

Installation Instructions

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



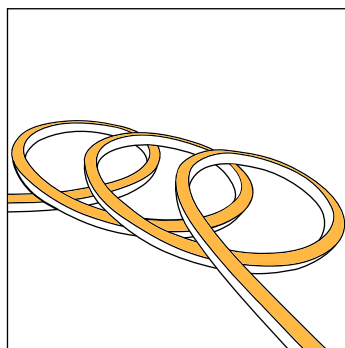
To prevent electrical shock disconnect electrical supply before installation or servicing.
Never connect a Fixture to a Live Driver!!!

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

Step 1 - Open the Box

Unpack luminaire unit(s). The Flex family of luminaires require special handling. They are supplied in lengths specified at the time of order, and are delivered on a reel enclosed in a large anti-static bag. Remote Drivers and Boxes may be ordered from Inter-lux separately.

24VDC Constant Voltage



15 x 15 Horizontal

Static White
Static White High Output
Static White Free Cut
Tunable White

Minimum Horizontal Bend

$\varnothing \geq 9.8" / 250\text{mm}$

Warm Dim
RGB

Minimum Horizontal Bend

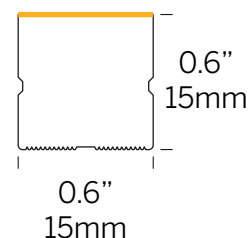
$\varnothing \geq 11.8" / 300\text{mm}$

Working Temperature Range

-40° to 130°



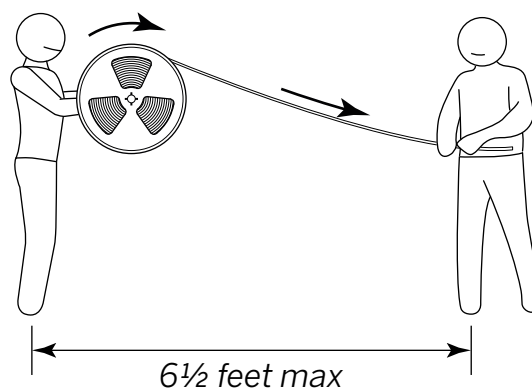
Do not attempt to bend this Luminaire in the vertical plane!



NOTE: Yellow (or light gray in B/W) indicates a lit surface.

Step 2 - Handling the Luminaire

- a** The delicate nature of the Flex Horizontal Luminaire necessitates that unpacking, handling, and installing this fixture be done by **at least** two people.



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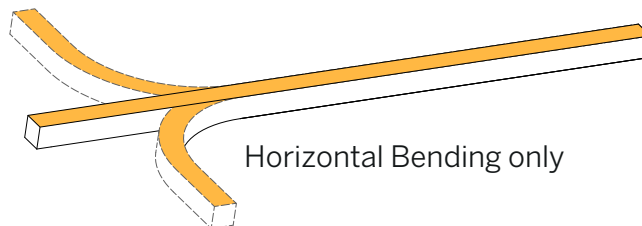
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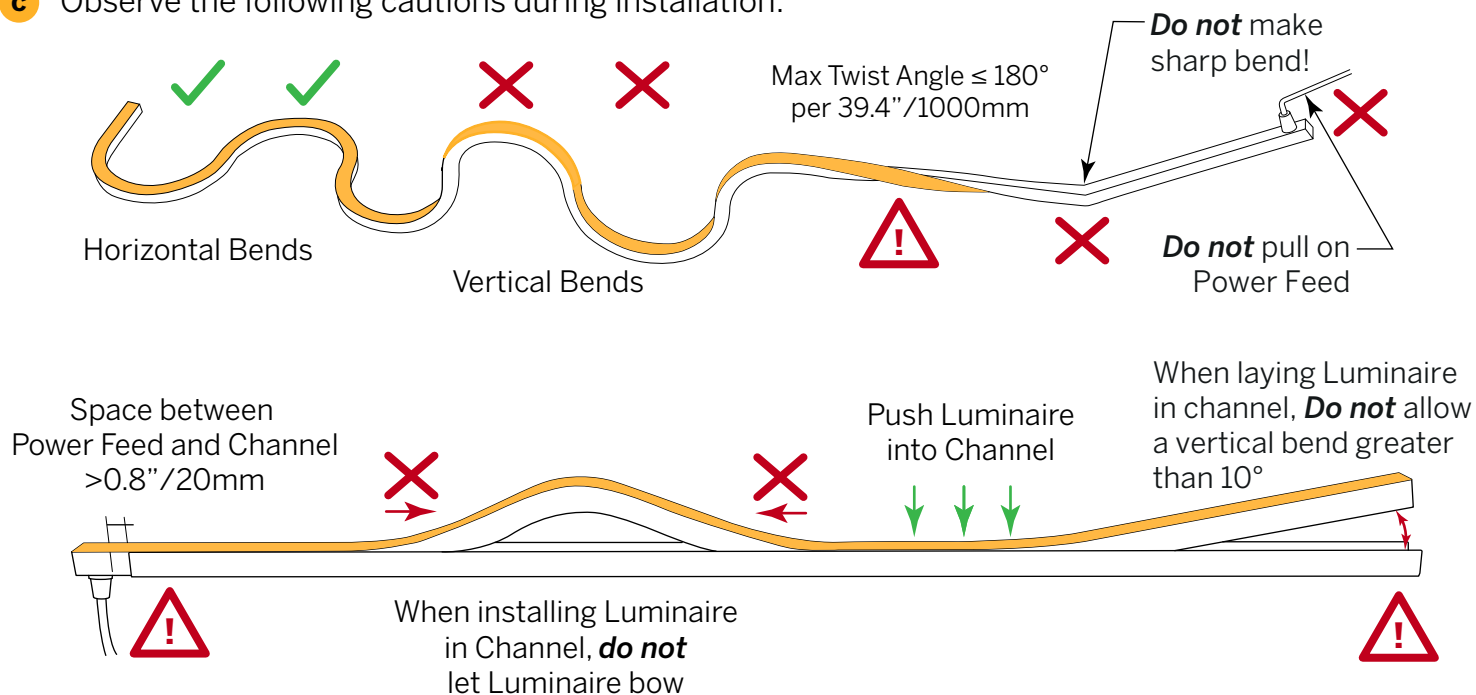
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Step 2 - *Handling the Luminaire* (continued)

- b** The Flex 15 x 15 Horizontal Luminaires may be represented by the illustration at right. *All* Horizontal Luminaires bend in the **horizontal plane only** - Left or Right.

