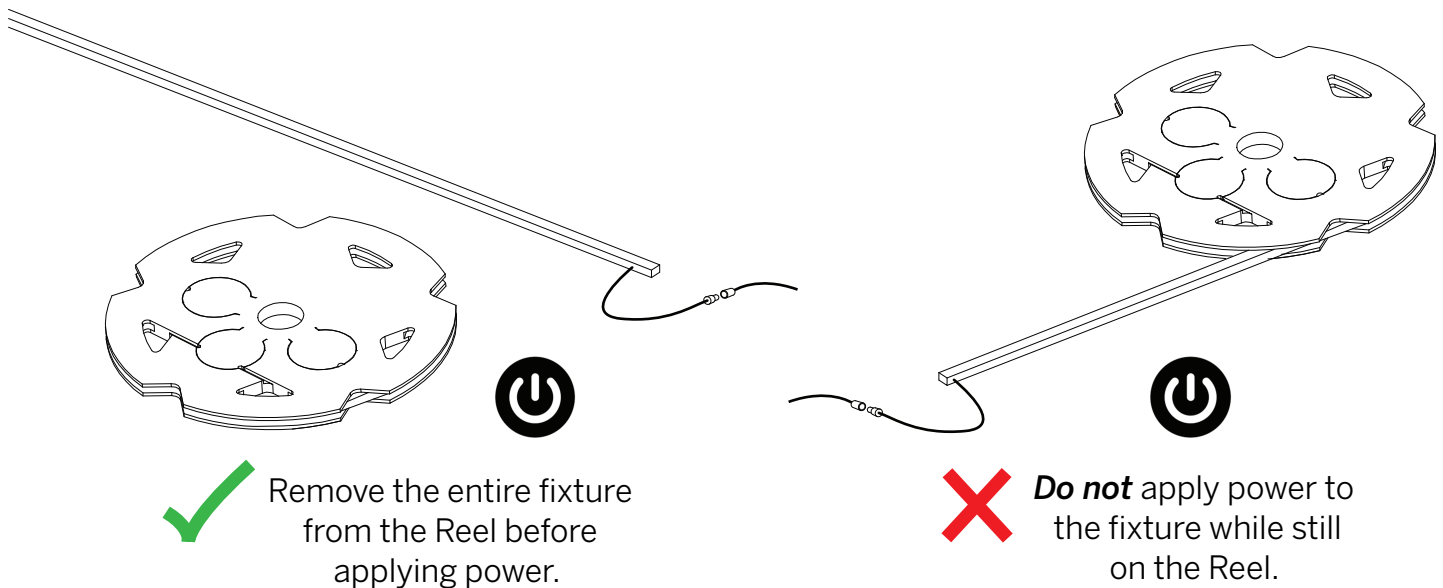
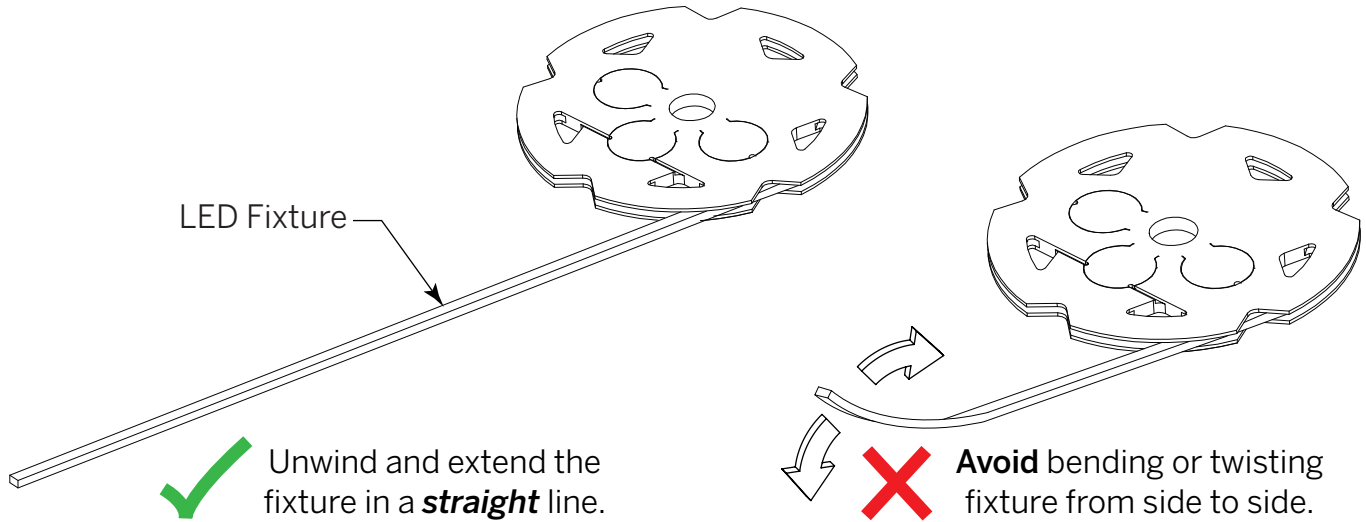
**IMPORTANT:** As a flexible product, installation should not be attempted by one person working alone.

## Installation Instructions

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### Step 2 - *Recommended Practices in Handling Fixture*

Open the Bag and lay Reel on work surface



Heat buildup may damage LED electronics

Need  
Help?

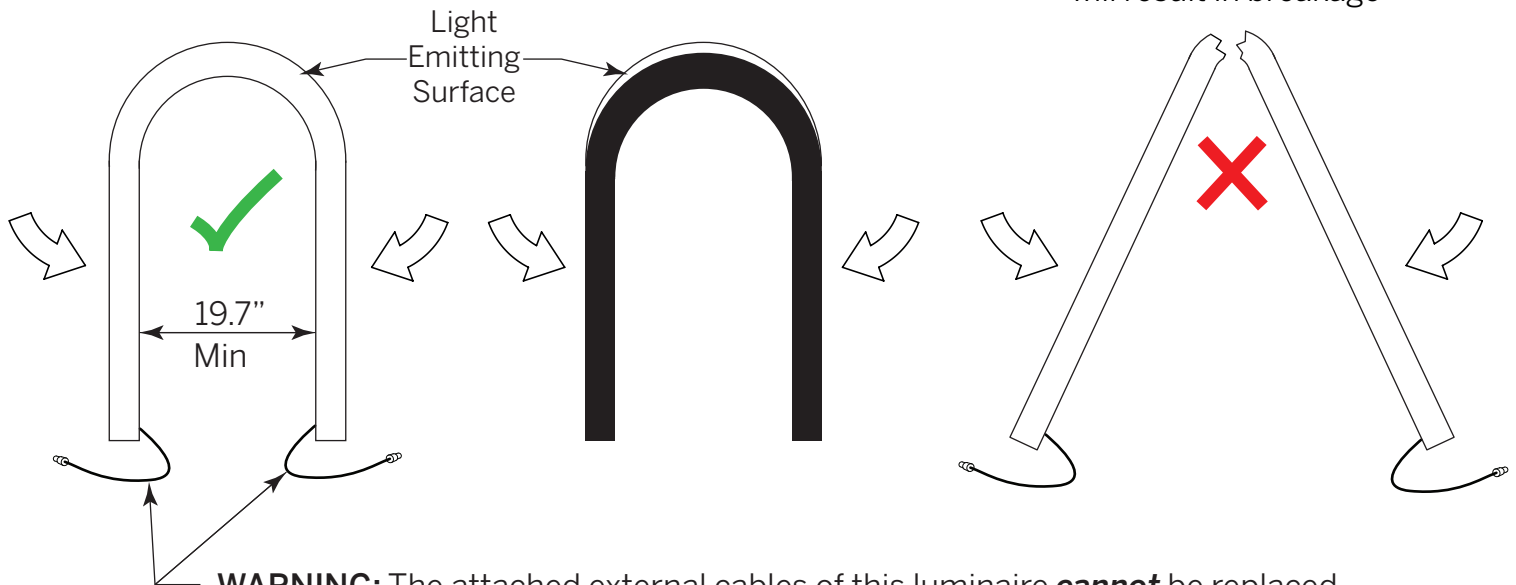
## Installation Instructions

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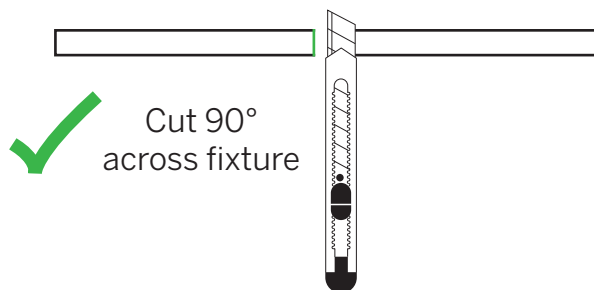
### Step 2 - *Recommended Practices in Handling Fixture* (continued)

Minimum Bending  
Radius: 9.8" (250mm)

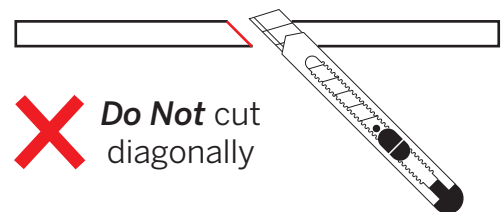
Bending fixture with a  
tighter diameter  
will result in breakage



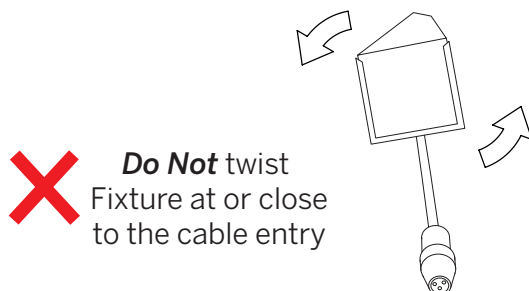
**WARNING:** The attached external cables of this luminaire **cannot** be replaced. If the cord is damaged, the entire luminaire must be replaced. Similarly, the internal LED strip is not replaceable. At the end of the product's life, the whole luminaire must be replaced.



