

# VIA 2 PEAK CANDELA

SURFACE  
CHROMAWERX - SOLA, DUO



Via 2 Peak Candela, part of the Via Low-Glare collection, is available in 40° and 60° beams across recessed, surface, and pendant configurations and can be specified as standalone units or continuous runs.

## Key Features

- Direct optic delivering significantly higher peak candela vs. HLO opal lens
- Narrow beam with tighter field angles for focused illumination
- Translucent lens with a glowing ceiling presence
- No light leakage; optimized UGR values
- High efficiency: up to 140 lm/W
- Ideal for office and workplace applications requiring both performance and comfort

## DIRECT



PCO40 PCO60



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Project: \_\_\_\_\_

Type: \_\_\_\_\_

## Order Guide

LUMINAIRE ID	DISTRIBUTION	OPTIC	LIGHT SOURCE <sup>1</sup>	CRI
<b>VIA2PCS</b>	<b>D</b>			
<b>VIA2PCS</b> - Via 2" Peak Candela Surface	<b>D</b> - Direct	<b>PCO40</b> - Peak Candela Optic, 40° beam <b>PCO60</b> - Peak Candela Optic, 60° beam	<b>SOLA</b> - Dim-to-warm single channel control 35K to 22K <b>DUO</b> - Tunable white 2-channel control 65K to 27K  <sup>1</sup> Static white also available. Consult other spec sheet.	<b>80CRI</b> - 80+ CRI <b>90CRI</b> - 90+ CRI

LUMEN PACKAGE	LUMINAIRE LENGTH	VOLTAGE	DRIVER <sup>3</sup>
<b>350LMF</b> - Low output 350 lm/ft <b>500LMF</b> - Medium output 500 lm/ft <b>750LMF</b> - High output 750 lm/ft <b>1000LMF</b> - Ultra high output 1000 lm/ft	<b>#FT#IN</b> <sup>2</sup> - Specify nominal length (#) in 1' and/or 1" increments  <b>Standard nominal lengths:</b> Single units: 2' to 12' Continuous runs: lengths over 12'  <sup>2</sup> • Minimum 2'. • Minimum 4' for DMX. • PCO is available in 7" and 11" increments. If the fixture length is not a multiple of these optic increments, blanks of equal length will be added at both ends of the fixture.	<b>120V</b> - 120V <b>277V</b> - 277V <b>UNV</b> - 120V-277V	<u><b>SOLA</b></u> <b>SD1</b> - Single 0-10V input  <u><b>DUO</b></u> <b>DMX</b> <sup>4,5</sup> - DMX <b>DDA</b> <sup>5</sup> - DALI DT6 <b>DDA8</b> <sup>5</sup> - DALI DT8 <b>DD1</b> - Dual 0-10V input for CCT/intensity <b>LD2</b> <sup>5</sup> - Lutron DALI-2 digital  <sup>3</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>4</sup> For more information, see pages 6 to 11. <sup>5</sup> On-site commissioning is required.

ELECTRICAL	MOUNTING	FINISH	OPTION
<b>1C</b>			
<b>1C</b> - 1 circuit	<b>DRC</b> - Drywall ceiling <b>GRD</b> - Grid ceiling	<b>W</b> - Matte white <b>AL</b> - Aluminum <b>B</b> - Matte black <b>CF#</b> - Custom finish, specify RAL#	<b>FU120</b> - Fuse 120V <b>FU277</b> - Fuse 277V <b>NA</b> - None

## Accessories

Optional, order separately

WALL CONTROLLER <sup>6</sup>	
<b>DMX</b>	<b>DD1</b>
<b>WCW##FT</b> <sup>7</sup> - DMX wall controller white <b>WCB##FT</b> <sup>7</sup> - DMX wall controller black	<b>TWCW##FT</b> <sup>8</sup> - Dual 0-10V wall controller white <b>TWCB##FT</b> <sup>8</sup> - Dual 0-10V wall controller black
<sup>6</sup> Specify wire length (##) in feet. <sup>7</sup> Available with DMX only. For more information, see pages 6 to 11, or consult factory. <sup>8</sup> Available with DD1 only. For more information, see page 12, or consult factory.	