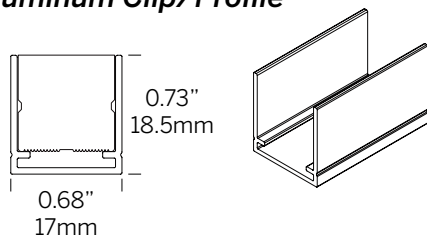


- c** Observe the following cautions during installation:



Step 3 - *Accessories*

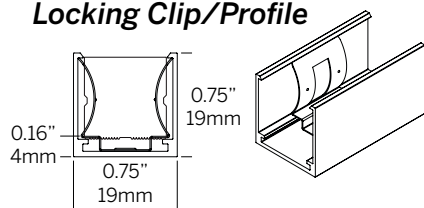
Aluminum Clip/Profile



Available in:

1.18"/30mm Silver^{1,2}
1.18"/30mm Black^{1,2}
39.37"/1000mm Silver^{1,3}
39.37"/1000mm Black^{1,3}

Locking Clip/Profile



Available in:

1.38"/35mm Silver^{1,2,4} 78.74"/2000mm Silver^{1,3,4}
1.38"/35mm Black^{1,2,4} 78.74"/2000mm Black^{1,3,4}
39.37"/1000mm Silver^{1,3,4} 98.43"/2500mm Silver^{1,3,4}
39.37"/1000mm Black^{1,3,4} 98.43"/2500mm Black^{1,3,4}

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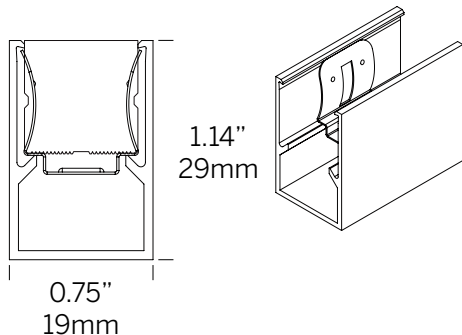
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Step 3 - **Accessories** (continued)

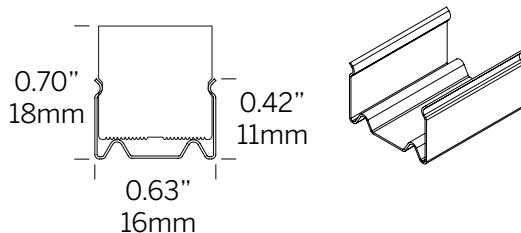
Deep Self Locking Clip/Profile



Available in:

1.38"/35mm Silver^{1,2,4,5}
 1.38"/35mm Black^{1,2,4,5}
 39.37"/1000mm Silver^{1,3,4,5}
 39.37"/1000mm Black^{1,3,4,5}

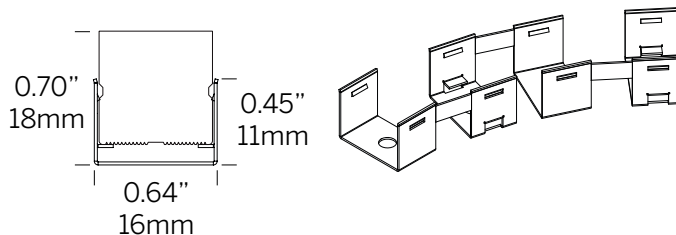
Stainless Mounting Clip/Profile



Available in:

0.79"/20mm Silver^{1,2}
 0.79"/20mm Black^{1,2}
 39.37"/1000mm Silver^{1,3}
 39.37"/1000mm Black^{1,3}

Stainless Bendable Profile



Available in:

39.37"/1000mm Silver^{1,6}
 39.37"/1000mm Black^{1,6}

NOTES:

- 1 Mounting screws and anchors supplied by others.
- 2 All clip-length profiles are pre-drilled for mounting.
- 3 Full-length profiles are pre-drilled with (3) holes per 39.37"/1000mm. Additional holes may be drilled, as needed.
- 4 Internal spring(s) inside Locking and Deep Self Locking Clip and Profile is movable to allow access to Mounting Hole(s).
- 5 Open space under spring of Deep Self Locking Profile is intended for wire management.
- 6 Flexible Profiles have pre-drilled holes in each segment for easy positioning.

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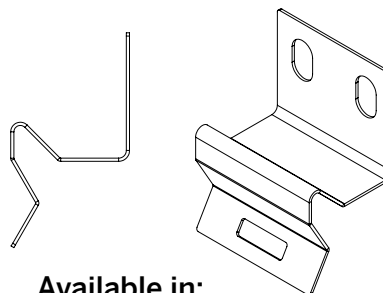


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Step 3 - **Accessories** (continued)

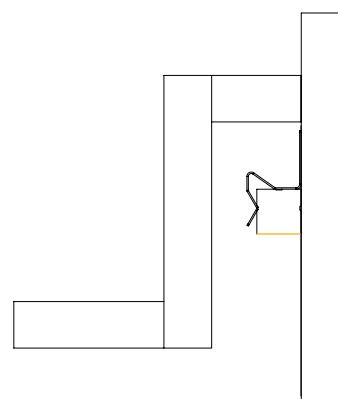
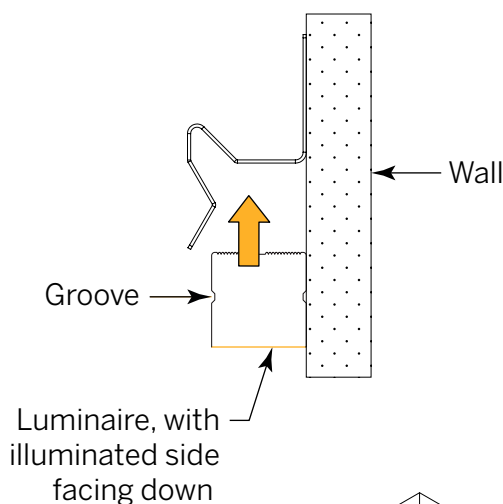
The Wall Spring Clip is a special-use clip that, in a false ceiling, allows the Flex to be used as a perimeter fixture. The Wall Spring Clip mounts with (2) screws and anchors (supplied by others). Clips may be mounted to follow a curve in the same plane or bent around a corner in two planes. Mount Clips every 6".

Wall Spring Clip

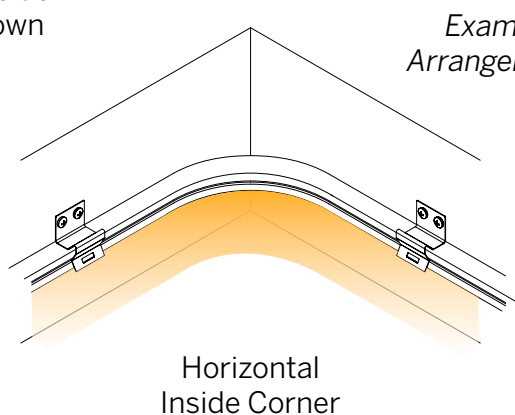


Available in:
0.75" / 19mm Silver

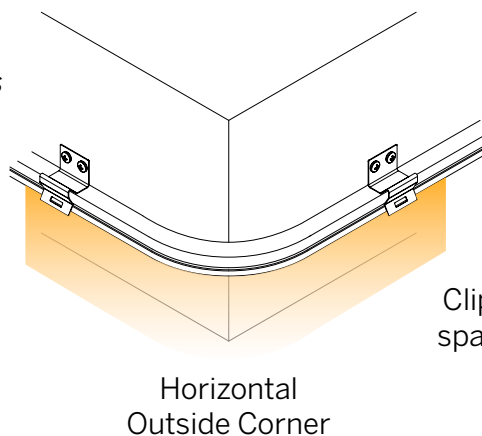
- a** Mount Clips to wall in desired pattern. Screws and Anchors supplied by others.
- b** Slide Luminaire up with illuminated side facing down. Clip will catch groove in side of Luminaire.