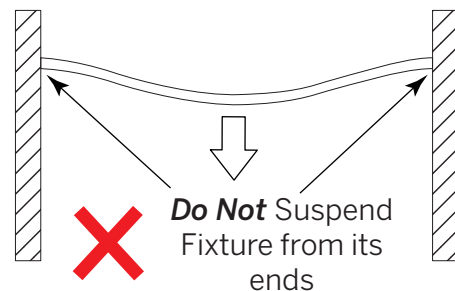
Cut 90°  
across fixture



**Do Not** cut  
diagonally



**Do Not** twist  
Fixture at or close  
to the cable entry



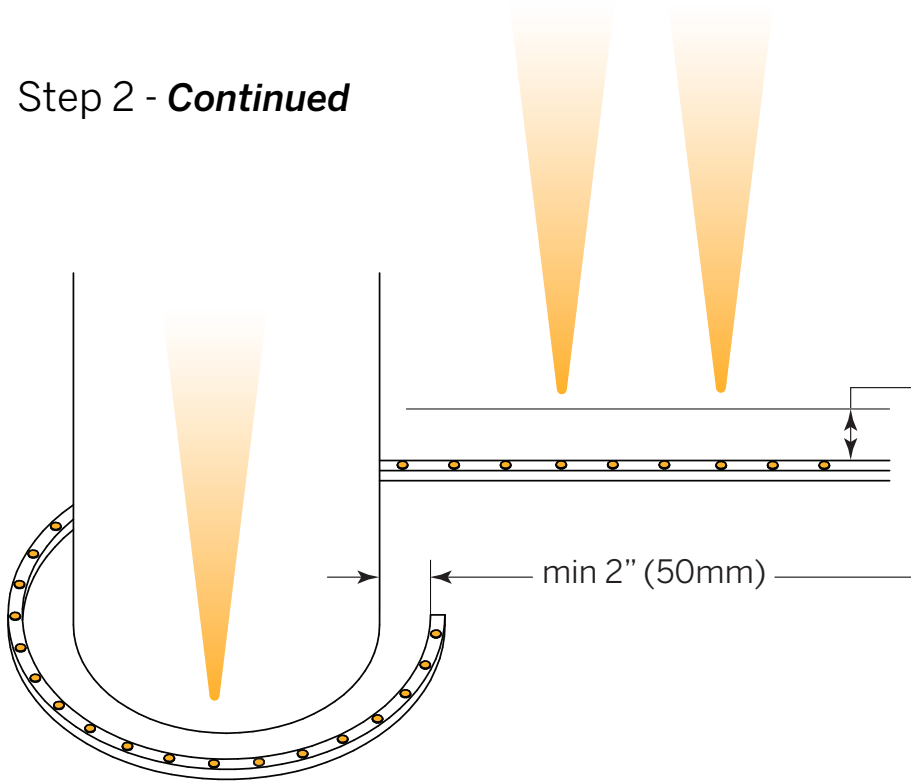
**Do Not** Suspend  
Fixture from its  
ends

Need  
Help?

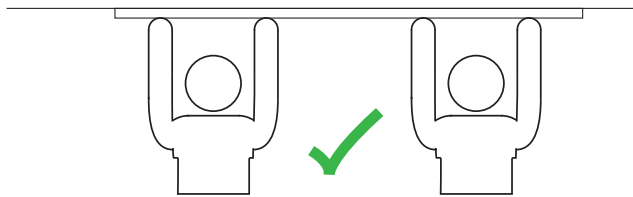
## Installation Instructions

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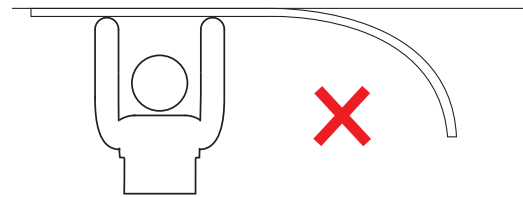
### Step 2 - *Continued*



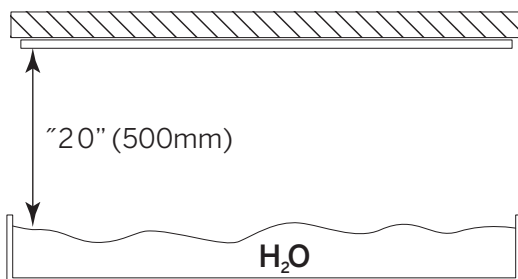
Rubber 3D Optic must be 0° set no less than 2" (50mm) from parallel surface (e.g. wall or column).



(2) people required to install



**Do Not** install by yourself



When installing fixture near water, allow for a minimum of 20" (500mm) above water level. Fixtures are not rated for continuous submersion.

Need Help?



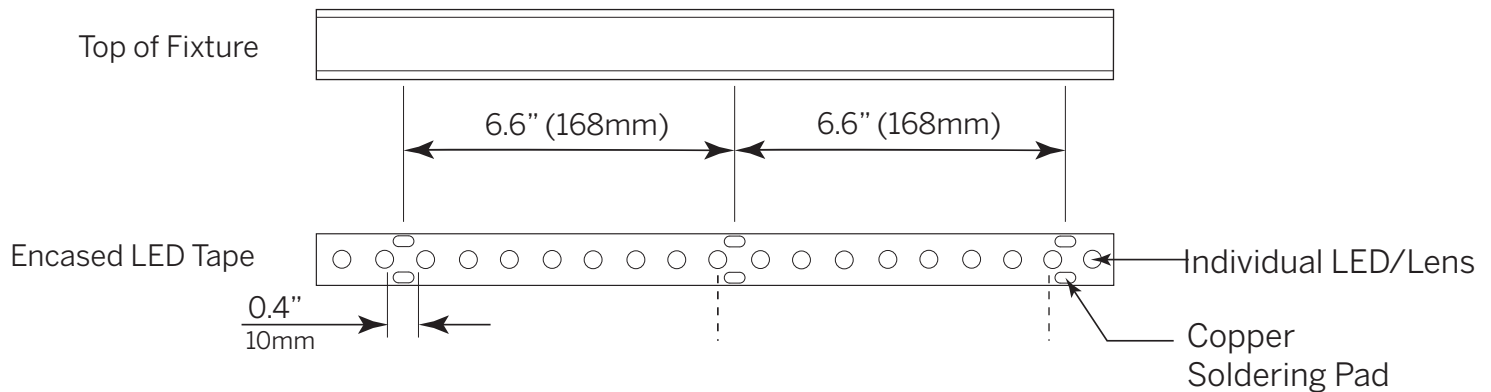
## Installation Instructions

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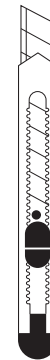
### Step 3 - *How to Measure & Cut Fixture*

**WARNING!** Read cutting instructions carefully *before* cutting fixture. If directions are not followed, an unlit section may result!

The Rubber fixture is an LED tape encased in a Polyurethane resin, blended into a PVC flexible channel. It is important that the fixture is cut accurately to function correctly.



- a** Add 6.6" (168mm) to the intended *lit* length and mark the Fixture at the bottom with a pen/marker. Make your first cut there.
- b** Energize the Fixture. You will have an unlit section of up to 6.6" (168mm). Examine the bottom of the Fixture and locate where the lit section ends. Make a second mark.
- c** De-energize the Fixture. Make a third mark 0.25" (6mm) beyond the second mark, and make the second and final cut there.
- d** Energize and test again.
- e** Add End Cap as shown on next page.



Need  
Help?

**NOTE:** Illustration not representative of actual LED/Lens count.

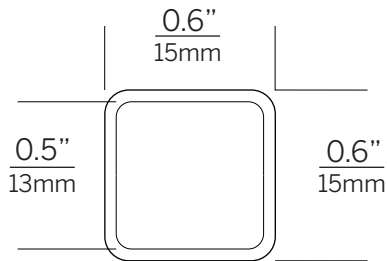
## Installation Instructions

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### Step 4 - *Terminating a Cut Luminaire*

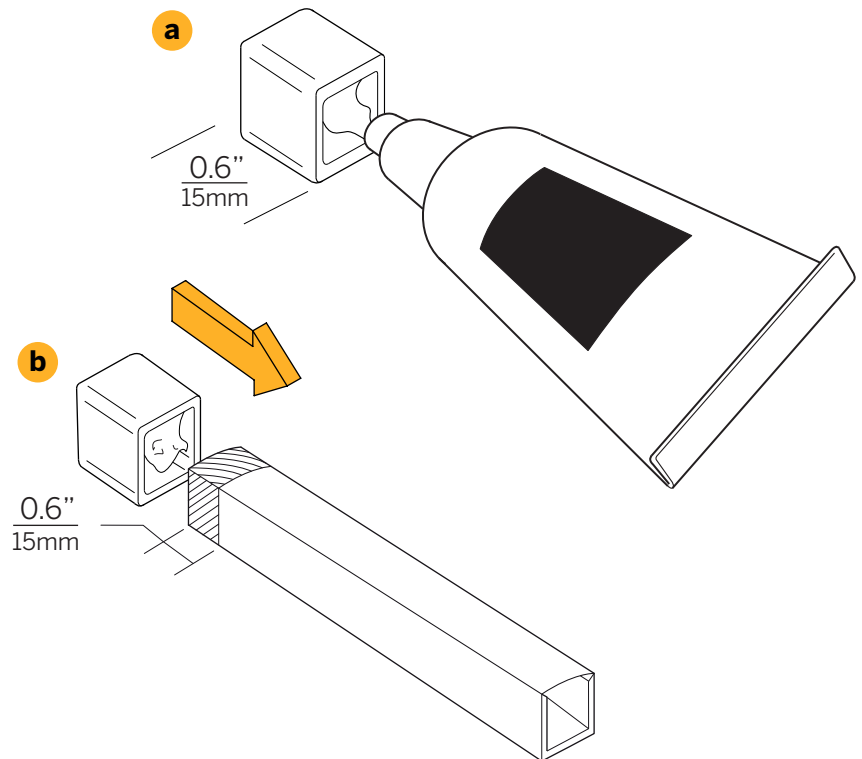
Ends of cut fixtures must be terminated with an End Cap, ordered as part of the 99539 End Cap Kit.