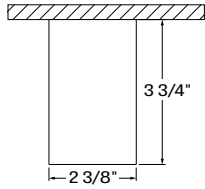


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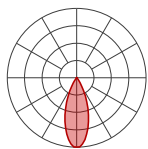
## Dimensions



## Photometrics

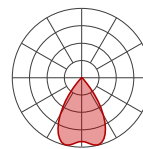
Values calculated based on a 4' fixture at 3500K for all optics.

PCO40



LM/FT	W/FT	LM/W
350	2.5	143
500	3.6	140
750	5.4	138
1000	7.4	135

PCO60



LM/FT	W/FT	LM/W
350	2.4	144
500	3.5	141
750	5.4	139
1000	7.4	136

## MULTIPLIER TABLES

Use these tables to get results for different color temperatures for all photometric tables.

### SOLA

CCT	WATTS	LPW
	80+ CRI / 90+ CRI	80+ CRI / 90+ CRI
3500K	1.00	1.00

### DUO

CCT	WATTS	LPW
	80+ CRI / 90+ CRI	80+ CRI / 90+ CRI
2700K	1.04	0.96
6500K	0.96	1.04



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## Technical Specifications

### OPTICS

#### Peak Candela Optic (PCO)

The Peak Candela Optic (PCO) combines TIR technology with louver shielding, producing a narrow beam with significantly higher central intensity than opal lenses while maintaining exceptional visual comfort. Its translucent surface softly reflects light onto the ceiling, creating a subtle, pleasant glow.

### LIGHT SOURCE

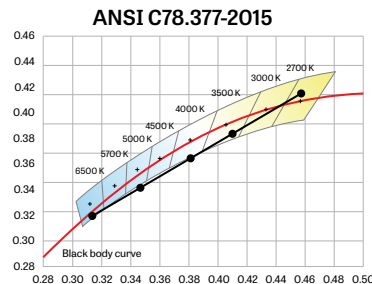
Custom linear array of alternating color temperature mid-flux LEDs are mounted directly to the housing for optimal thermal performance. For the DUO products, a color temperature range from 6500K-2700K is achievable with color points on or below the black body curve. For the SOLA products, a color temperature range from 3500K-2200K is controlled synchronously with intensity. Color consistency between fixtures is maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

#### Chromawerx SOLA

It is a single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple analog control sends a common signal to dual output digital drivers, which are programmed to adjust a specially populated LED array to emulate the effect of dimming a filament source. Dimming range is programmable but the default option runs from 3500K at 100% of full power to 2200K at 5% of full power. CRI is maintained above 80 throughout the dimming range.

#### Chromawerx DUO

It is a two-channel control. It uses an analog (0-10V) protocol for separate control of luminaire CCT and intensity or a digital (DMX, DALI, and LD2) protocol for synchronous control of both warm and cool LED arrays to enable the user to set color temperature and light output. Commonly called "tunable white", Chromawerx two-channel control provides the range of cool (6500K) to warm (2700K) color that can be useful for helping to entrain circadian rhythms, stimulate alertness for improved educational and work productivity, and compensate for jet lag, among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures. CRI is maintained above 80. When paired with DALI drivers (DDA/DDA8), color tuning follows a linear dimming curve.



### LUMINAIRE LENGTH

Via 2 Peak Candela is available in standard lengths of 2' to 12'. Continuous runs are available for run lengths over 12'. Exact run length must be noted in the product code. The minimum length is 2', or 4' for DMX. Lengths can be ordered in 1' and/or 1" increments. PCO is available in 7" and 11" increments. If the fixture length is not a multiple of these optic increments, blanks of equal length will be added at both ends of the fixture.

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

### ELECTRICAL

#### SOLA

##### SD1

Factory-set, adjustable output current LED driver with universal (120-277 VAC) input. Using a single 0-10V control signal, the light output warms in color temperature as it dims down to 1% and 2200K. At maximum driver load, efficiency<86%, PF>0.9, THD<20%.



