

Installation Instructions

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



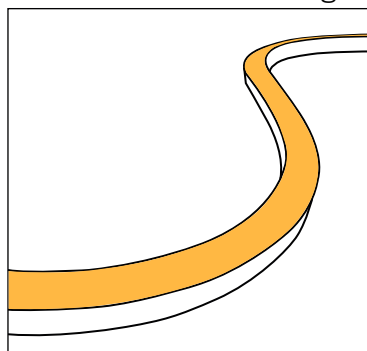
To prevent electrical shock disconnect electrical supply before installation or servicing.
Never connect a Fixture to a Live Driver!!!

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



20 x 18 Horizontal

Static White
Static White High Output
Static White Free Cut
Tunable White
Tunable White High Output
Warm Dim

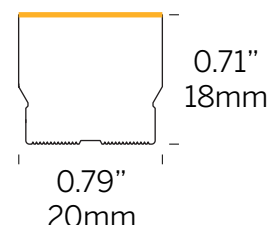
Minimum Horizontal Bend
Ø ≥ 9.8" / 250mm

RGB
RGBW
Pixel Static White
Pixel Tunable White
Pixel RGB
Pixel RGBW

Minimum Horizontal Bend
Ø ≥ 11.8" / 300mm



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

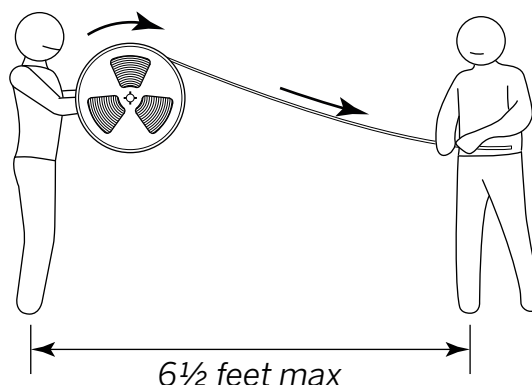


NOTE: Yellow (or light gray in B/W) indicates a lit surface.

Working Temperature Range
-40° to 130°

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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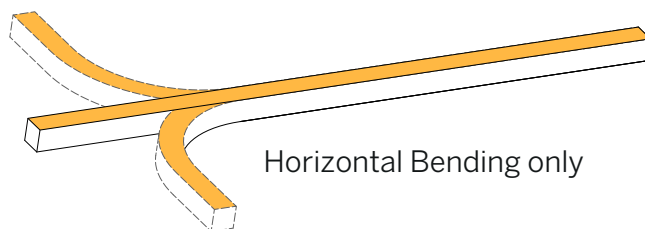
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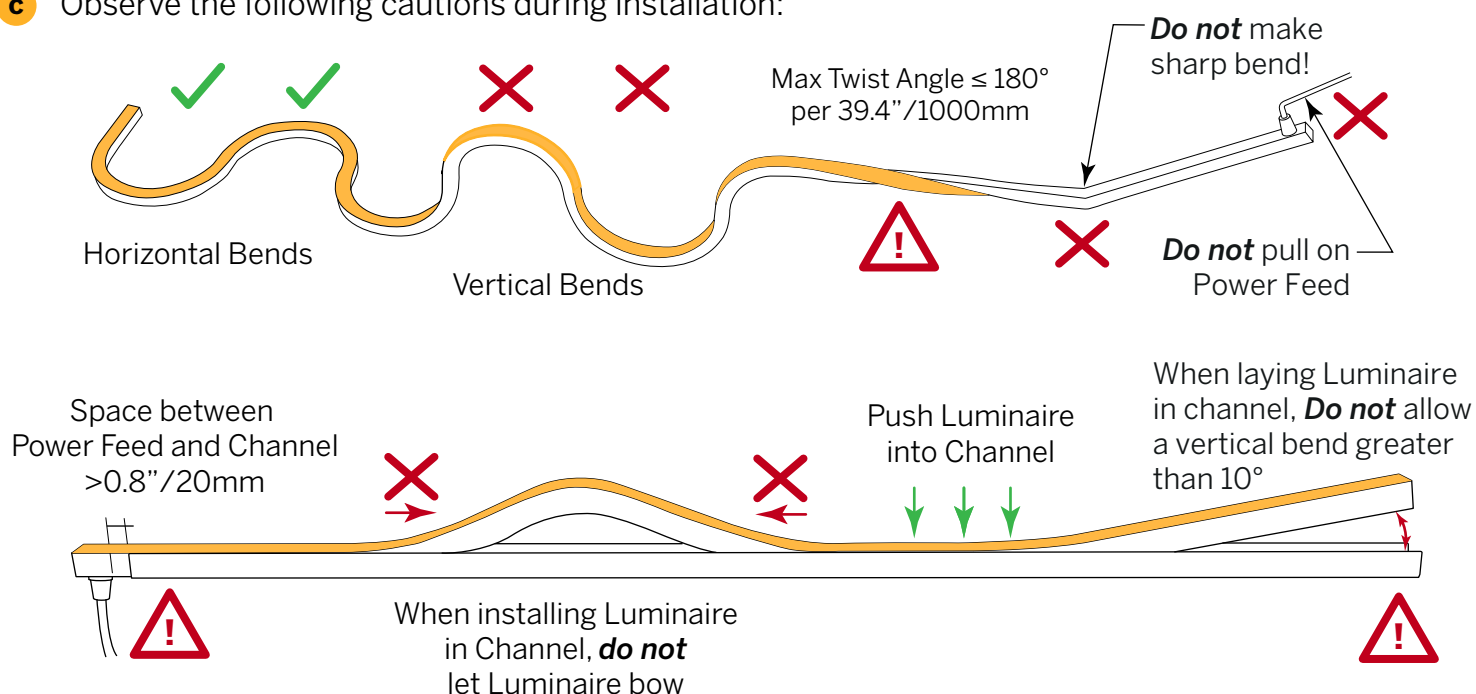
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Step 2 - *Handling the Luminaire* (continued)