99539 End Cap Kit includes (2) Caps and (1) Tube of Silicone.

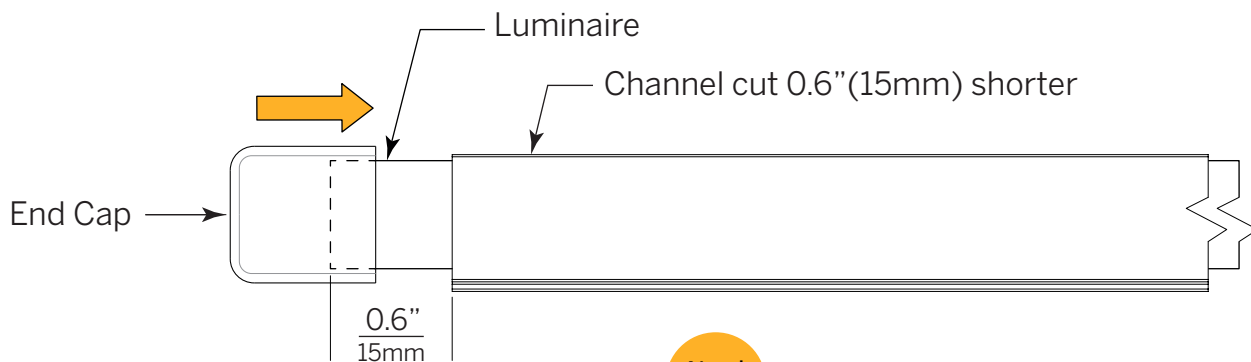


- a** Apply silicone at end of End Cap before sealing cut Fixture. Avoid squeeze-out as too much silicone can cover the LED tape's diodes.

- b** Mount End Cap



**NOTE:** If using a Channel to house the fixture, Channel needs to be cut 0.6" (15mm) shorter, as the End Cap does not fit within its confines. See illustration below.



Need Help?

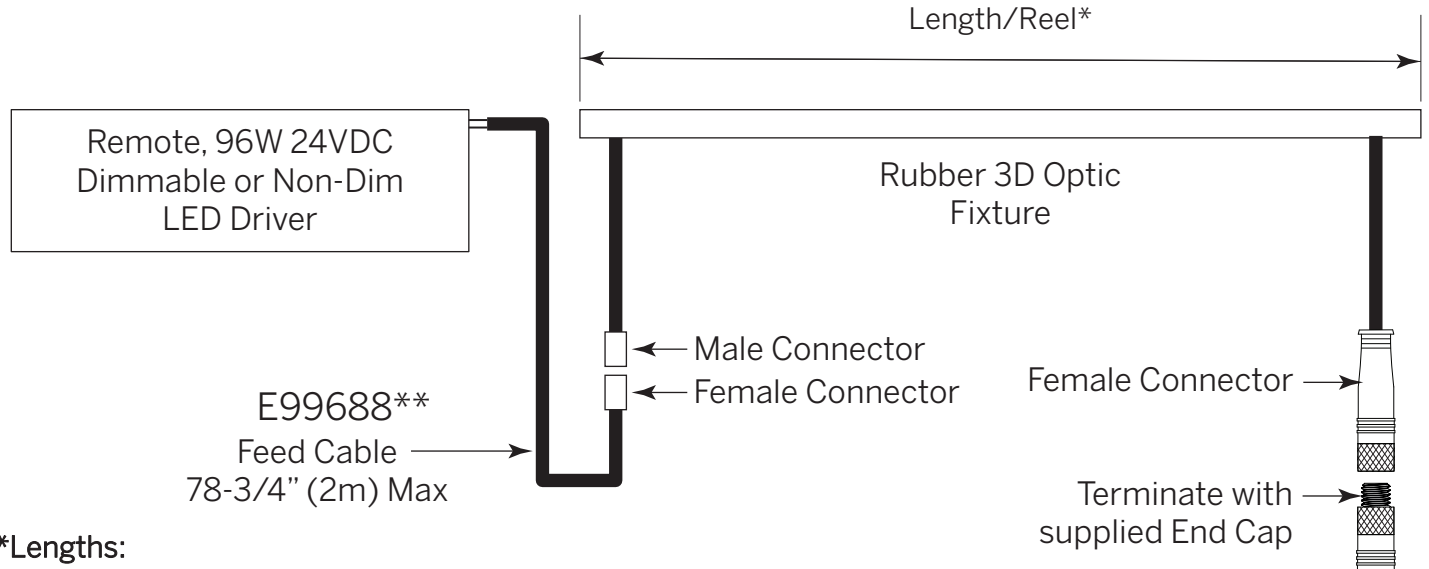
## Installation Instructions

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### Step 4 - **Wiring - Static White**

24VDC Constant Voltage, 6.7W/ft

#### Stand Alone Unit



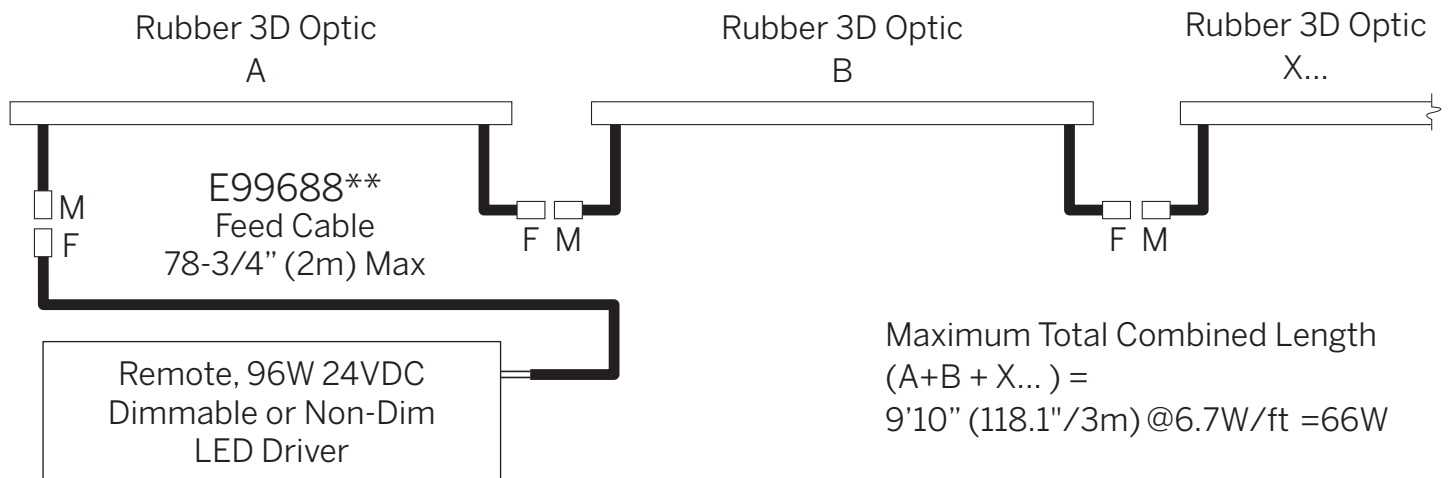
#### \*Lengths:

3'3" Reel (39.4"/1m) @6.7W/ft = 22W

4'11" Reel (59"/1.5m) @6.7W/ft = 33W

9'10" Reel (118"/3m) @6.7W/ft = 66W

#### Multi Unit Run



Maximum Total Combined Length  
(A+B + X... ) =  
9'10" (118.1"/3m) @6.7W/ft =66W

\*\*E99688 Wire colors:

Clear wire (-)