Example, Wall Spring Clip and Flex 15 x 15 Luminaire mounted in false ceiling



Example Arrangements



Clips should be spaced every 6"

NOTES:

- Curves of Luminaires in illustration above not necessarily representative of possible bend. Refer to Minimum Horizontal and Vertical Bend of fixture on page 1.
- Illustration of light output shows direction only, and is not indicative of actual color, intensity, or spread.

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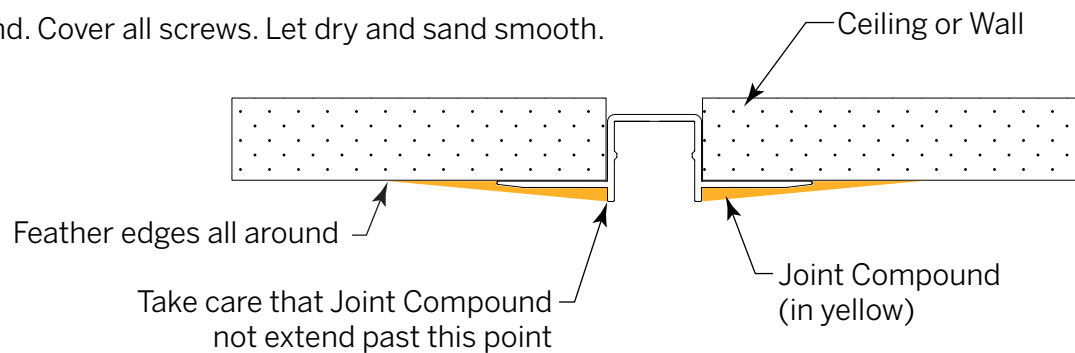
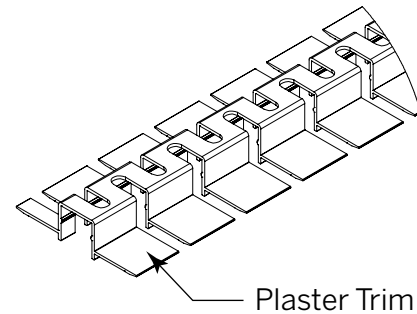
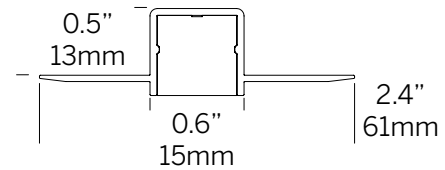
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Step 3 - **Accessories** (continued)

Flexible Aluminum Mounting Channel

The Flexible Aluminum Mounting Channel differs from other Flexible mounting options in that it has a Plaster Trim.

- a** Mark and cutout curve in ceiling or wall. Note that Luminaire Power Feed must extend past end of channel by at least 0.8" / 20mm.
- b** Drill Mounting Holes in Plaster Trim as necessary.
- c** Screw Flexible Channel to surface. Screws and anchors supplied by others. Drill Mounting Holes in Plaster Trim as necessary.
- d** Apply Joint Compound. Cover all screws. Let dry and sand smooth.



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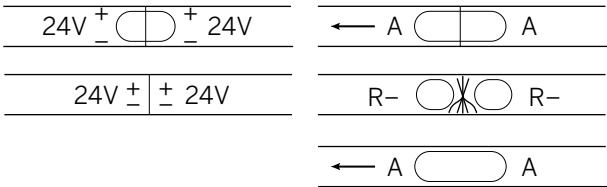
Step 4 - **How to Field Cut the Flex Luminaire**

(Skip to **Step 5** if not applicable)

All versions of the Flex 15 x 15 Horizontal Luminaire (except the *Free Cut*) have a narrow transparent window on the bottom or side with Cut Lines that look like one of those shown at right.

The ovals represent copper pads. It is imperative to cut on these lines to maintain a fully lit luminaire. If Flex is not cut on these lines, there is a risk that a portion of the luminaire near the cut will not power on.

The *Free Cut* version may be cut anywhere without concern that some LED's will go dark.



Cut Intervals

Static White

LED Type S05 - 2" /50mm
LED Type S12 - 2" /50mm

Static White High Output

LED Type S13 - 2.5" /63mm

Static White Free Cut

LED Type SF05 - n/a
LED Type SF12 - n/a

Tunable White

LED Type CT10 - 2.5" /63mm

Tunable White High Output

LED Type CT10 - 3.3" /83mm
LED Type CT13 - 3.3" /83mm

Warm Dim

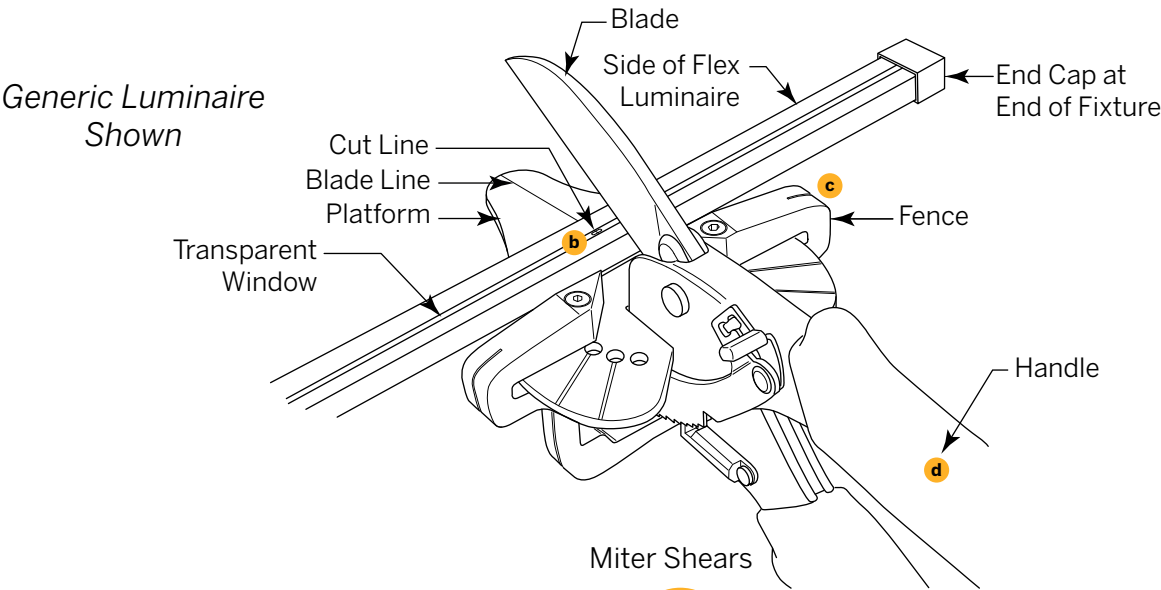
LED Type 14R - 3.3" /83mm

RGB

LED Type S12 - 2.5" /63mm

IMPORTANT! All cuts are to be taken from the non-powered end!