- b** The Flex 20 x 18 Horizontal Luminaire may be represented by the illustration at right. All Horizontal Luminaires bend in the **horizontal plane only** - Left or Right.

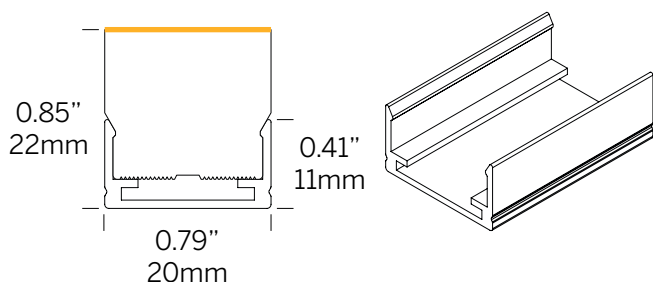


- c** Observe the following cautions during installation:



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}

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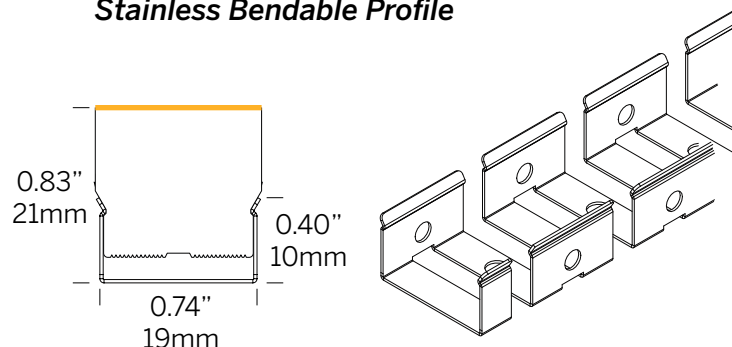
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Step 3 - **Accessories** (continued)

Stainless Bendable Profile



Available in:

39.4\"/>

39.4\"/>

NOTES:

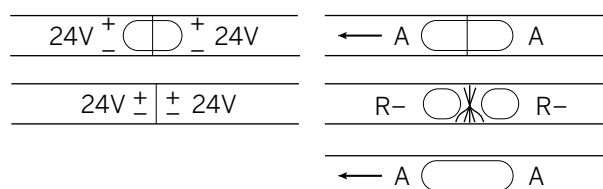
- 1 Mounting screws and anchors supplied by others.
- 2 All clip-length profiles and full-length profiles are pre-drilled for mounting.
- 3 Full-length profiles are pre-drilled with (3) holes per 39.37\"/>

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

All versions of the Flex 20 x 18 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.