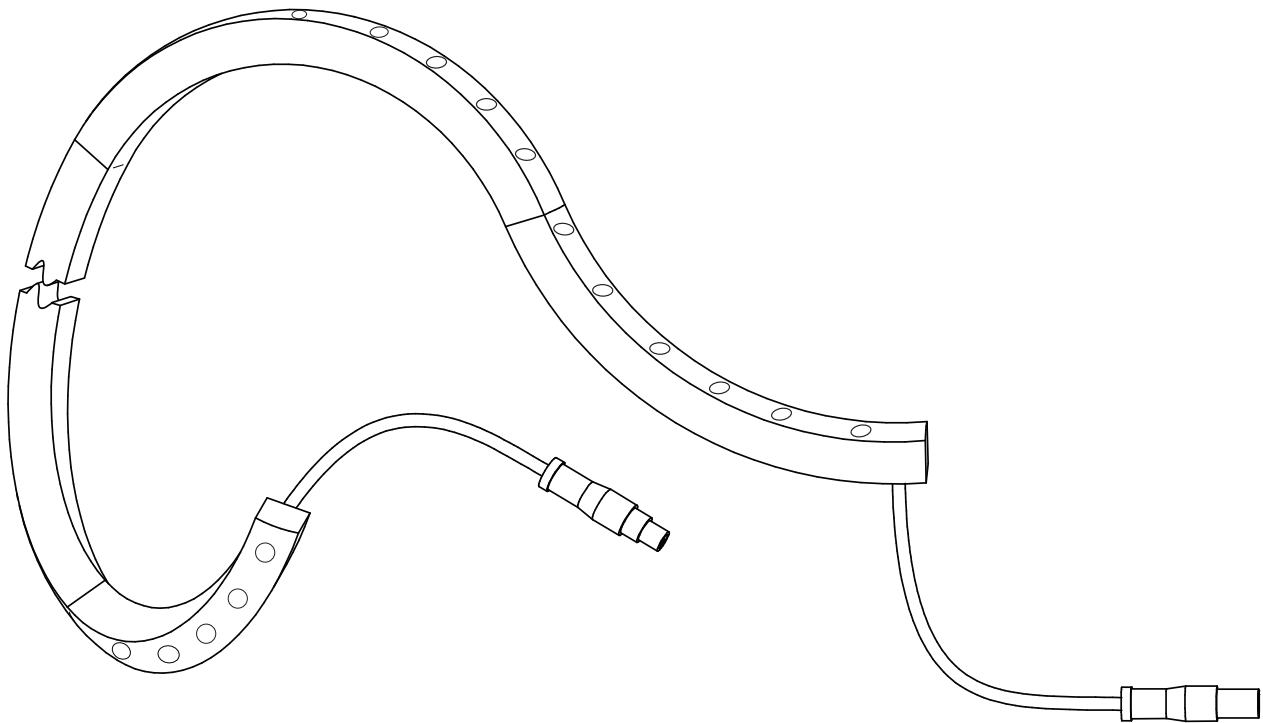
White wire (+)

Need  
Help?

#### Available Drivers

- OT96-D010
- DI96-24V-JBX-DPH-D010
- LUT96-L3D0

## Accessory Selection Guide






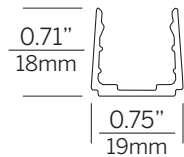
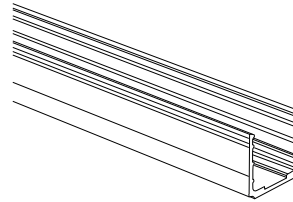
Need  
Help?

## Linear Profiles

Used to mount Luminaire in straight runs. Screws and anchors supplied for Aluminum Clips. PVC Clips require mounting hardware (by others).




### Aluminum

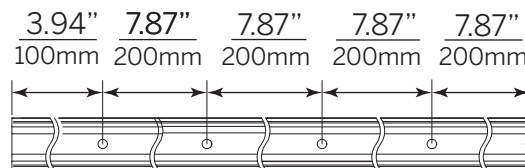
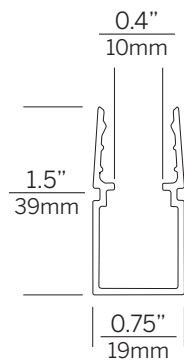
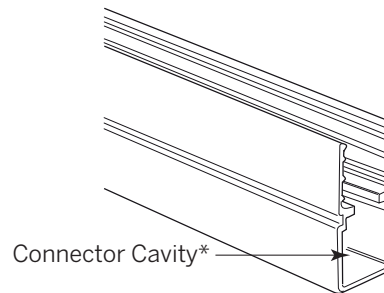
-  99549 - 39-3/8"(1m)  
Clear Anodized Finish
-  C-K100007 - 39-3/8"(1m)  
Black Anodized Finish
-  (5) Mounting Screws  
included per profile



**NOTE:** Contractor must construct way to hide cable and connectors.

### Aluminum with Connector Cavity<sup>1</sup>

-  83034 - 39-3/8"(1m)  
Clear Anodized Finish
-  C-K100009 - 39-3/8"(1m)  
Black Anodized Finish
-  (5) Mounting Screws  
included per profile



Screw Hole Spacing for both Aluminum Channels

### PVC<sup>2</sup>

-  C-K100002 - White, 39-3/8"(1m)

Dimensions same as above.

### PVC with Connector Cavity<sup>2</sup>

-  C-K100005 - White, 39-3/8"(1m)

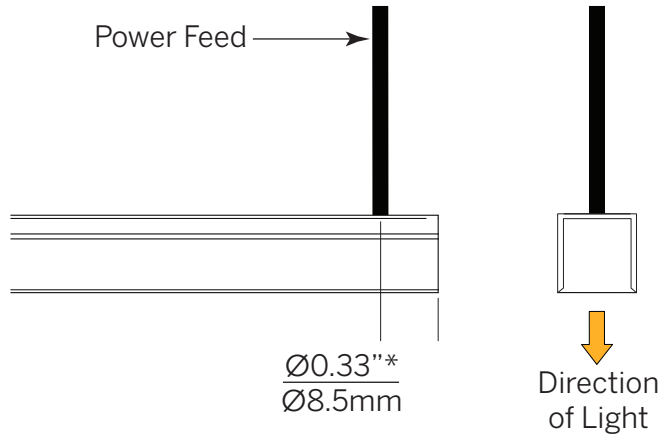
Dimensions same as above.

<sup>1</sup> Connector Cavity can accommodate only **one** connector pair and **no** other additional connectors or cables.

<sup>2</sup> PVC Channels are not predrilled; screws and anchors supplied by others.

Need  
Help?

## Mounting Luminaire and Linear profiles to Surface



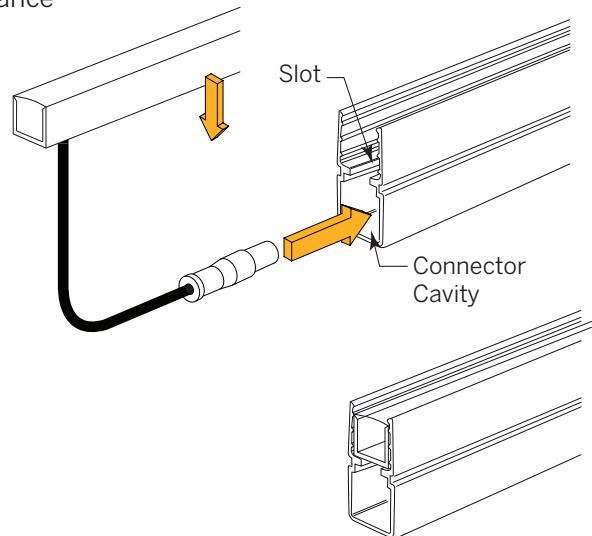
For 99549, C-K100007, C-K100002  
Linear Profiles **without** Connector Cavity

- a** Fasten Profile to Surface with supplied screws and anchors.
- b** Insert Luminaire into Profile. Note that Luminaire extends slightly beyond Profile.

\*Feed Cable distance from end of Reel has a  $\pm .08"$  (2mm) tolerance

For 83034, C-K100009, CK100007  
Linear Profiles **with** Connector Cavity

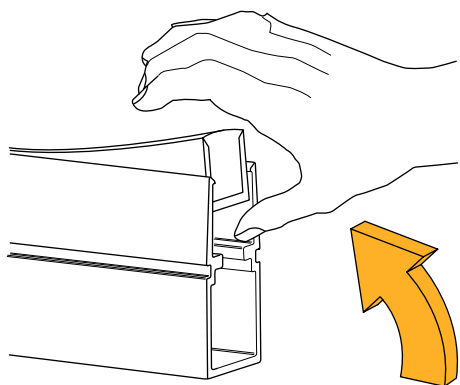
- a** Fasten Profile to Surface with supplied screws and anchors.
- b** Insert Luminaire into Profile. Power Feed may be inserted through top groove or at end of Profile. Luminaire fits entirely within Profile. See illustrations at right.



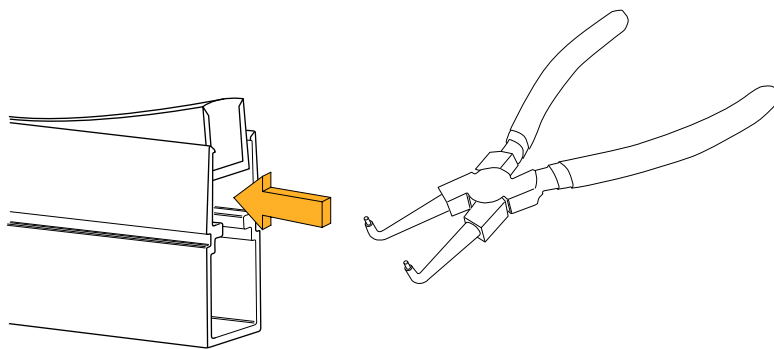
**NOTES:** Connector Cavity can accommodate only one connector pair and no other additional connectors or cables. On Multi Unit Runs, each Reel/Driver pair requires a dedicated feed entry point at the start of each Reel.

Need  
Help?