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CHROMAWERX - SOLA, DUO

### DUO

#### DMX

Factory-set adjustable output current electronic driver with 120-277 VAC line input. Using DMX wall controls (optionally supplied by Lumenwerx) or an existing DMX control system, both channels of LEDs are independently adjustable. Each DMX driver can be independently addressed using the built-in RDM (Remote Device Management) in the field. Dimming down to 1% is attainable. Rated life (90% survivorship) of 50,000 hours at 50°C maximum ambient temperature. At maximum driver load, efficiency<84%, PF>0.9, THD<20%.

#### DALI

Factory-set adjustable output current electronic driver with 120-277 VAC line input. Using an existing DALI control system (supplied by others), one control channel adjusts the fixture color temperature, and the other control channel adjusts fixture brightness. With DALI Type 6, two DALI addresses are required to control both channels. With DALI Type 8, one DALI address is required to control both channels. Dimming down to 1% is attainable. Rated life (90% survivorship) of 50,000 hours at 50°C maximum ambient temperature. At maximum driver load, efficiency<84%, PF>0.9, THD<20%.

#### DD1

Factory-set adjustable output current LED driver with universal (120-277 VAC) input. Controlled via two individual 0-10V signals, one for setting light output down to a minimum of 1% and the other for adjusting the CCT (default range of 6500K-2700K). Rated life of 50,000 hours at 70°C maximum driver case temperature and 100% load conditions. Typical efficiency of 86%, PF>0.9, THD<20% at 100% load conditions.

#### LD2

Lutron DALI-2 digital drivers provide a high-performance tunable white solution with single-address digital control. Guaranteed performance and compatibility when used with Lutron DALI-2 controls.

### PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

### MOUNTING

Fixtures can be mounted directly to T-bar, drywall and hard surface ceilings, hardware supplied by others. Long runs require a minimum of 6" from the vertical wall.

### FINISH

**Interior:** 95%, reflective matte powder coated white paint

**Exterior:** Matte white, matte black, or aluminum powder coating. Custom finishes are also available.

### CONSTRUCTION

**Housing:** Extruded aluminum, up to 90% recycled content

**Interior brackets:** Die-formed cold rolled sheet steel

**Joining system:** Die-cast zinc

**Reflectors:** Die-formed cold rolled steel, 95% reflective matte white painted

**Lens:** Polycarbonate

**End caps:** Die-cast aluminum

### WEIGHT

**4':** 9.03 lbs - 4.1 kg

**8':** 18.28 lbs - 8.3 kg

**12':** 27.97 lbs - 12.7 kg

### CERTIFICATION

**ETL:** Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

### WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.

Wall controllers are covered by the manufacturer warranty.



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## DUO DMX SPECIFICATION

A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. **When placing the PO, please provide the contact information of your DMX integrator.**

Please answer the following questions to help us identify your DMX network requirements.

YES

Do you require a wall controller provided by Lumenwerx?

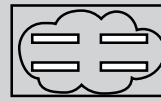
NO

DMX controller supplied by Lumenwerx

DMX control system supplied by others. Lumenwerx will supply DMX-enabled fixtures with default DMX addressing. See following pages for technical DMX informations. ✓

### How many zones do you have?

A zone consists of one or more luminaires behaving identically.



1 Zone



2 Zones

### How to calculate the required number of drivers:

per 4' fixture

**Driver**  
1x driver  
Direct only

per 4' fixture

**Driver Driver**  
2x driver  
Direct high output

To Calculate  
# of drivers

1 - 4 Zones

5 or more Zones

Do you have more than  
32 drivers in total?

NO

YES

Order a standard Lumenwerx wall controller.