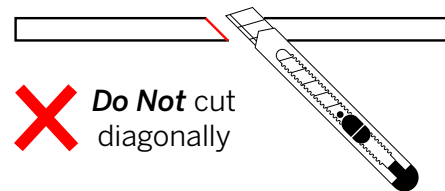
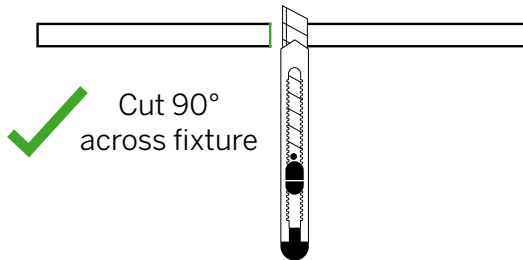
- a** When cutting the Luminaire in the field, it is important to cut as perpendicular as possible. One way to do this is to use a pair of Miter Shears that has a fence 90° to the cut.



Step 4 - **How to Field Cut the Flex Luminaire** (continued)

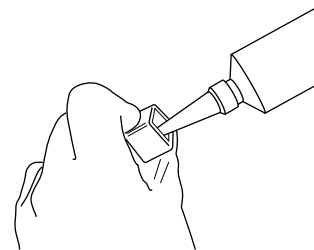
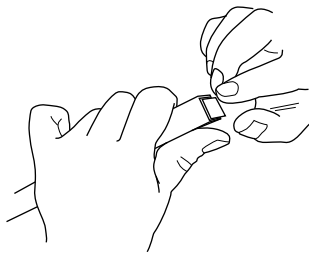
- b** Place Luminaire on Tool Platform with Transparent Window facing up as shown above. Line up Cut Line with Blade Line.
- c** Make sure Fence is at 0°, perpendicular to Blade.
- d** Squeeze Handles firmly to cut.

Whether one uses Miter Shears or not, it is important that Flex be cut at 90° across the fixture and not at an angle.



Apply End Cap

With this new cut, an End Cap needs to be applied. (1) End Cap is supplied with each length of Flex. For example, if 300 feet was purchased in a single length, one End Cap is supplied. But if three 100 foot lengths were purchased, three End Caps would be supplied. Additional End Caps are available, if needed.

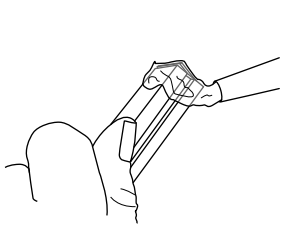


- a** Place Silicone Square at freshly cut end. Orient Square such that it lays entirely within confines of end shape.
- b** Fill interior bottom and sides of End Cap with supplied silicone* sealant. Set aside.

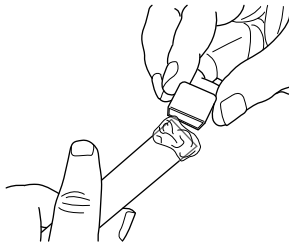
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**Supplied silicone sealant is proprietary and specially formulated.*

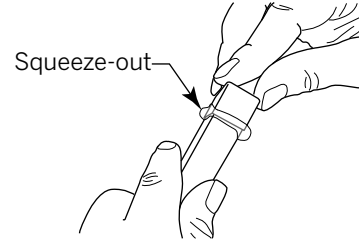
Step 4 - *How to Field Cut the Flex Luminaire* (continued)



- c** Squeeze silicone sealant all around the last ½" of the newly cut end.



- d** Mount End Cap.

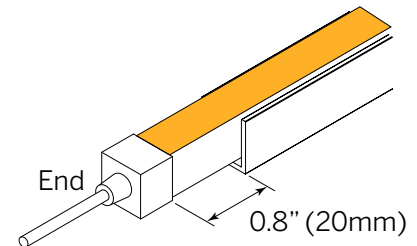
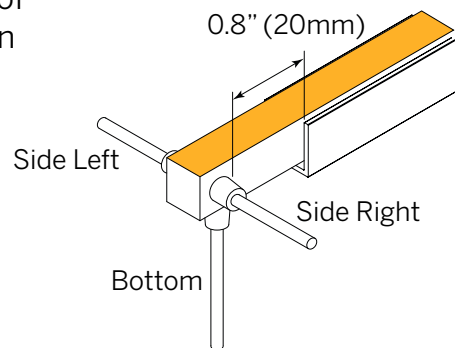


- e** Push End Cap onto Luminaire End. Wipe squeeze-out off and set aside to dry for 30-60 minutes.

Step 5 - *Install Luminaire*

The Flex 15 x 15 Horizontal sits in the Aluminum Profile via a friction fit. The Luminaire is retained in the Locking Profile and the Deep Locking Profile via an integral spring. Luminaire is held in the Stainless Clip/Profile by a ridge along the top edge that catches a groove on either side of the Luminaire. It is secured in the Stainless Flexible Profile by small linear barbs that catch the sides of the Fixture.

When using Profiles, the Feed Cable end must sit *outside* of Profile. The distance between the Power Feed - whether on the Side Left, Side Right, Bottom or End - and the beginning of the the Profile should be at least 0.8" (20mm). See illustrations at right.



Generic Luminaires Shown

- a** Drill additional mounting holes in Aluminum Profiles, if needed.
- b** Fasten the Aluminum Profile(s) or Stainless Mounting Clips/Profile(s) to surface with appropriate screws (by others).
- c** Space Clips no more than 12 inches (300mm) apart and within 2 inches (50mm) of each bend.
- d** Press Luminaire into Clips or Profiles firmly. **Do not** allow a vertical bend greater than 10°.
- e** Wire Luminaire according to Driver specified. See Illustrations in **Step 6**, pages 9-15.
- f** Energize!

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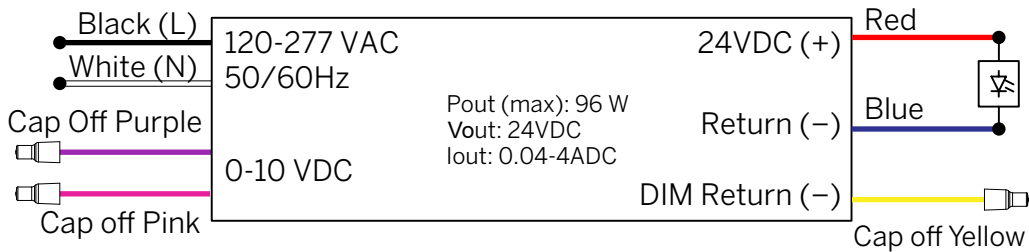
Step 6 - *Wire Luminaire*

The following wiring diagrams for Constant Voltage remote drivers are included here for reference. For additional details, such as Maximum Wiring Distance, compatible dimmers, and driver box dimensions, please refer to the Driver Information Guide on our website.