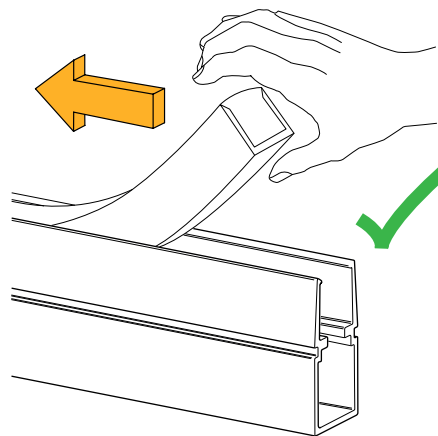
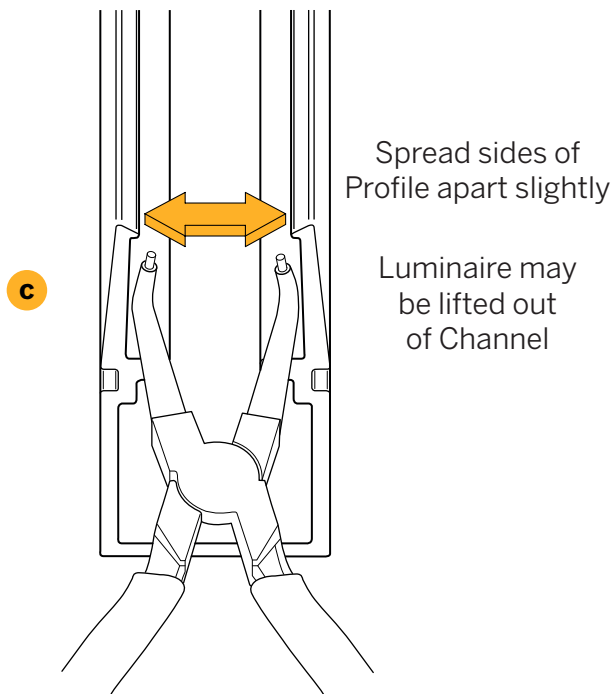
## Removing Luminaire from Linear Profile



- a** Lift end of Luminaire slightly.



- b** Insert bent nose pliers into Channel underneath Luminaire.




- d** Continue to lift Luminaire out along length of Channel.


Need  
Help?


Clips

Used to mount Luminaire in curved runs. They may also be used in straight runs, just like the linear profiles. Recommended spacing is 4" on center. Screws and anchors supplied for Aluminum Clips. PVC Clips require mounting hardware (by others).


Aluminum

 C-F400001 - 2"(50mm)  
Clear Anodized Finish


 C-F400002 - 2"(50mm)  
Black Anodized Finish

 (1) Mounting Screws  
included per profile


Aluminum with Connector Cavity<sup>1</sup>

 C-F400003 - 2"(50mm)  
Clear Anodized Finish

 C-F400004 - 2"(50mm)  
Black Anodized Finish

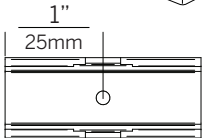
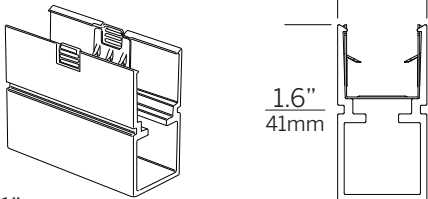
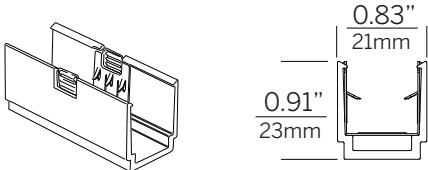
 (1) Mounting Screws  
included per profile

PVC<sup>2</sup>

 C-K100003 - White, 2"(50mm)

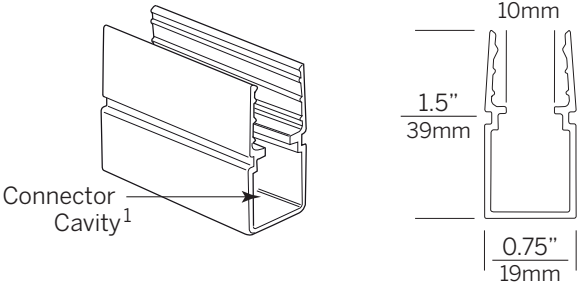
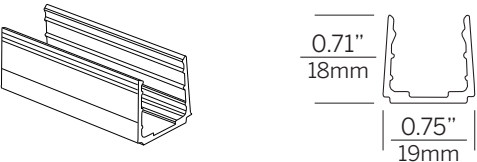
PVC<sup>2</sup> with Connector Cavity<sup>1</sup>

 C-K100006 - White, 2"(50mm)



Top View of  
Aluminum Clips

**Suggested Spacing:**  
4" (100mm) on center.



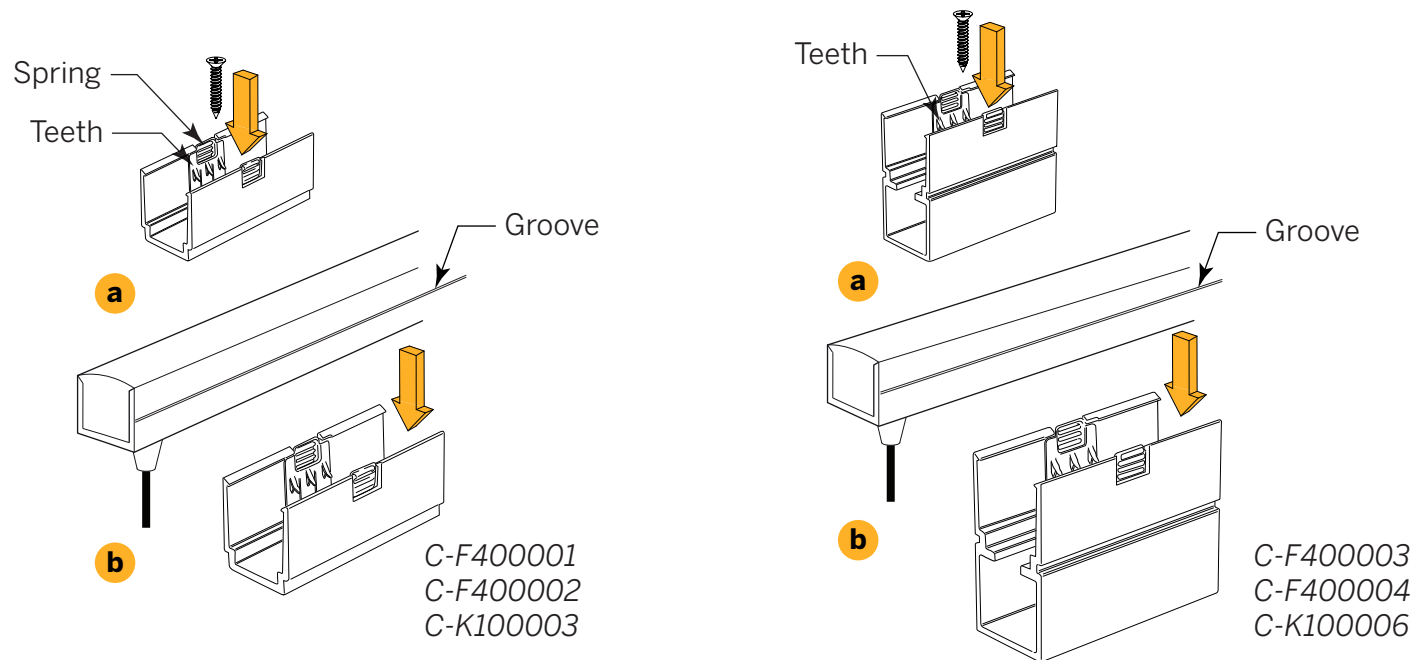
<sup>1</sup> Connector Cavity can accomodate only **one** connector pair and **no** other additional connectors or cables.

<sup>2</sup> PVC Channels are not predrilled; screws and anchors supplied by others. Alternatively, they may be installed using double stick tape (by others).





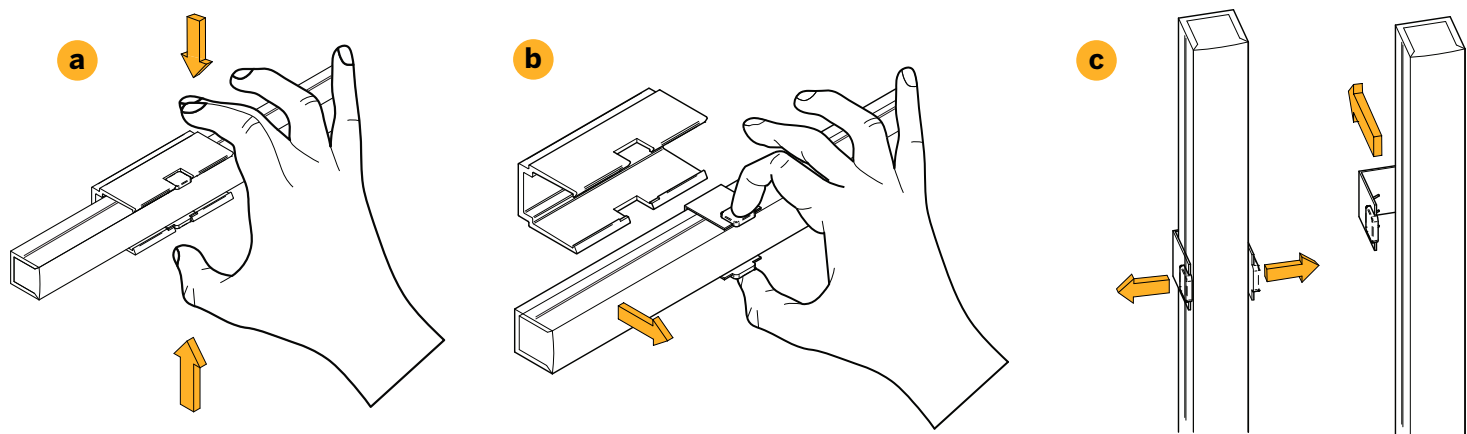
Clips (continued)



Teeth on Spring engage Luminaire Groove and lock it into place.