#### WALL CONTROLLER

**WCW** - wall controller white  
**WCB** - wall controller black

Add the control code at the end of your order code.  
Please provide a fixture layout or RCP (Reflected Ceiling Plan) showing the locations of the DMX fixtures, zones and the DMX wall controller.  
Refer to your DMX integrator for the installation. ✓

Subject to factory evaluation. Please contact our controls specialist at [controls@lumenwerx.com](mailto:controls@lumenwerx.com). Additional cost and equipment will be required. ✓

Subject to factory evaluation and approval. Please contact our controls specialist at [controls@lumenwerx.com](mailto:controls@lumenwerx.com). Additional cost and equipment will be required. ✓



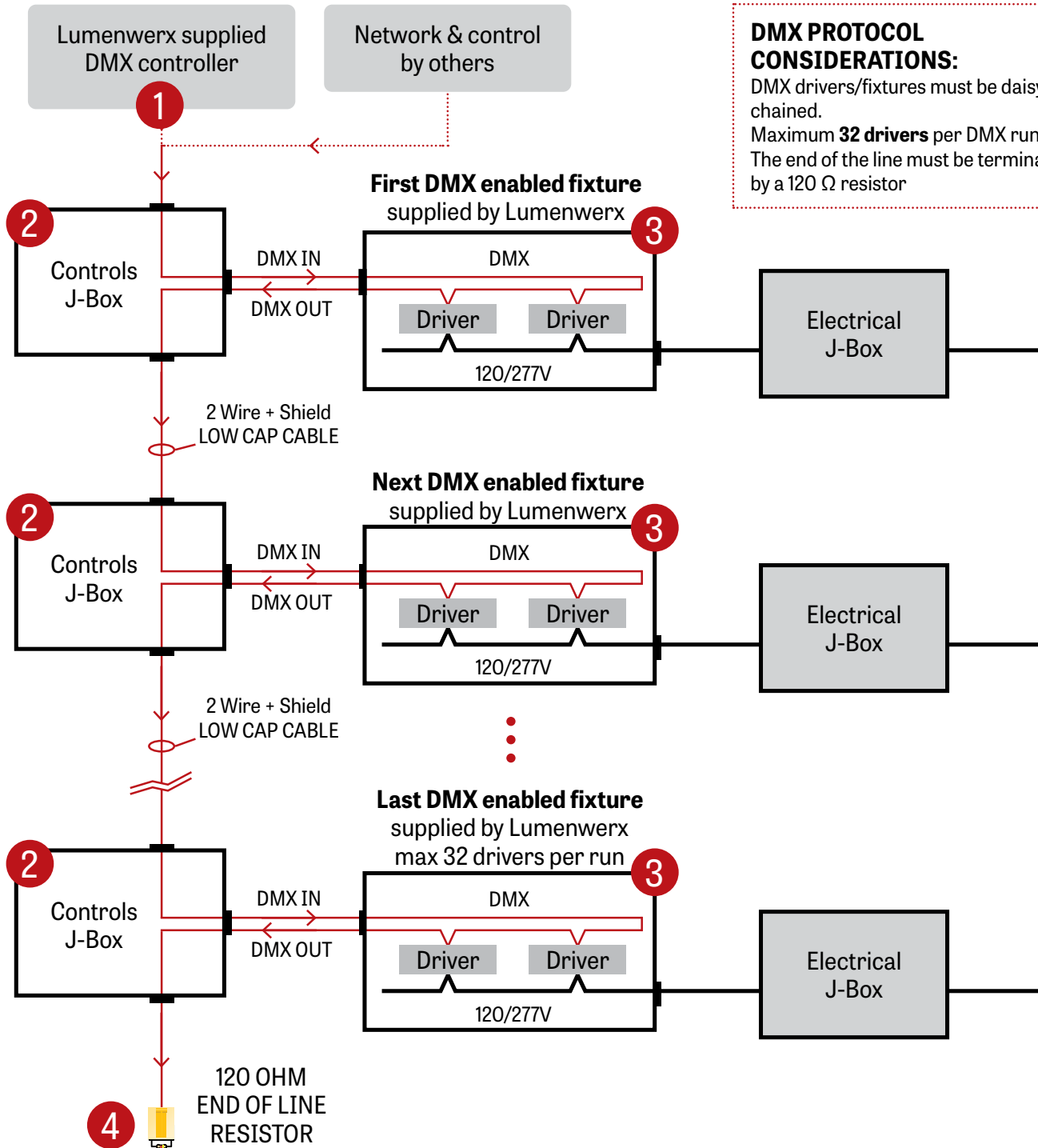
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## GENERIC DMX NETWORK ARCHITECTURE