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



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\"/>

Static White High Output

LED Type S13 - 2\"/>

Static White Free Cut

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

Tunable White

LED Type CT10 - 2.5\"/>

Tunable White High Output

LED Type CT10 - 3.3\"/>

Warm Dim

LED Type 14R - 3.3\"/>

RGB

LED Type L12 - 3.9\"/>

RGBW

LED Type L16 - 3.9\"/>

Pixel Static White

LED Type DMX10P13 - 3.9\"/>

Pixel Tunable White

LED Type CTDMX10P13 - 3.9\"/>

Pixel RGB

LED Type DMX02P14 - 19.7\"/>

Pixel RGBW

LED Type DMX10P16 - 3.9\"/>

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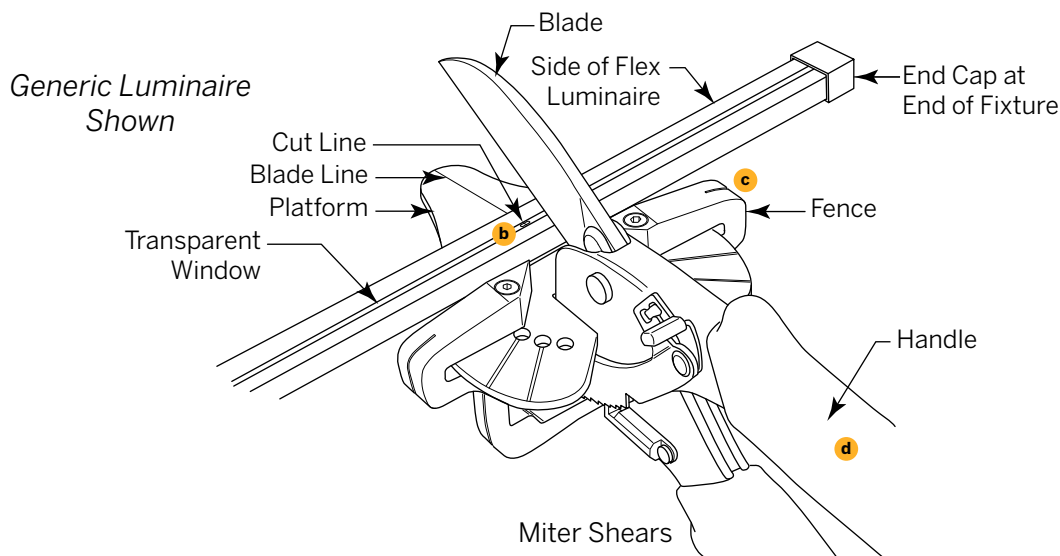
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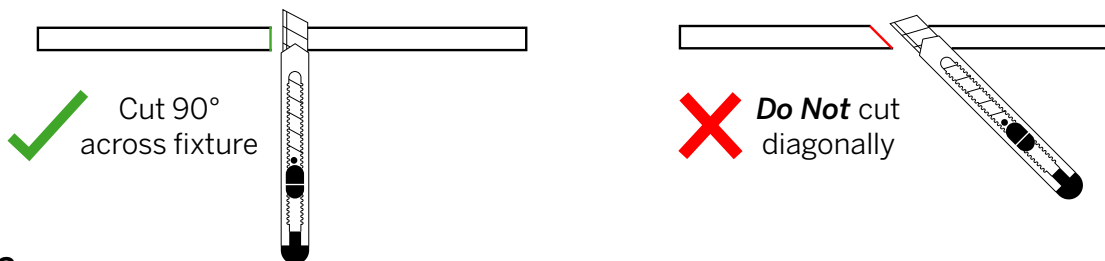
Step 4 - **How to Field Cut the Flex Luminaire** (continued)**IMPORTANT!** All cuts are to be taken from the non-powered end!

- 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.



- 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.

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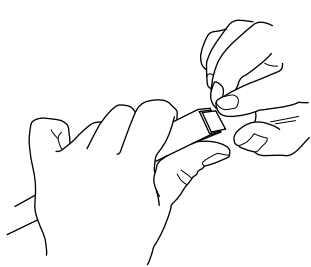
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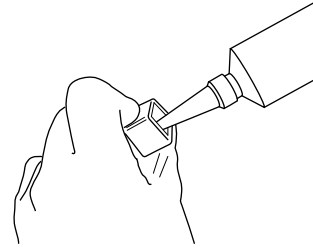


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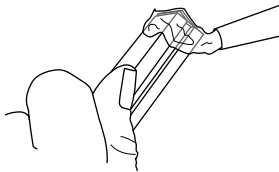
Step 4 - **How to Field Cut the Flex Luminaire** (continued)



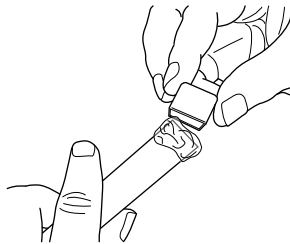
- a** Place Silicone Square at freshly cut end. Orient Square such that it lays entirely within confines of end shape.



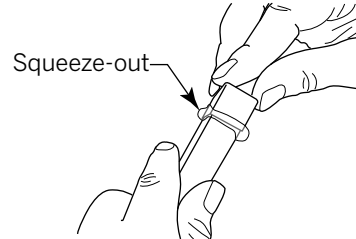
- b** Fill interior bottom and sides of End Cap with supplied silicone* sealant. Set aside.



- c** Squeeze silicone sealant all around the last 1/2" of the newly cut end.



- d** Mount End Cap.



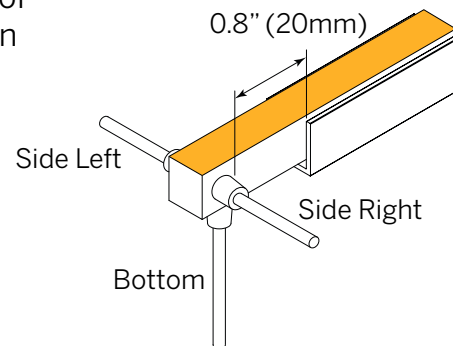
- e** Push End Cap onto Luminaire End. Wipe squeeze-out off and set aside to dry for 30-60 minutes.

Step 5 - **Install Luminaire** *Supplied silicone sealant is proprietary and specially formulated.

The Flex 20 x 18 Horizontal sits in the Aluminum Profile and in the Stainless Flexible Profile via a friction fit.

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 and next page.

- a** Drill mounting holes in Aluminum Profile as needed, at least one every 12". Stainless Flexible Profile is predrilled.
- b** Fasten the Aluminum Profile(s) or Stainless Mounting Clips/Profile(s) to surface with appropriate screws (by others).