Removing Luminaire from Clips

Luminaire may also be removed from clips, and repositioned, as shown below:



Squeeze Spring  
in middle of Clip

Remove Aluminum Clip

Spread Ends of Spring,  
disengage Teeth, and  
reposition (if necessary).

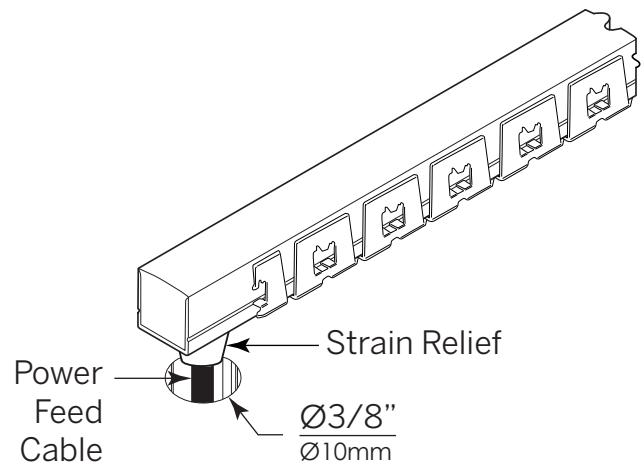
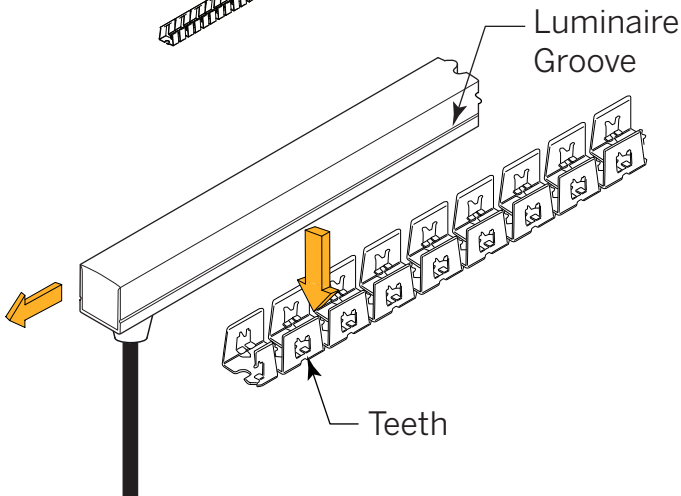
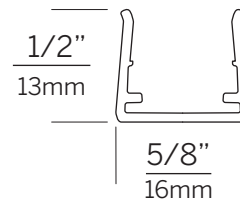
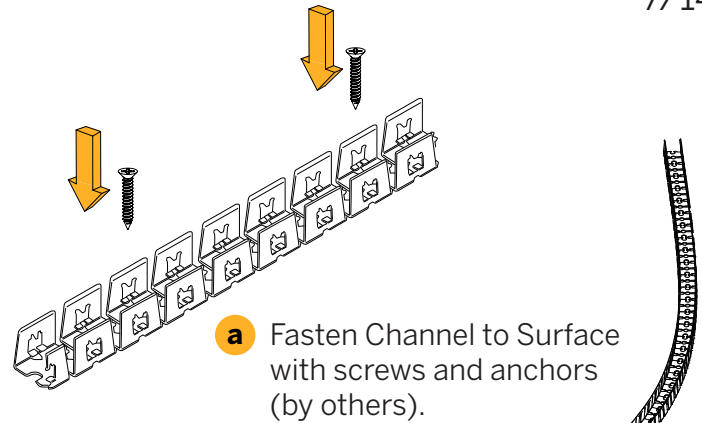
Need  
Help?

## Flexible Channels

- C-K100011 Stainless Steel Flexible Channel  
39.7" (Nominal 1m) L x 5/8" (16mm) W x 1/2" (13mm) H

Used to directly mount Luminaire in a curved run, in place of Channels or Clips. Requires mounting screws and anchors (by others).

**NOTE:** Contractor must construct way to hide cable and connectors.



- b** Extend Strain Relief and Power Feed slightly beyond Channel.
- c** Insert Luminaire such that Teeth engage Luminaire Groove
- d** Drill a 3/8" (10mm) hole in the masonry or drywall to allow Luminaire to lie flush on surface.

Need Help?

## Flexible Channels (Continued)

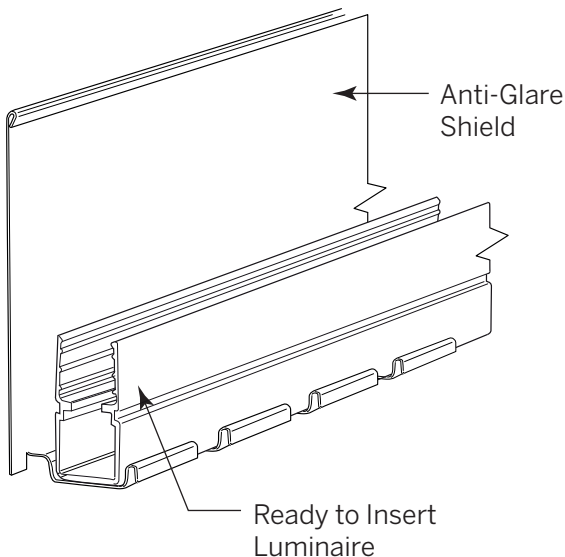
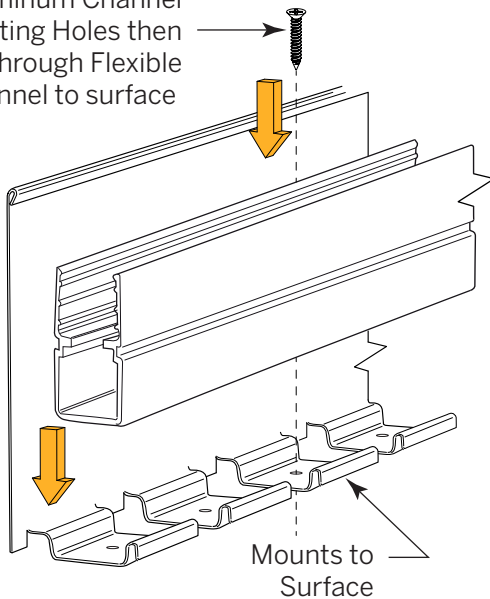
- C-K100032 Stainless Steel Flexible Anti-Glare Shield  
80.1"(Nominal 2m)L x 4" (103mm)H

Used to mount Luminaire in a straight or curved run with the addition of an Anti-Glare Shield. Requires use of Channels or Clips. Mounting screws and anchors supplied with Aluminum Channels or Clips (ordered separately). PVC channels or clips require mounting hardware (by others).

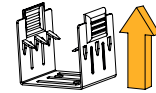
**NOTE:** Contractor must construct way to hide cable and connectors.

### Channel

Insert Screws through Aluminum Channel Mounting Holes then again through Flexible Channel to surface

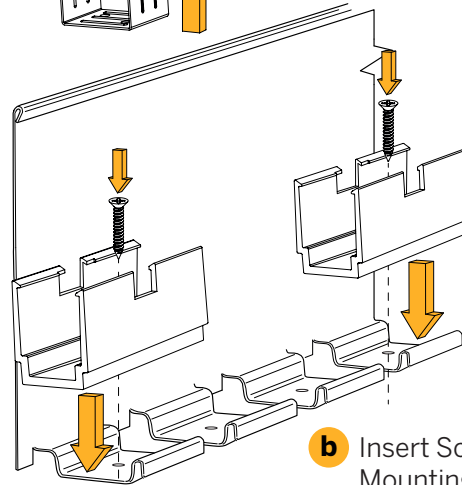


### Clips

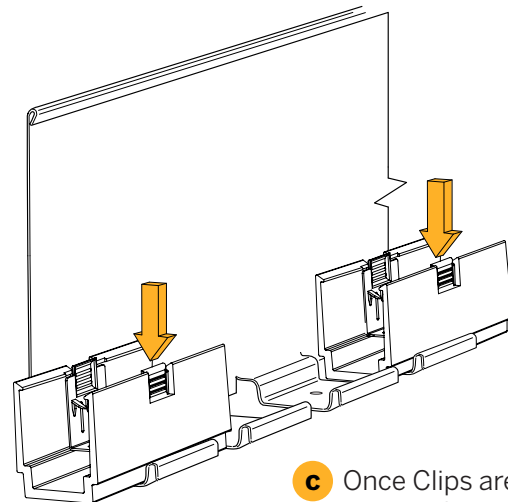


Spring

- a** Remove Spring from Clips as shown on **Page 8** to access Mounting Holes.



- b** Insert Screws through Clip Mounting Holes and then through Flexible Channel to surface.



- c** Once Clips are mounted, replace Springs and insert Luminaire.

Need Help?