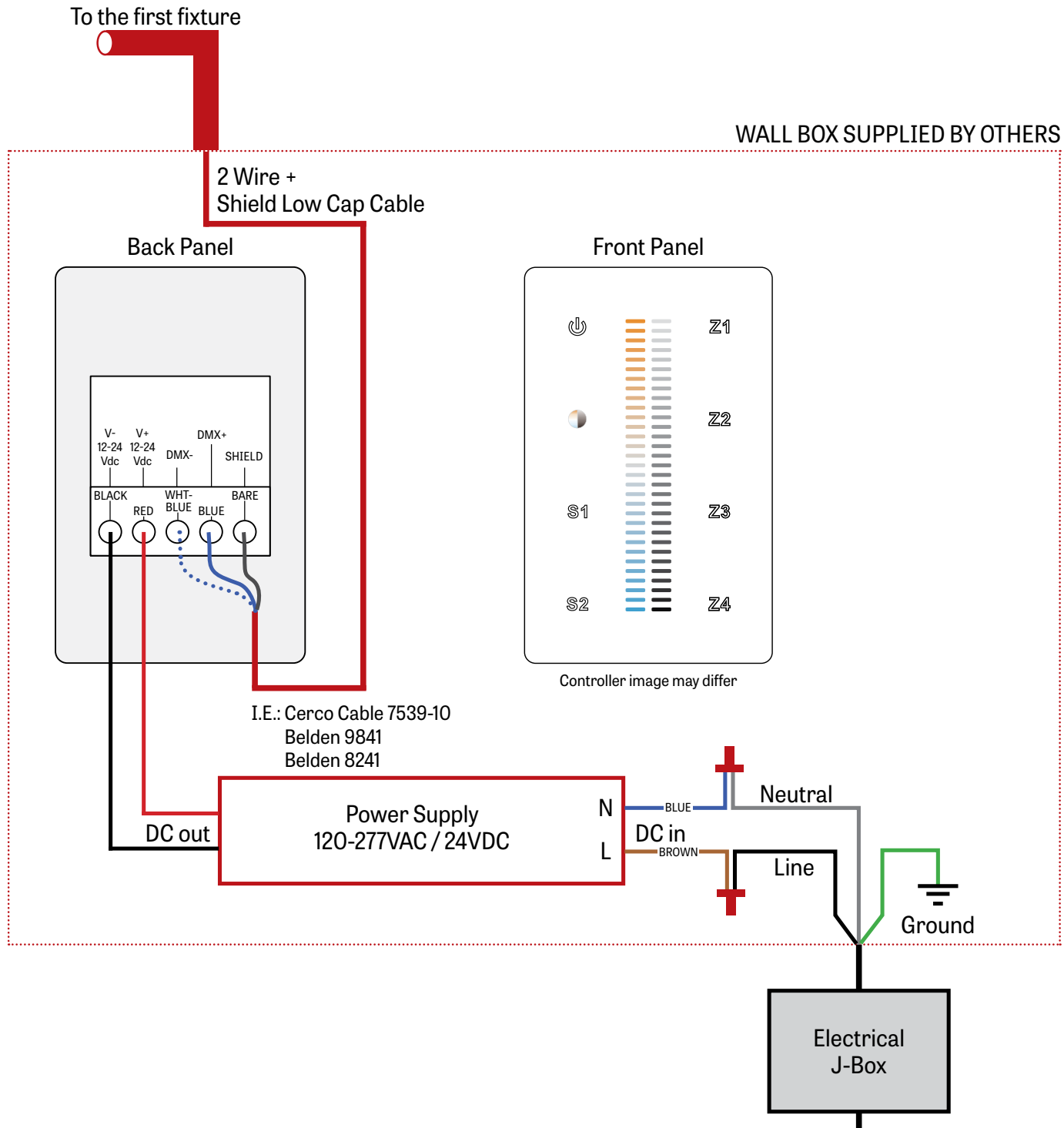
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## 1 LUMENWERX SUPPLIED DMX CONTROLLER