Generic Luminaire Shown

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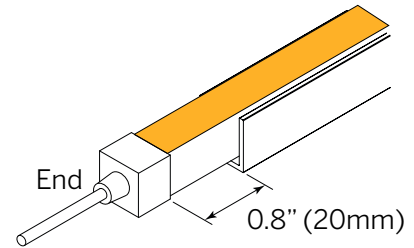
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Step 5 - **Install Luminaire** (continued)

- 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 6-12.
- f** Energize!



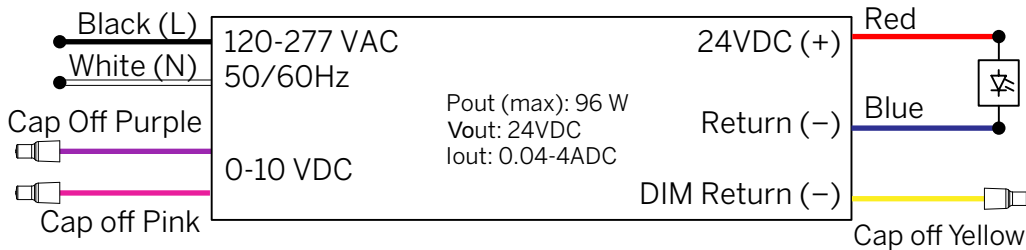
Generic Luminaire Shown

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.

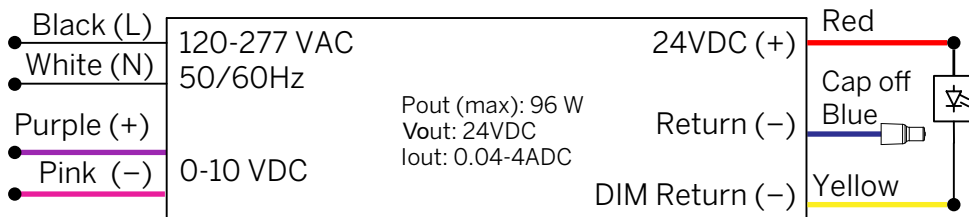
D010 = eldoLED, Non-Dim or 10% 0-10V dimming (120-277V)

Non-Dimming



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

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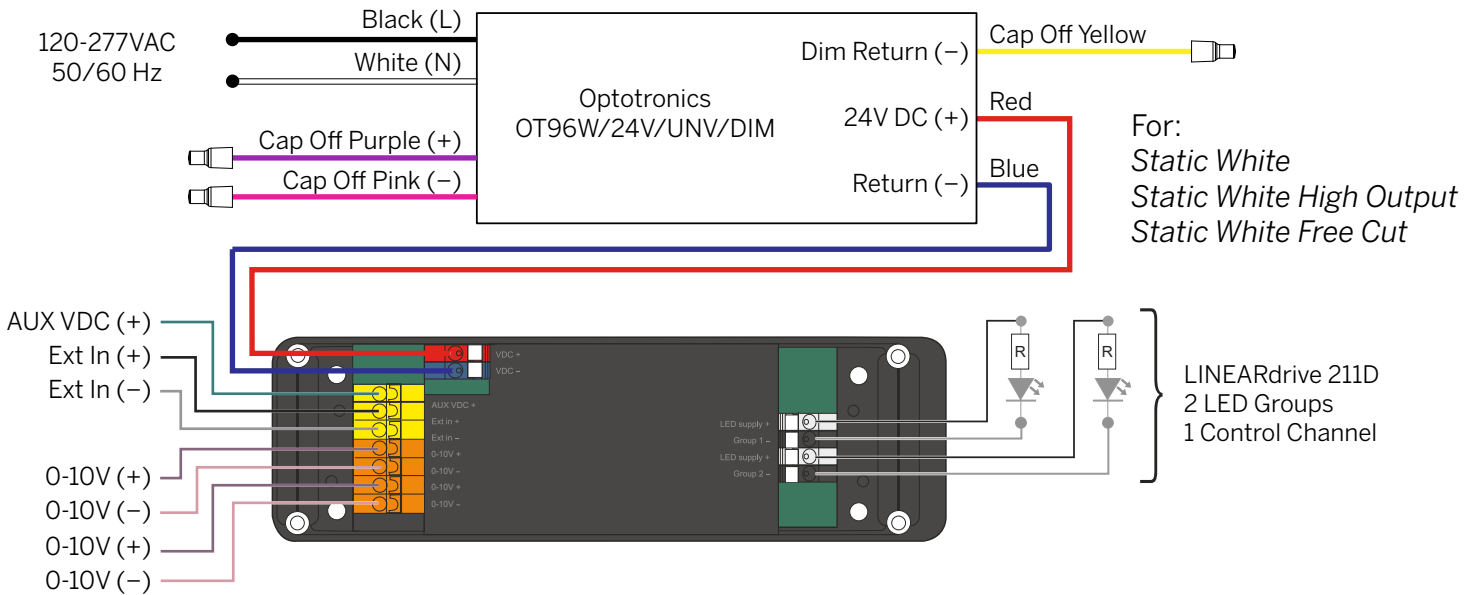
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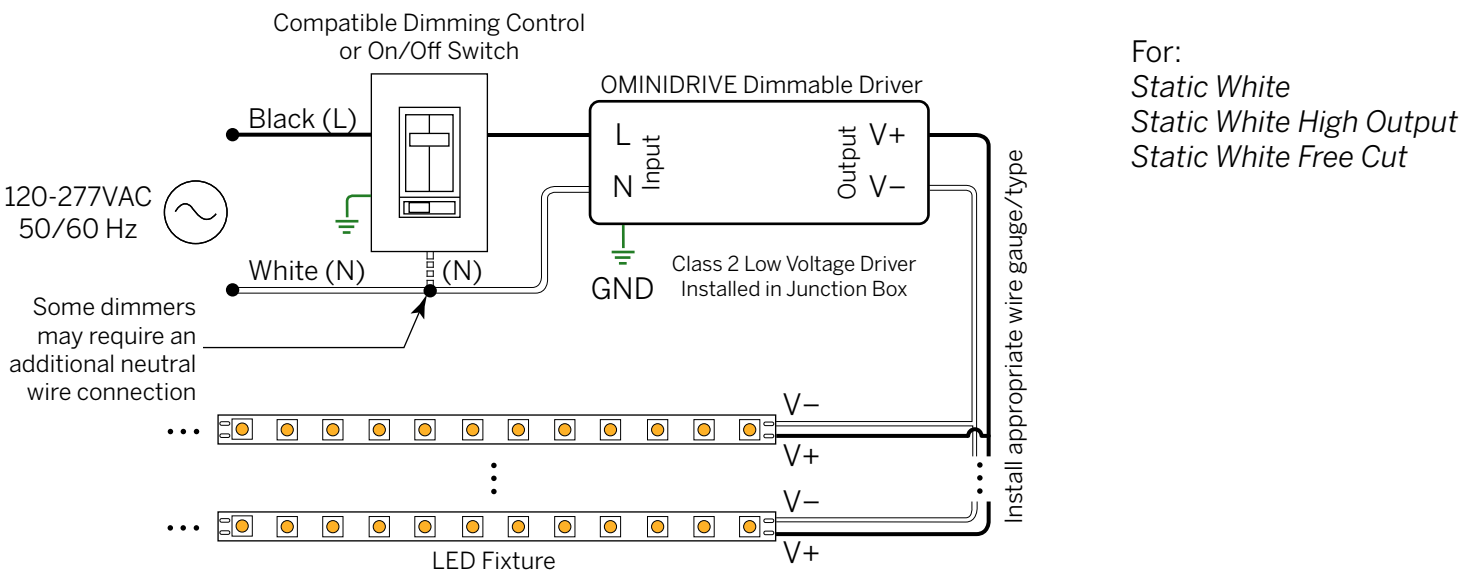
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Step 6 - **Wire Luminaire** (continued)