# Rubber 3D Optic

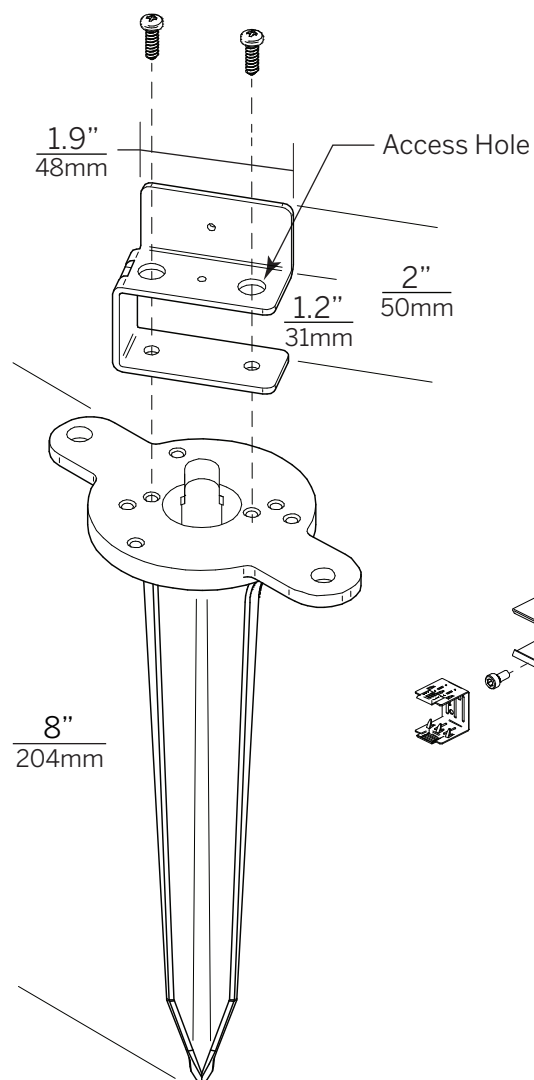
LL-RUB-3DOPT

inter•lux

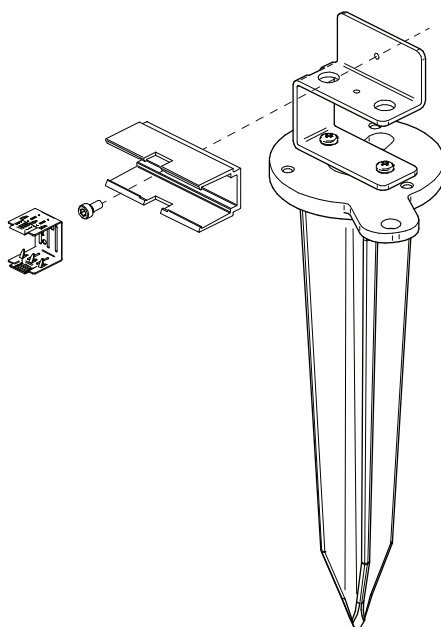
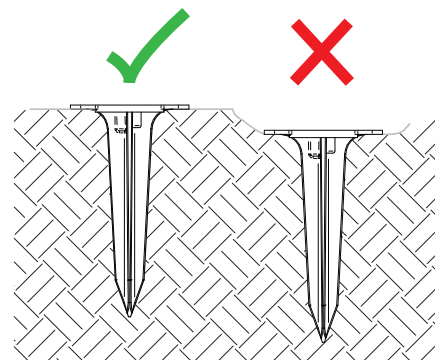
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## 83351 Spike with Rigid Bracket

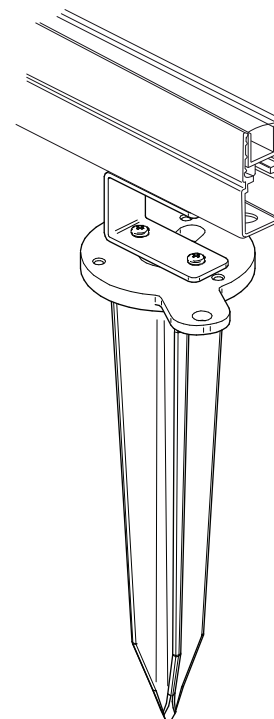
Used in conjunction with Channel or Clips, each ordered separately. Bracket Mounting Screws included.



The Rigid Bracket can position the Rubber 3D in two ways: Parallel to the ground or Perpendicular the ground.



Parallel to Ground



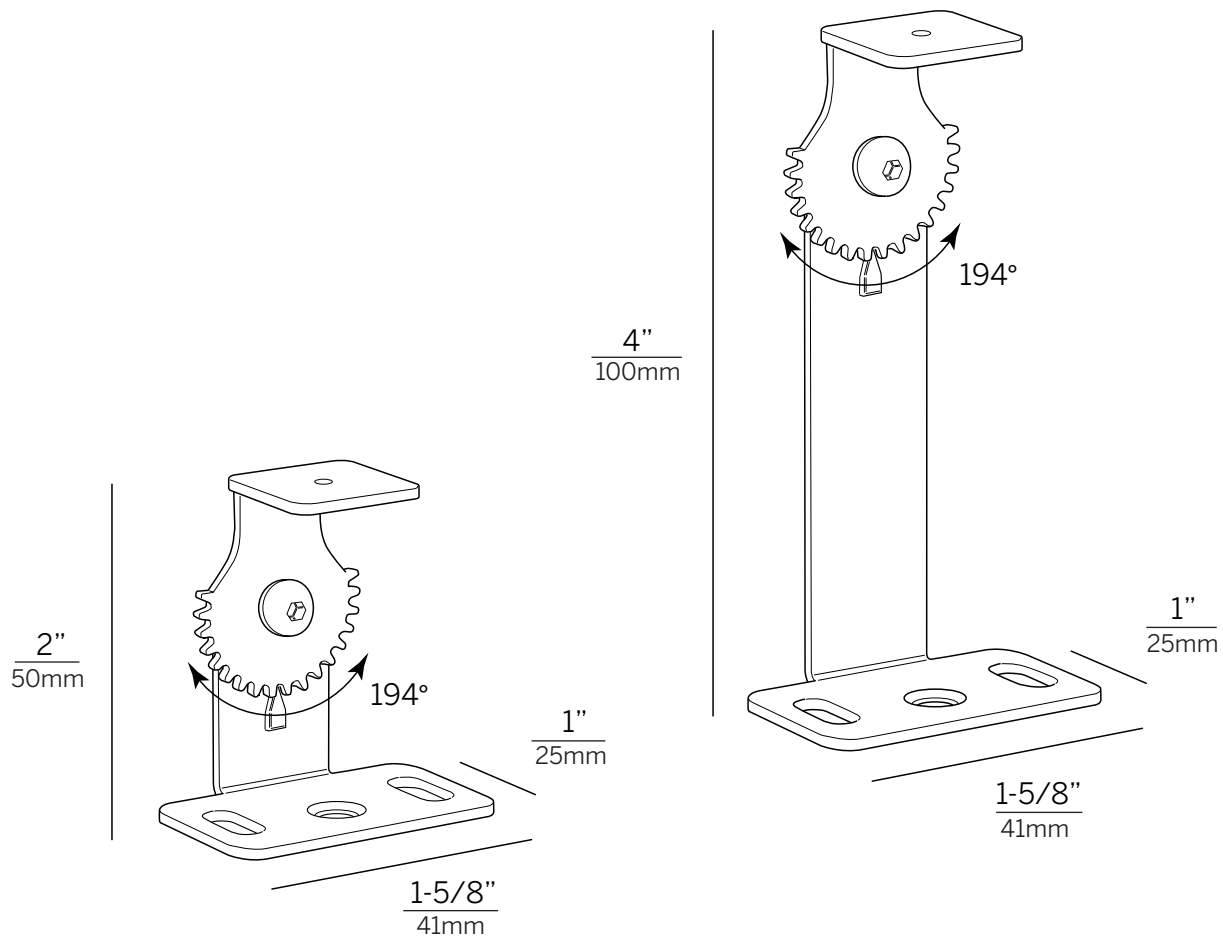
Perpendicular to Ground

Need  
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## C-K400168 **2" Metal Tilting Bracket**

## C-K400169 **4" Metal Tilting Bracket**

Used in conjunction with Channel or Clips, each ordered separately. May be mounted on vertical or horizontal surface. Bracket Mounting Screws and Anchors are provided.



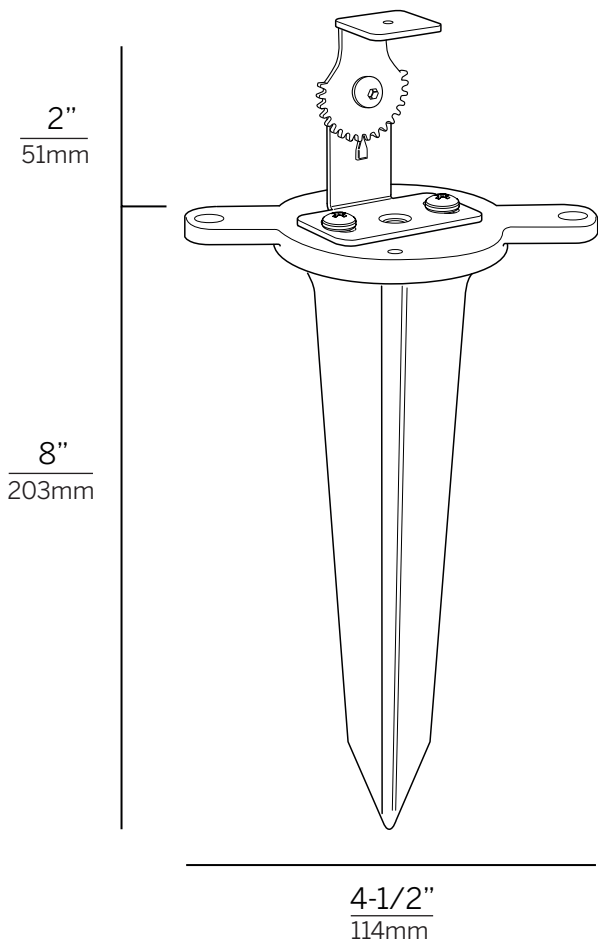
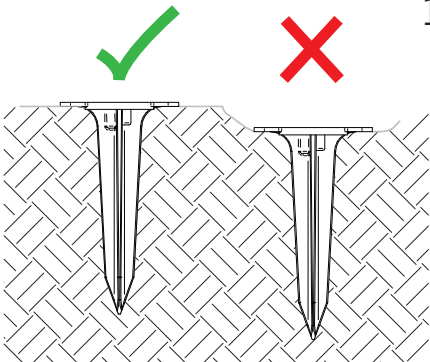
C-K400168