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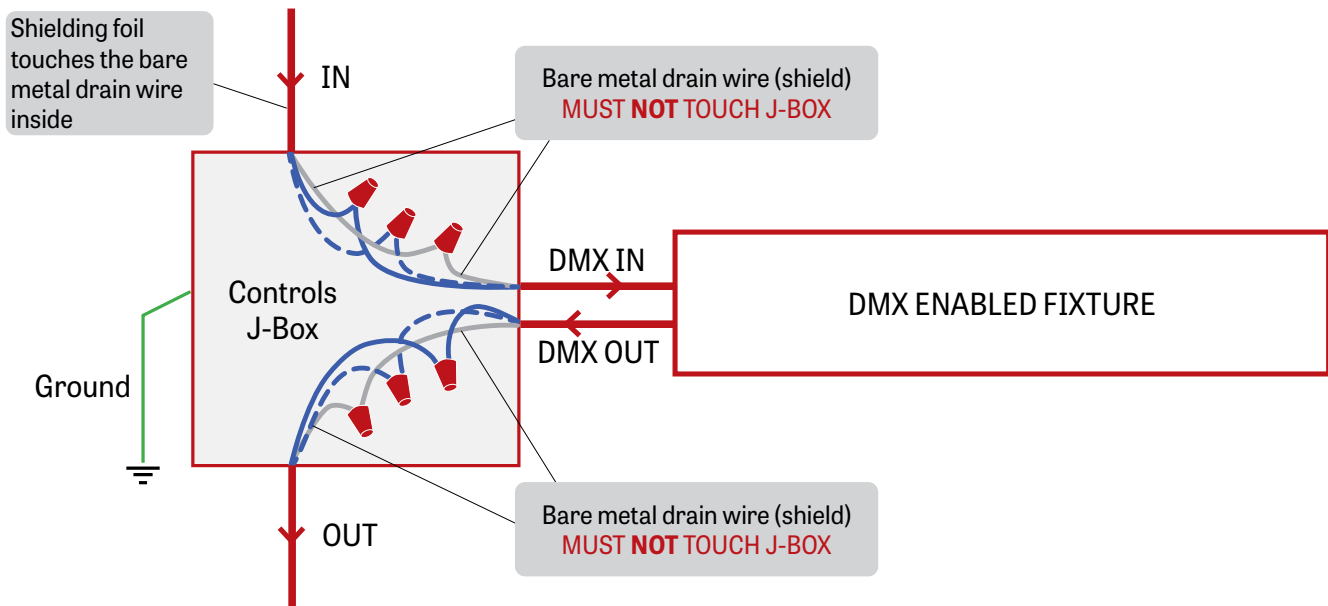


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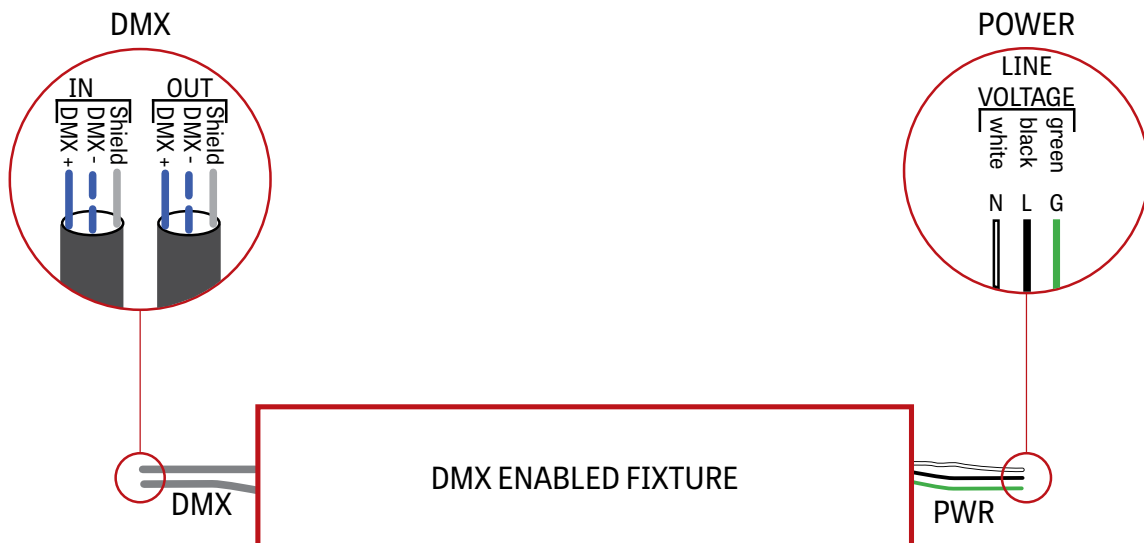
## 2 J-BOX DMX DAISY CHAIN DETAIL