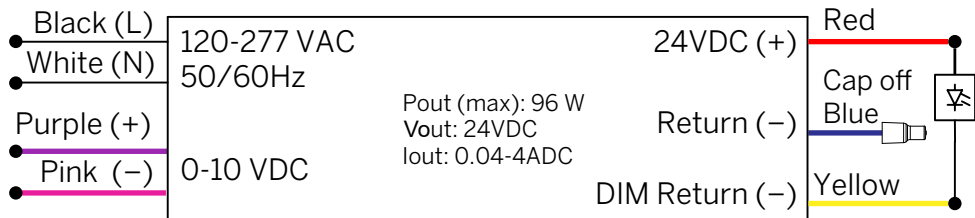
DO10 = eldoLED, Non-Dim or 10% 0-10V dimming (120-277V)

For:
Static White
Static White High Output
Static White Free Cut

Non-Dimming



Dimming



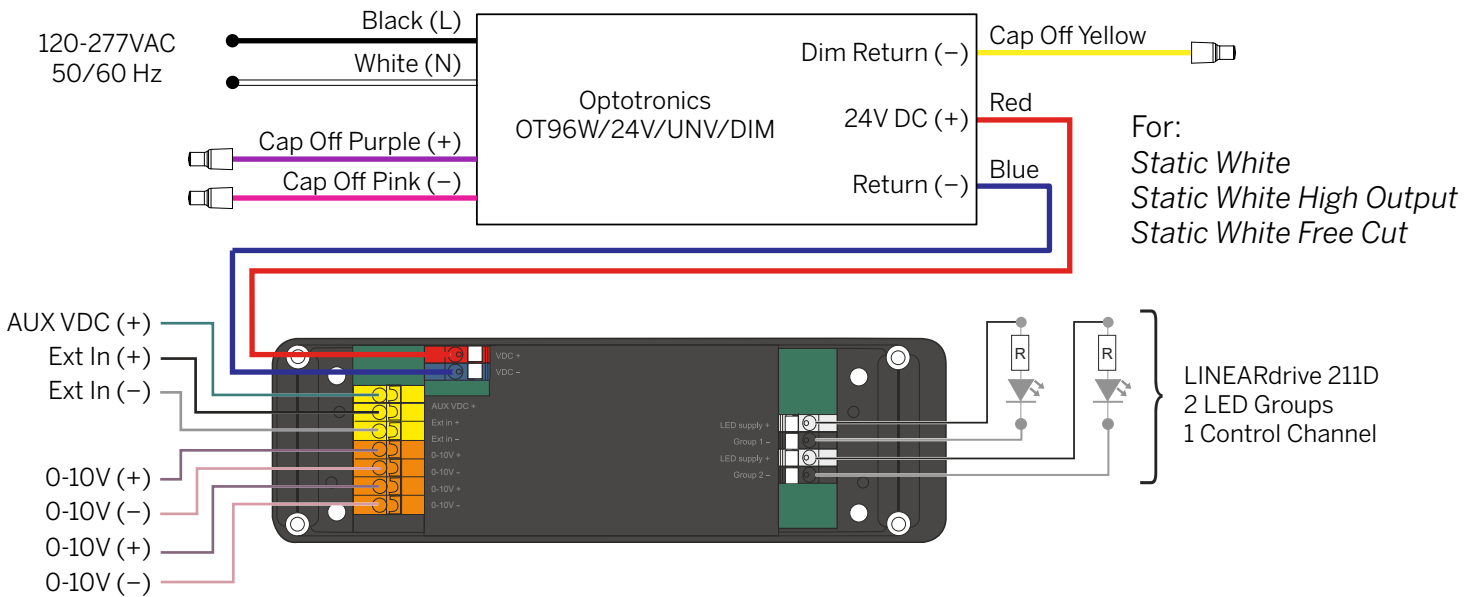
WARNING: If not connected to a 0-10V dimmer, driver **MUST** be wired as Non-dim. Not doing so can cause the driver and the fixtures to fail prematurely.

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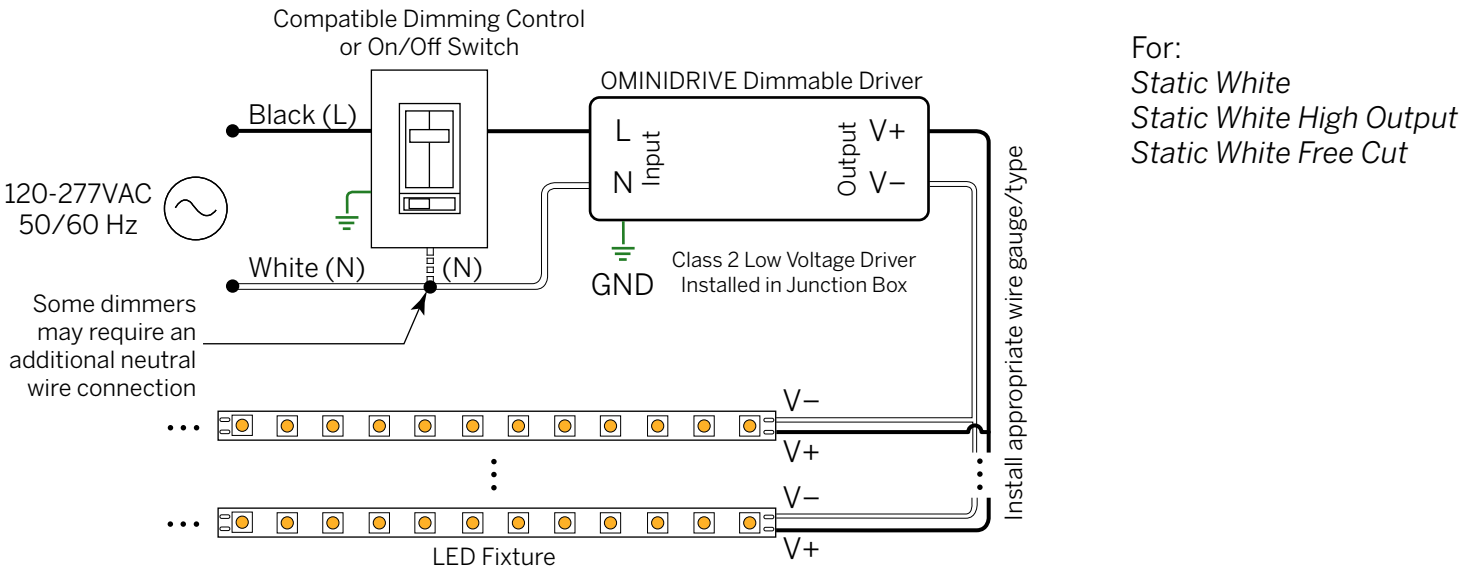


Step 6 - *Wire Luminaire* (continued)