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



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



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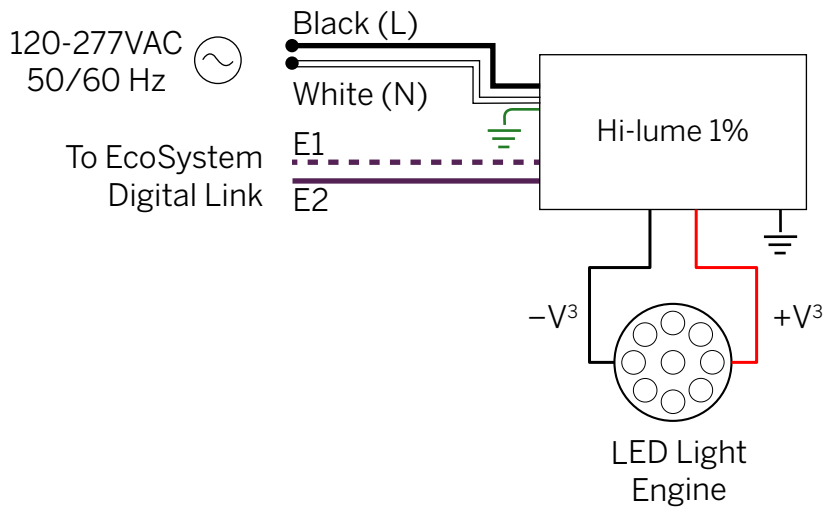
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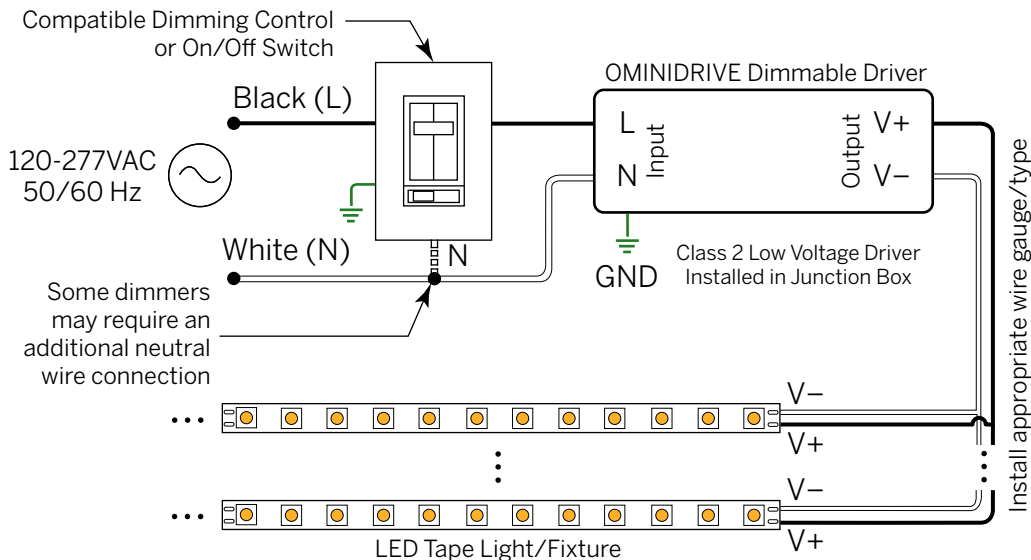
Step 6 - **Wire Luminaire** (continued)