### Low capacitance DMX Cable from Previous Fixture



### Low capacitance DMX cable to next fixture

## 3 DMX CONNECTION RECESSED & SURFACE





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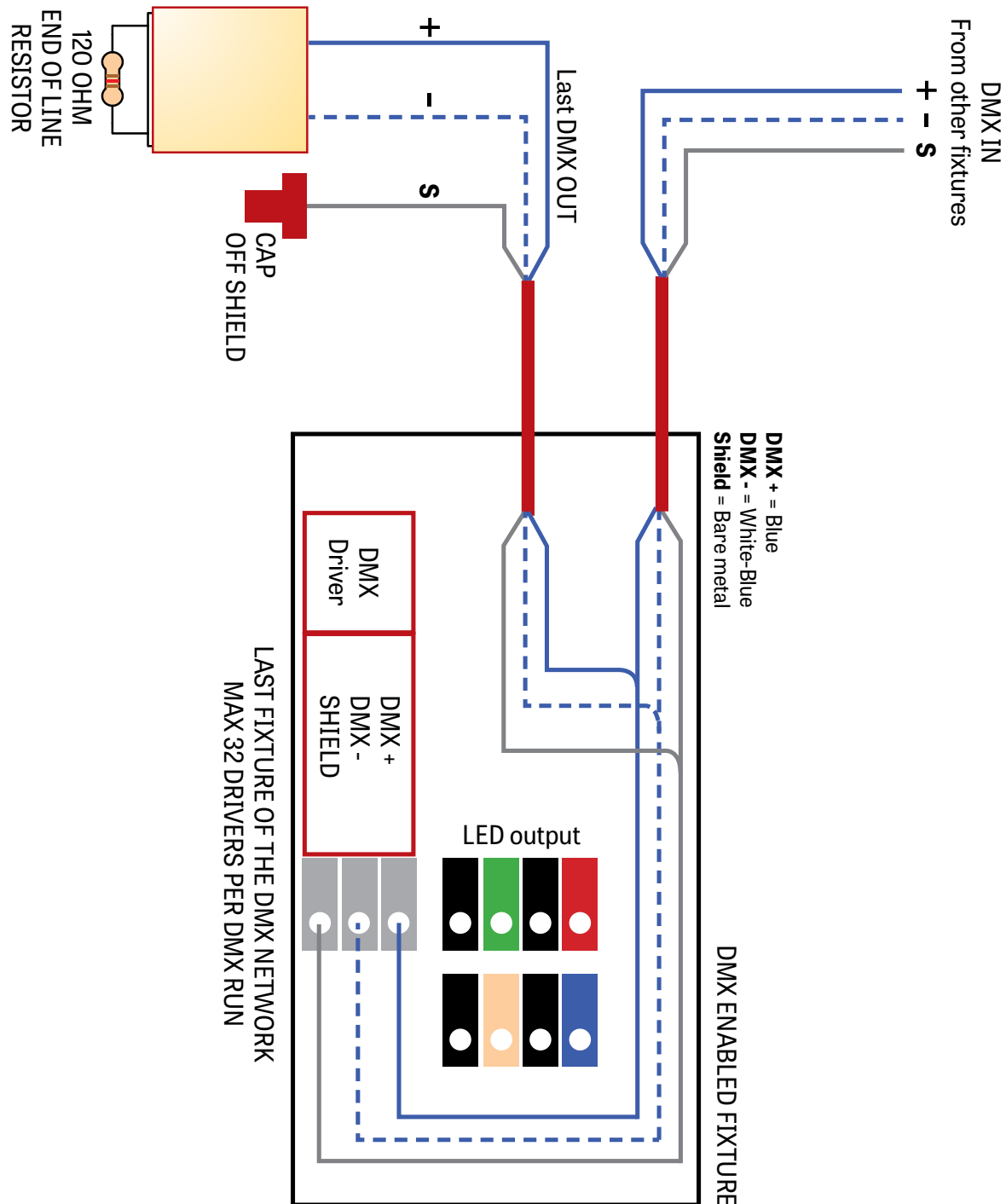