EL96 = eldoLED 0-10V, 0.1% dimming (120-277V)



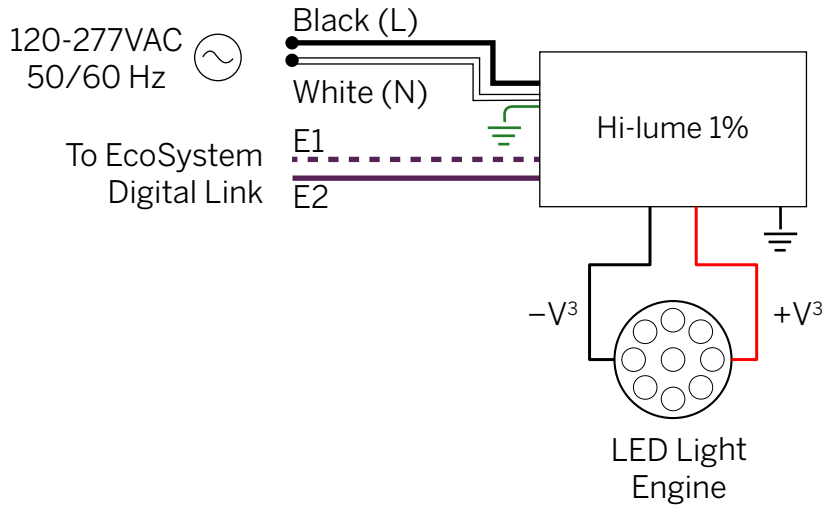
DPH = Phase Dimming, 1% dimming (120V only)



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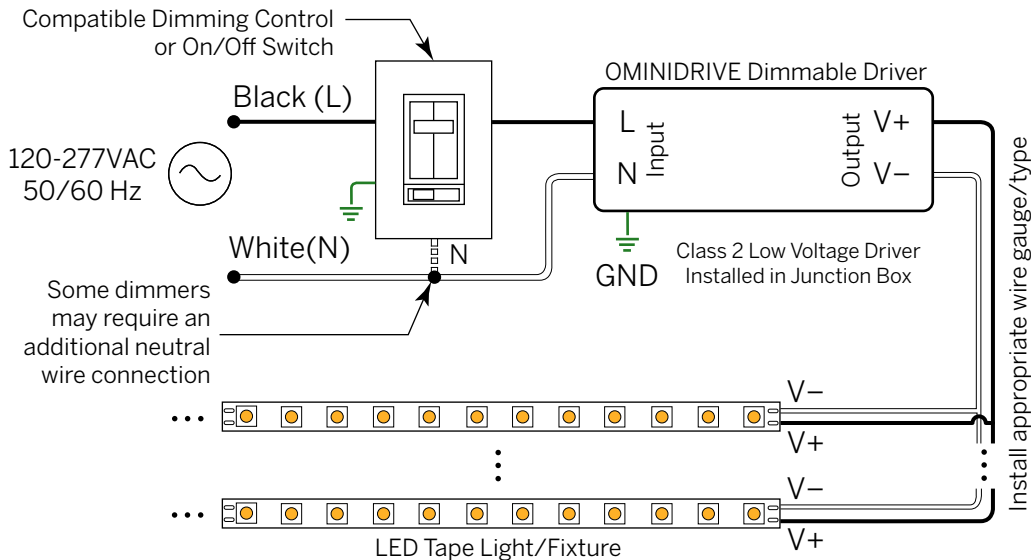
Step 6 - **Wire Luminaire** (continued)

L3D0E = Lutron Hi-lume Premier 0.1% EcoSystem (120-277V)



For:
 Static White
 Static White High Output
 Static White Free Cut

UNV96-WL = 0-10V/Phase Dim 96W Wet Location, 1% dimming (120-277V)



For:
 Static White
 Static White High Output
 Static White Free Cut

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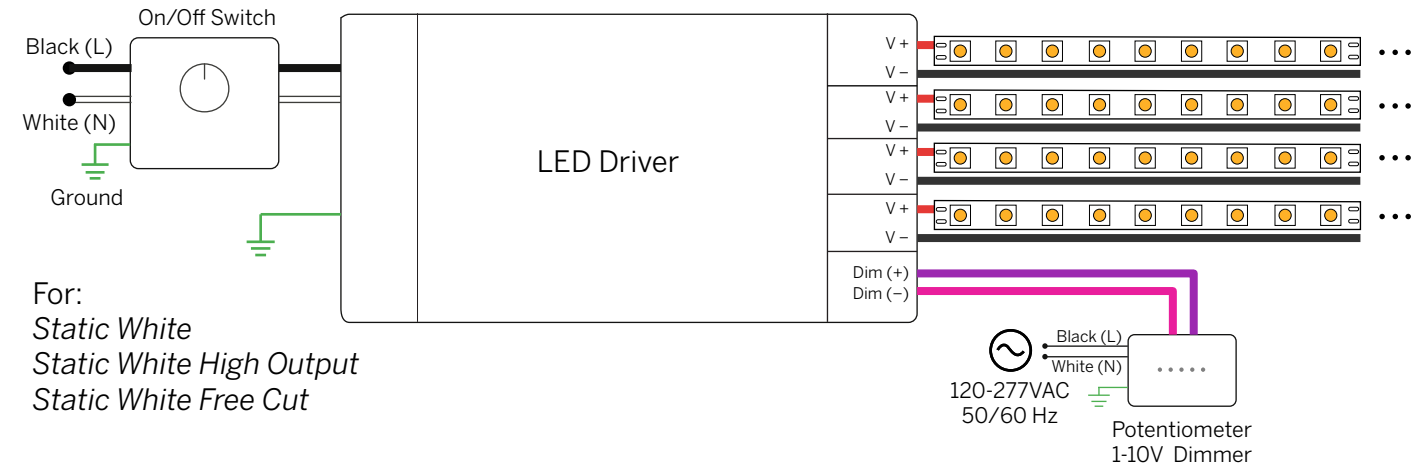
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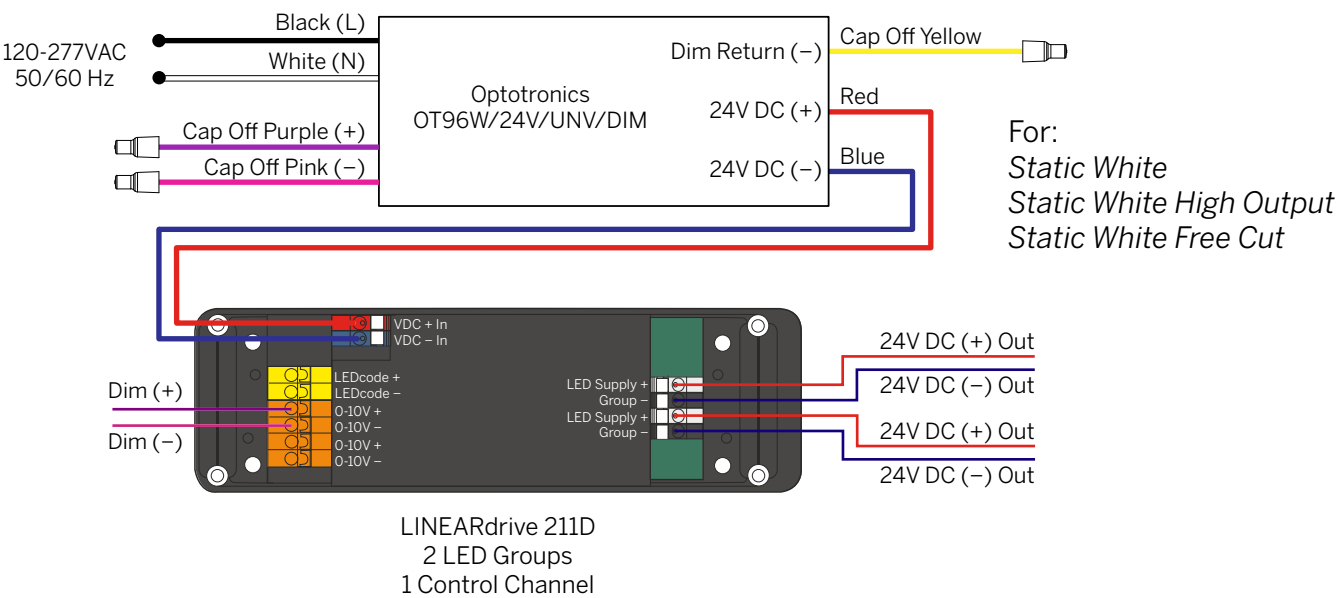
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Step 6 - **Wire Luminaire** (continued)