C-K400169

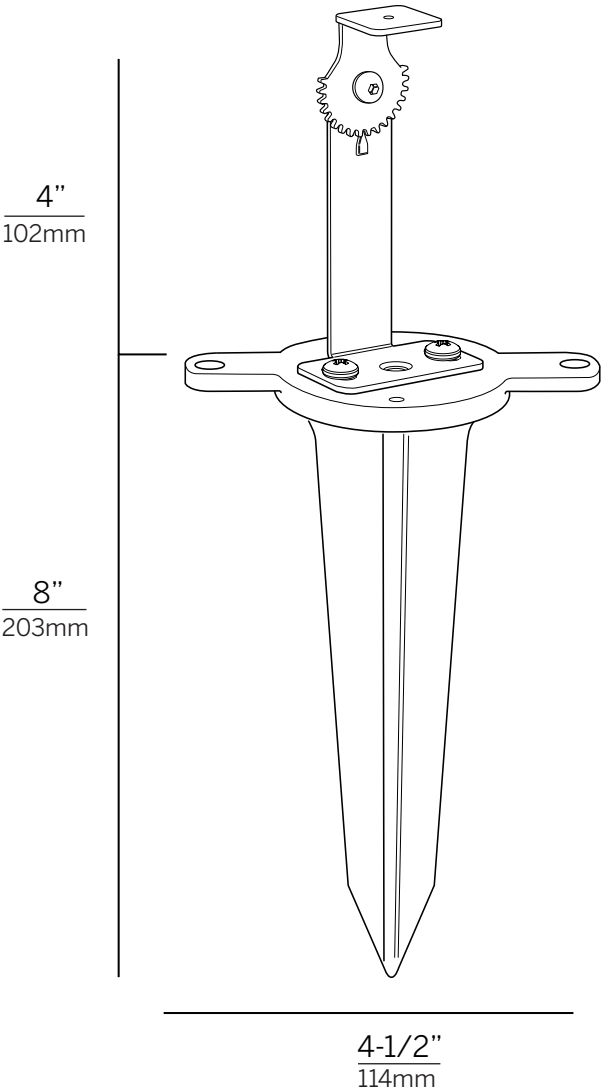
Need  
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C-F500004 *Metal Tilting Bracket on Spike*  
C-F500005 *Metal Tilting Bracket on Spike*

Used in conjunction with Channel or Clips, each ordered separately. Bracket Mounting Screws included.



C-F500004

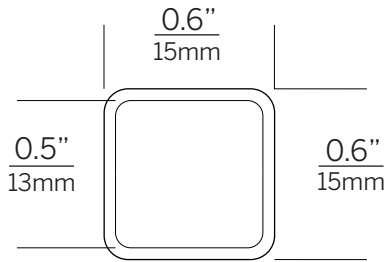


C-F500005



## 99539 End Cap Kit

Field cut fixtures must be terminated with an End Cap.

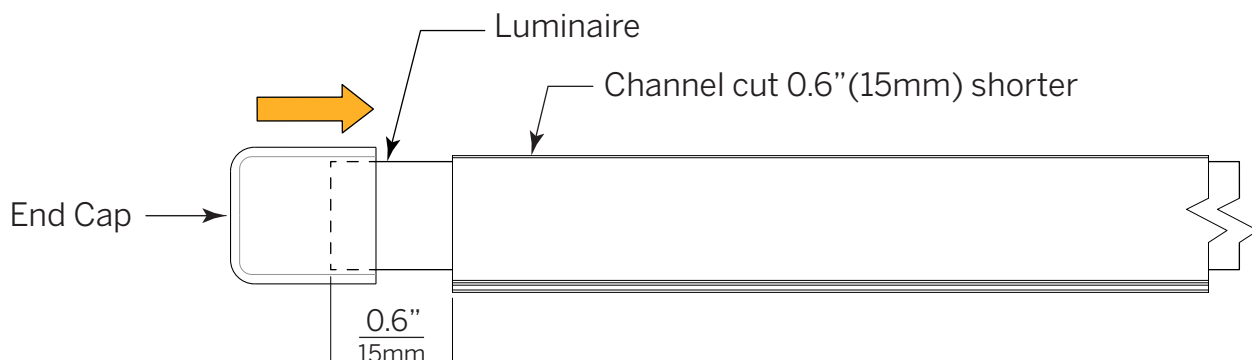
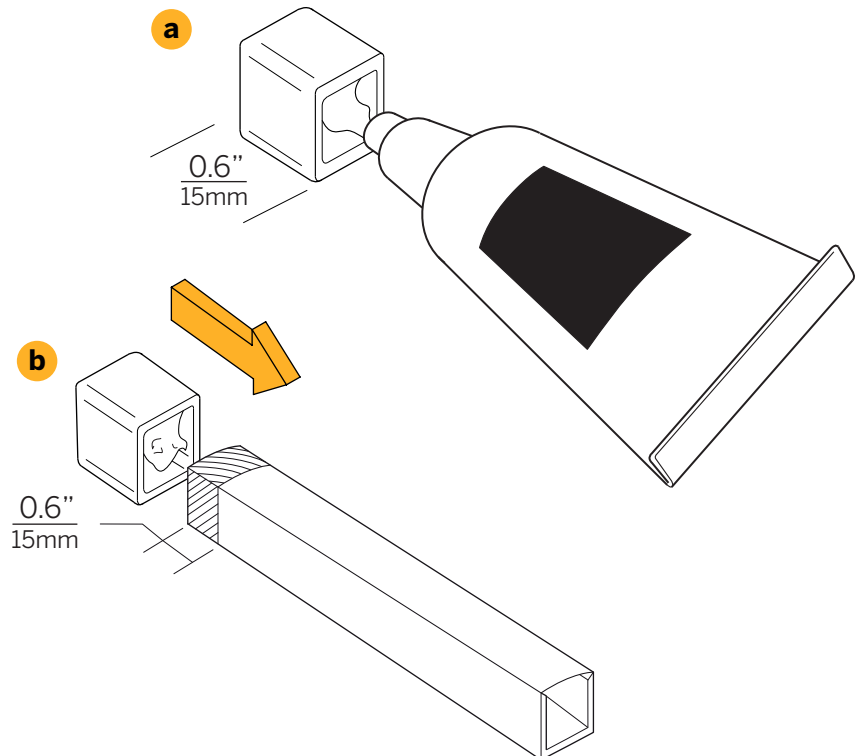


99539 End Cap Kit includes (2) Caps and (1) Tube of Silicone.

- a** Apply silicone at end of End Cap before sealing cut Fixture. Avoid squeeze-out as too much silicone can cover the LED tape's diodes.

- b** Mount End Cap

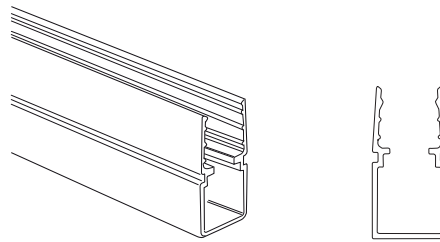
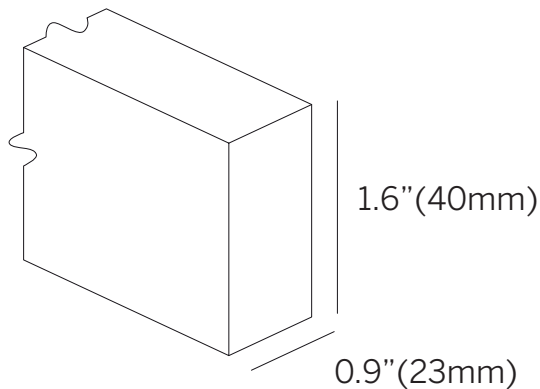
**NOTE:** If using a Channel to house the fixture, Channel needs to be cut 0.6" (15mm) shorter, as the End Cap does not fit within its confines. See illustration below.



Need Help?

## 99521 **Polystyrene Concrete-Pour Preparation Kit for 83034/C-K100009**

1.6"H x 0.9"W x 39.8"L polystyrene strip used as template for recessed mounting of Aluminum Channel with Wireway in poured concrete. Cannot be used on curved runs. Set the template in place before pour, and remove before concrete fully sets. Note that an entry/exit path for power feed from remote driver must still be constructed before pouring concrete.

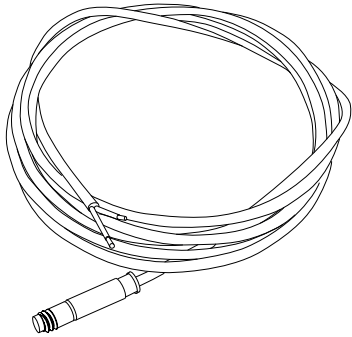


For use with 83034/C-K100009  
Aluminum Channel with Connector Cavity  
(Ordered separately)  
(See p. 1 for more information)

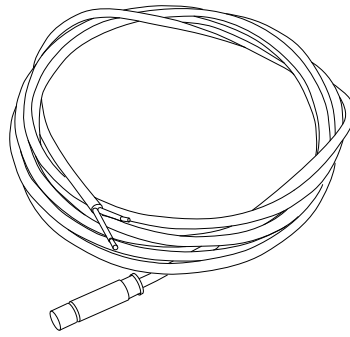
Need  
Help?



## Cables



E99688 **78.7"/2m**  
Feed Cable, Female  
2-Pin to Bare Leads



E99689 **78.7"/2m**  
Feed Cable, Male  
2-Pin to Bare Leads

Need  
Help?