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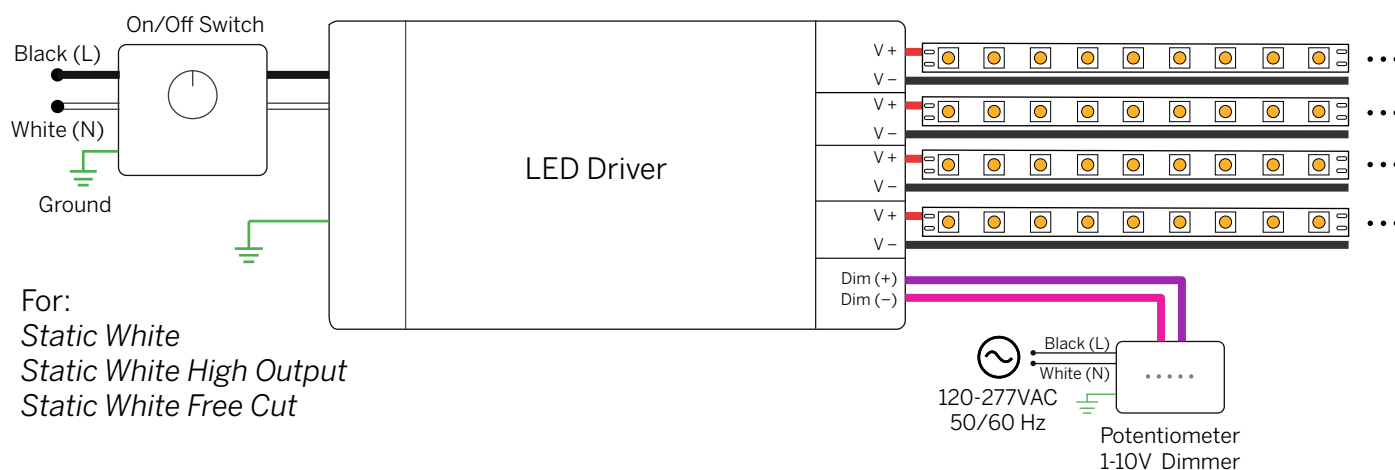
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UNV384-WL = 0-10V/Phase Dim 384W Wet Location, 1% dimming (120-277V)



120-277VAC
50/60 Hz

Black (L)

White (N)

Cap Off Purple (+)

Cap Off Pink (-)

Optotronics
OT96W/24V/UNV/DIM

Dim Return (-)

24V DC (+)

24V DC (-)

Cap Off Yellow

Red

Blue

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

VDC + In

VDC - In

LEDcode +

LEDcode -

0-10V +

0-10V -

0-10V +

0-10V -

Dim (+)

Dim (-)