UNV384-WL = 0-10V/Phase Dim 384W Wet Location, 1% dimming (120-277V)



DALI-DT6 = eldoLED DALI-2 (DT6), 0.1% dimming (120-277V)

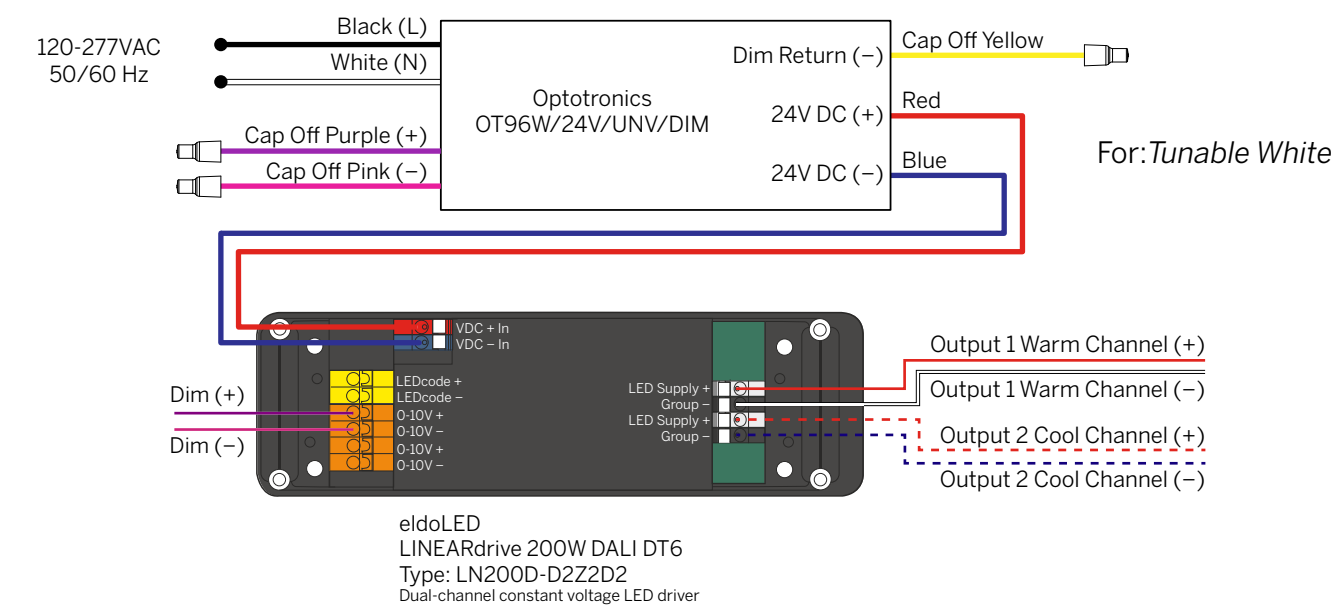


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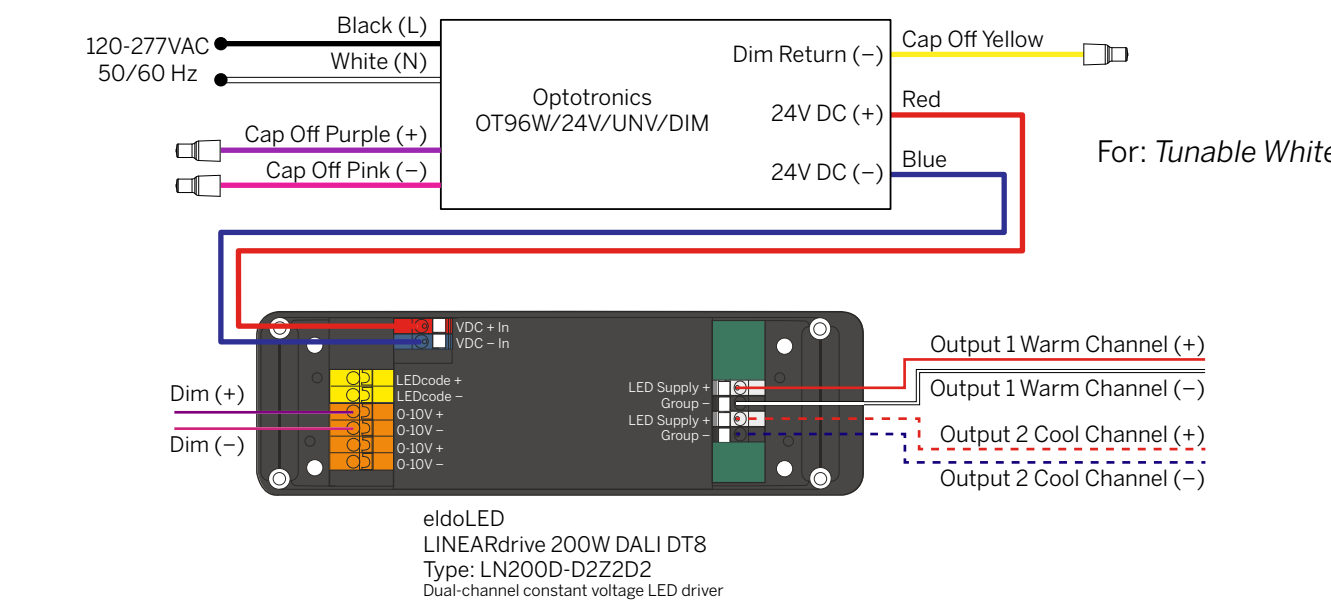