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4

## DMX LAST FIXTURE DETAIL





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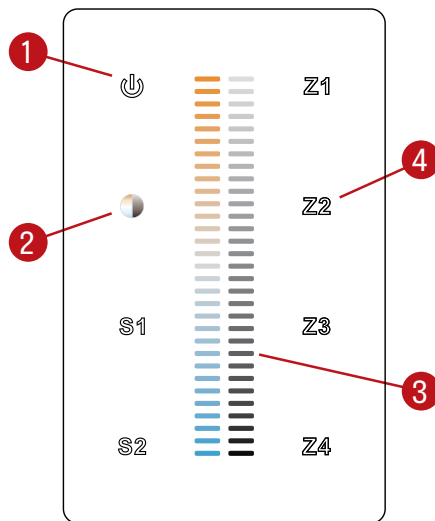


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## DMX WALL CONTROLLER

### DUO 1-4 ZONE



(1) Power:

Use this button to turn ON or OFF the fixture.

(2) Brightness/CCT:

Use the color/brightness toggle button to choose between color/brightness. When Blue: brightness is selected, when Yellow: color is selected.

(3) Slider:

Depending on the mode chosen in step 2, the slider will allow the user to set desired color or brightness.

(4) Zone select:

Up to 4 zones can be selected either independently or together. Once selected, the commands will be sent to the zone identified by a Blue LED.

### Default DMX Addresses:

1 Warm

2 Cool



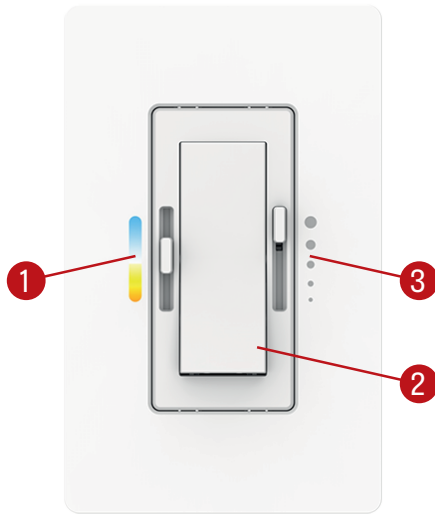
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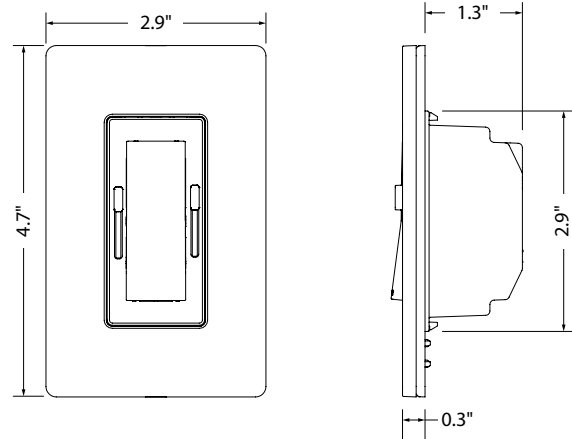
## DUAL 0-10V WALL CONTROLLER

### Front Panel



Controller image may differ

### Dimensions



- (1) CCT control: Use this button to adjust the color temperature.
- (2) On/Off switch: Use this button to turn ON or OFF the fixture.
- (3) Dimming control: Use this button to adjust the brightness.

### Wiring Diagram