LED Supply + Group -

LED Supply - Group -

24V DC (+) Out

24V DC (-) Out

24V DC (+) Out

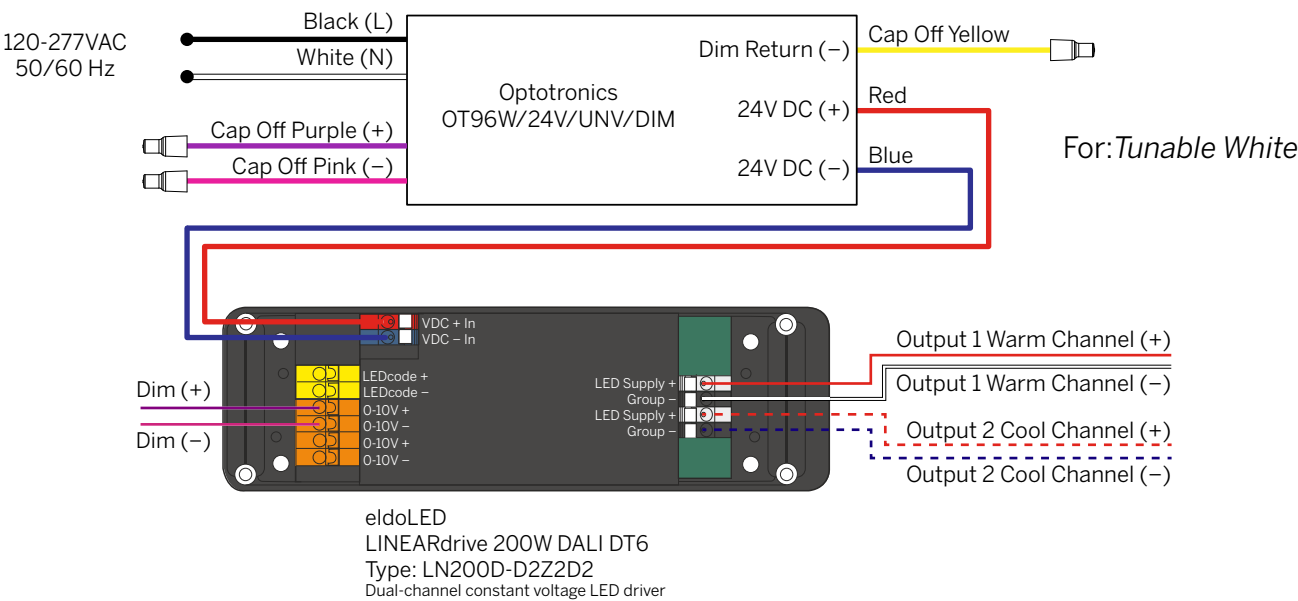
24V DC (-) Out

LINEARdrive 211D
2 LED Groups
1 Control Channel

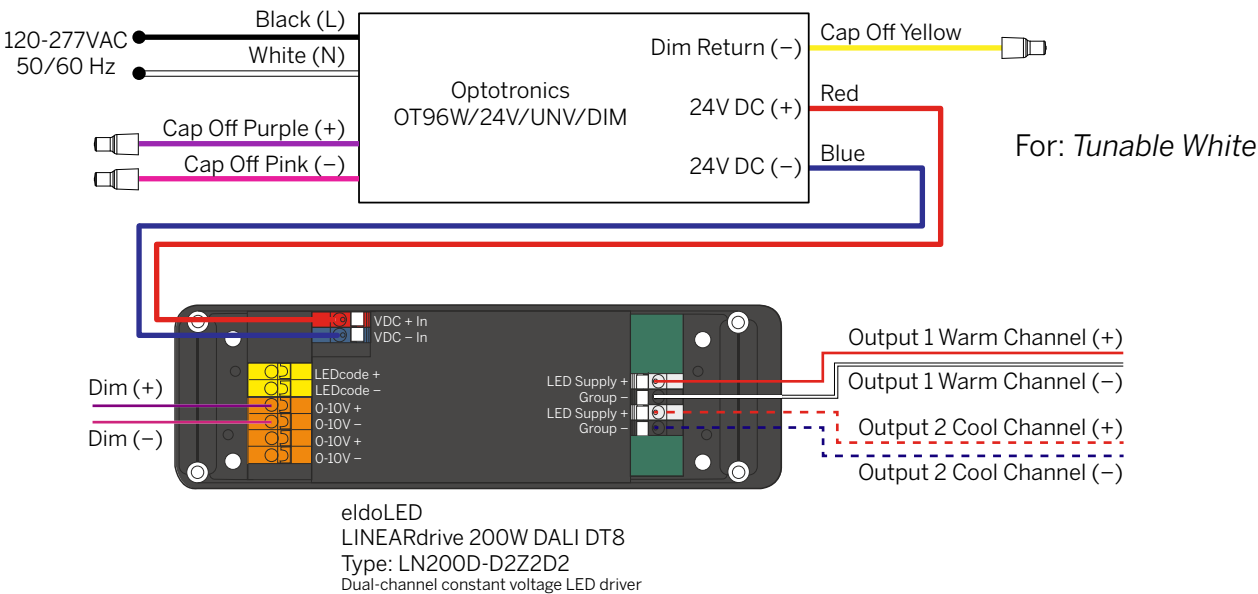
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Step 6 - **Wire Luminaire** (continued)