Step 6 - *Wire Luminaire* (continued)

DALI-DT6 = eldoLED DALI-2 (DT6), 0.1% dimming (120-277V)

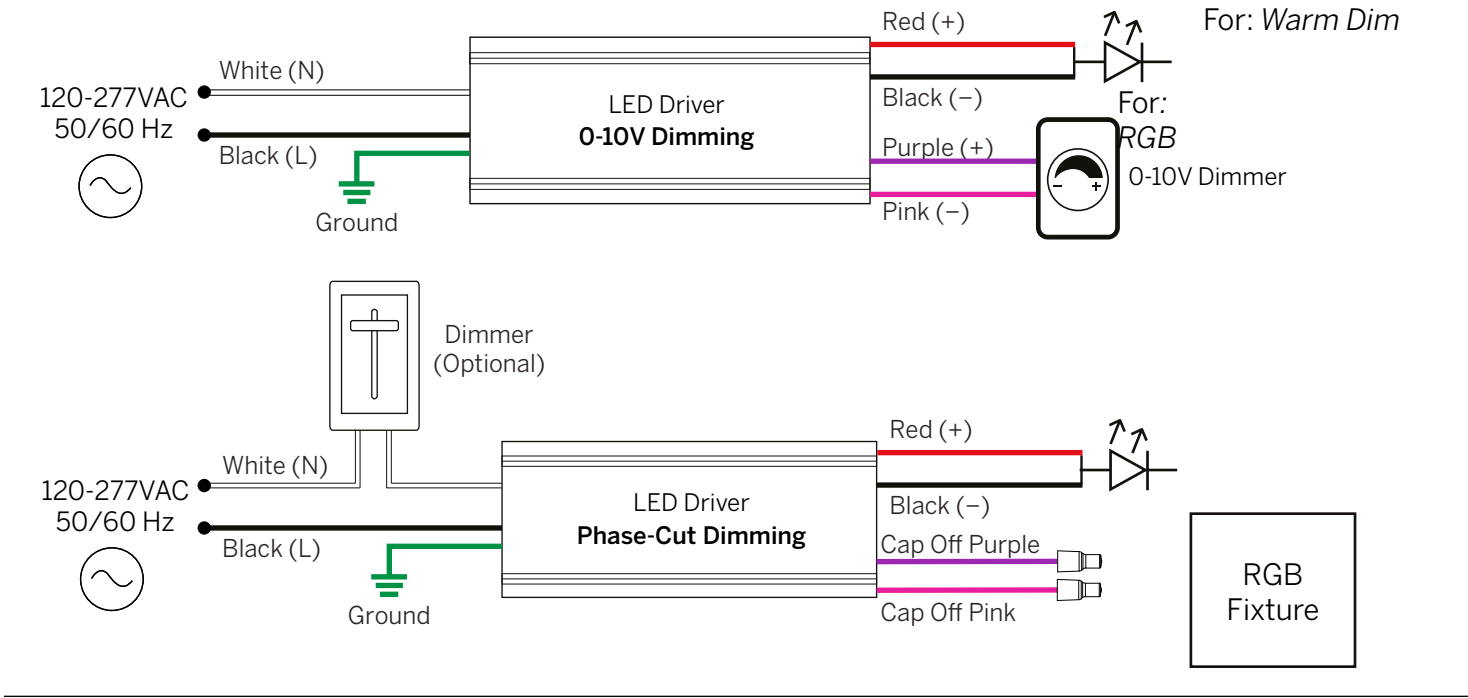


DALI-DT8 = eldoLED DALI-2 (DT8), 0.1% dimming (120-277V)



Step 6 - **Wire Luminaire** (continued)

MAGSDM96-WD = 0-10V/Phase Dim 96W, 0.1% CCR dimming (120-277V) Phase - 120V only



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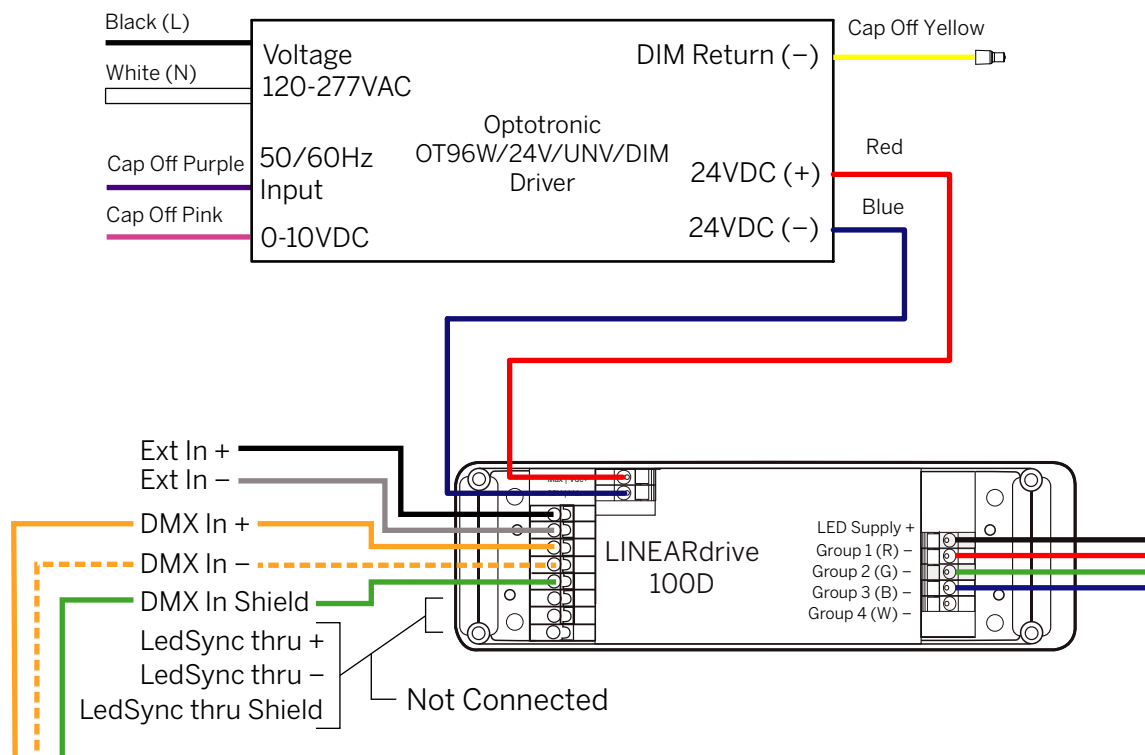
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Step 6 - **Wire Luminaire** (continued)**DMX = eldoLED 24V, 0.1% DMX Dimming**

NOTE: A second OT96W & LINEARdrive 100D pair may be daisy-chained to the first set of DMX connectors (DMX In +, DMX In -, DMX In Shield). A third pair may be daisy-chained to the second, etc.

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