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

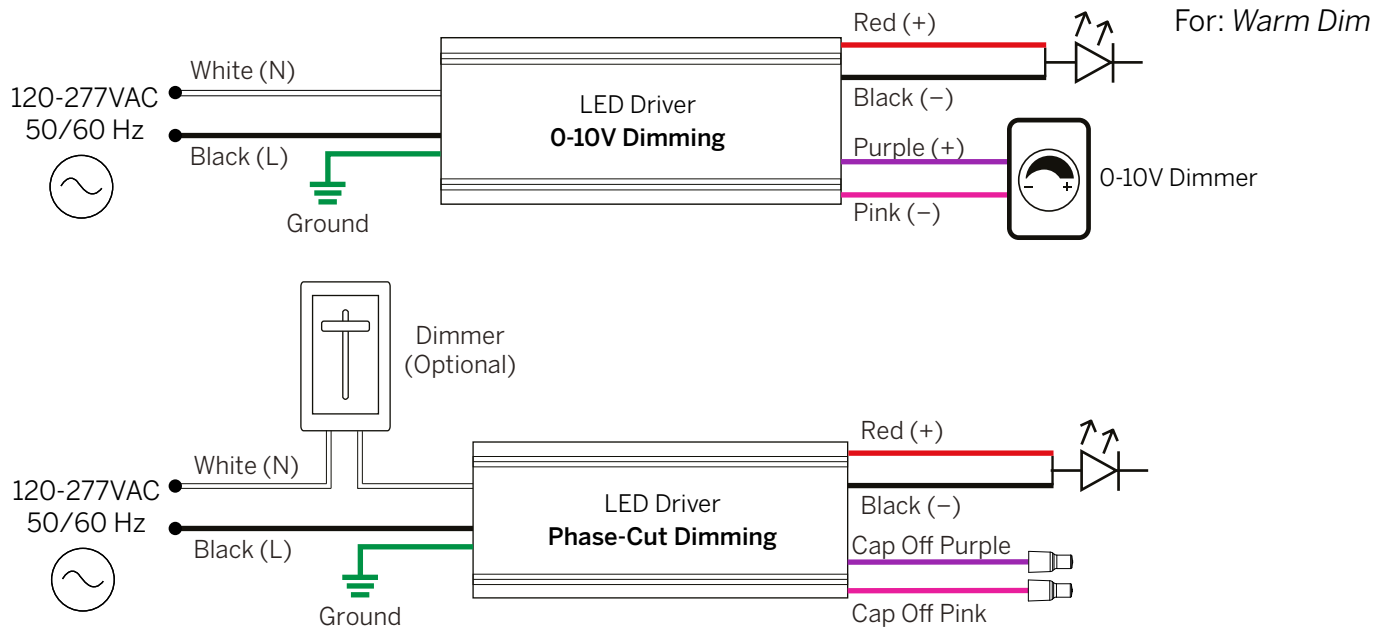


DALI-DT8 = eldoLED DALI-2 (DT8), 0.1% dimming (120-277V)



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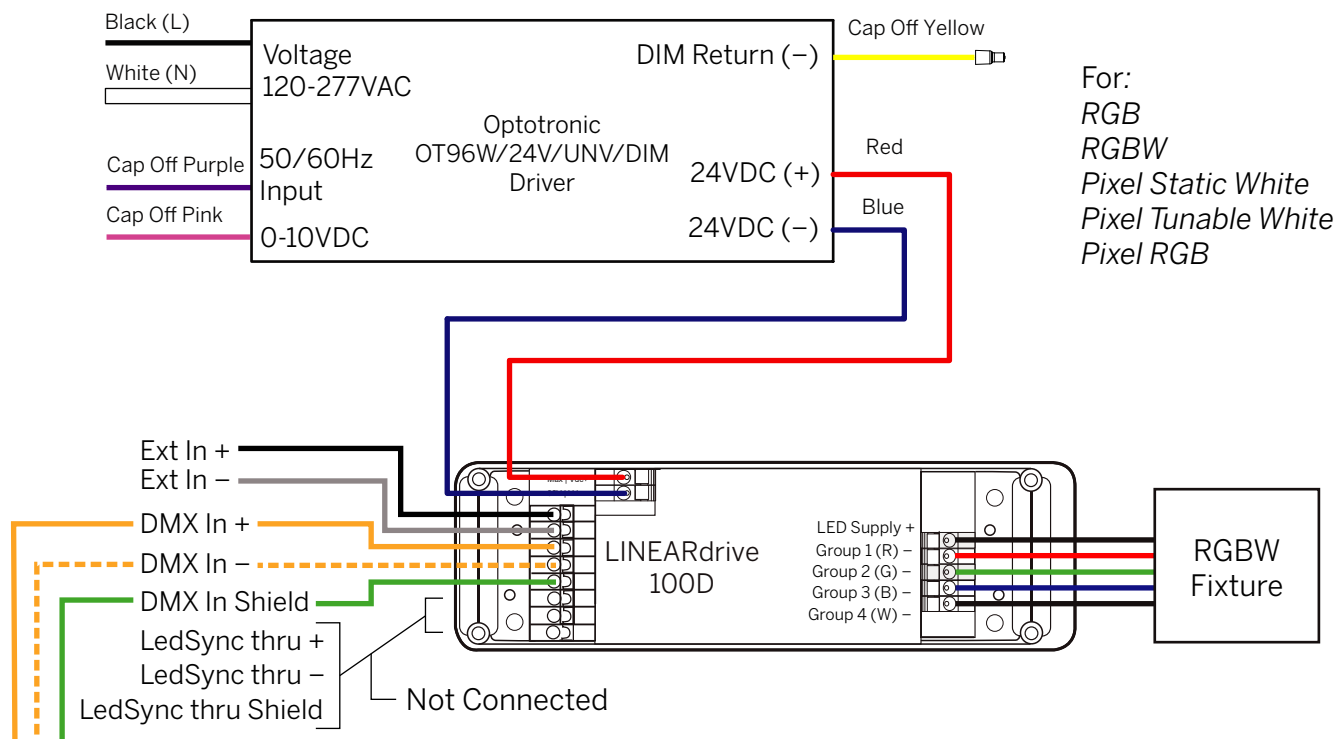
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Step 6 - **Wire Luminaire** (continued)

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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