VIA 2 PEAK CANDELA

RECESSED
CHROMAWERX - SOLA, DUO

Lumenwerx

IC RATED

5 YEAR WARRANTY

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 [1]		CRI
VIA2PCR	**D**				
VIA2PCR - Via 2" Peak Candela Recessed	**D** - Direct	**PCO40** - Peak Candela Optic, 40° beam **PCO60** - Peak Candela Optic, 60° beam	**SOLA** - Dim-to-warm single channel control 35K to 22K **DUO** - Tunable white 2-channel control 65K to 27K [1] Static white also available. Consult other spec sheet.		**80CRI** - 80+ CRI **90CRI** - 90+ CRI

LUMEN PACKAGE	LUMINAIRE LENGTH	VOLTAGE	DRIVER [3]

350LMF - Low output 350 lm/ft
500LMF - Medium output 500 lm/ft
750LMF - High output 750 lm/ft
1000LMF - Ultra high output 1000 lm/ft
	#FT#IN [2] - Specify nominal length (#) in 1' and/or 1" increments
	
	Standard nominal lengths:
	Single units: 2' to 12'
	Continuous runs: lengths over 12'
	
	[2] • 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.
		120V - 120V
		277V - 277V
		UNV - 120V-277V
			<u>SOLA</u>
			SD1 - Single 0-10V input
			
			<u>DUO</u>
			DMX [4, 5] - DMX
			DDA [5] - DALI DT6
			DDA8 [5] - DALI DT8
			DD1 - Dual 0-10V input for CCT/intensity
			LD2 [5] - Lutron DALI-2 digital
			
			[3] PoE (Power-over-Ethernet) compatible. Consult factory for details.
			[4] For more information, see pages 8 to 13.
			[5] On-site commissioning is required.

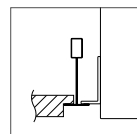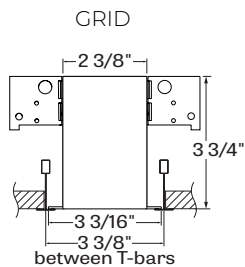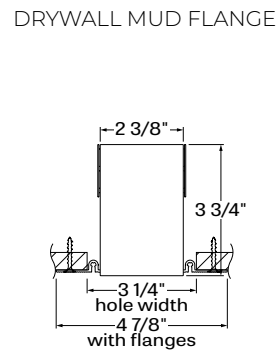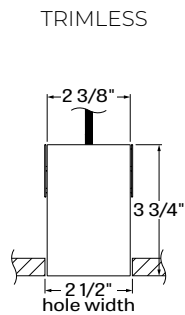| ELECTRICAL	MOUNTING [6]	FINISH	OPTIONS [8]
1C			
1C - 1 circuit	**TG9** - Tegular 9/16" **TG15** - Tegular 15/16" **TB9** - T-bar 9/16" **TB15** - T-bar 15/16" **ST** - Screw slot T-bar **DTR** - Trim **DTL** - Trimless **DMF** - Drywall mud flange **MFM** [7] - Multiple flange mounting [6] Transition mounting options also available (e.g. Recessed to Pendant/Surface), consult factory for details. [7] See page 4 for details.	**W** - Matte white **B** - Matte black **CF#** - Custom finish, specify RAL#	**FU120** - Fuse 120V **FU277** - Fuse 277V **FWC** - Flexible whip cable (6' std) **CP** - Chicago Plenum **NA** - None [8] Separate codes with a "+" if more than one is specified.

Accessories
Optional, order separately

WALL CONTROLLER [9]	
DMX	**DD1**
WCW##FT [10] - DMX wall controller white **WCB##FT** [10] - DMX wall controller black	**TWCW##FT** [11] - Dual 0-10V wall controller white **TWCB##FT** [11] - Dual 0-10V wall controller black

[9] Specify wire length (##) in feet.
[10] Available with DMX only. For more information, see pages 8 to 13, or consult factory.
[11] Available with DD1 only. For more information, see page 14, or consult factory.

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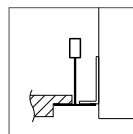
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Dimensions
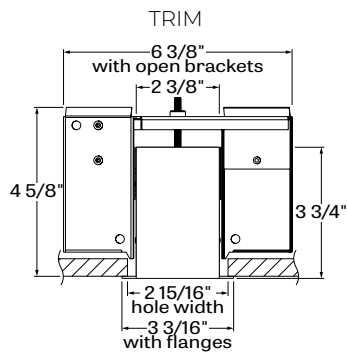
TRIM

6 3/8"
with open brackets
2 3/8"
4 5/8"
3 3/4"
2 15/16"
hole width
3 3/16"
with flanges

TRIMLESS

2 3/8"
3 3/4"
2 1/2"
hole width

DRYWALL MUD FLANGE

2 3/8"
3 3/4"
3 1/4"
hole width
4 7/8"
with flanges

GRID

2 3/8"
3 3/4"
3 3/16"
3 3/8"
between T-bars
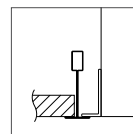
TG9
Tegular 9/16"

TG15
Tegular 15/16"

TB9
T-bar 9/16"

TB15
T-bar 15/16"

ST
Screw slot T-bar

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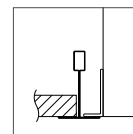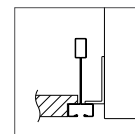
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Multiple Flange Mounting Details

Multiple flange mounting can be specified when a fixture run needs to have a multiple flange recessed mounting detail.
A drawing is required to clearly illustrate the application.

CEILING CONDITION EXAMPLES (consult factory for project specific ceiling conditions)

DRYWALL/GRID
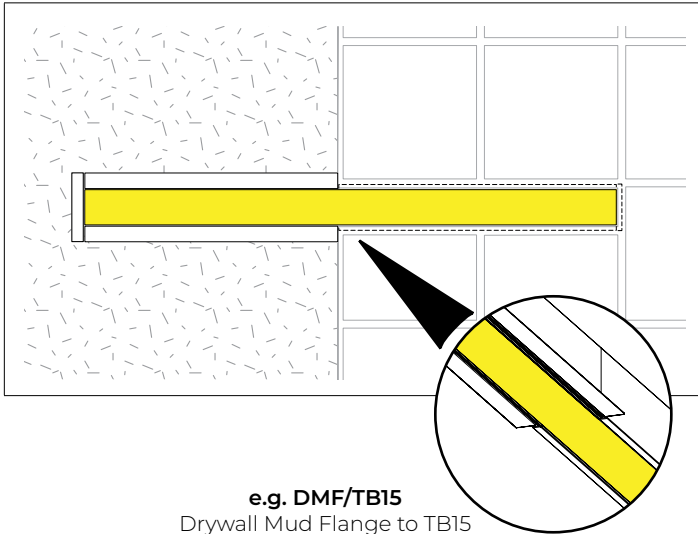
e.g. DMF/TB15
Drywall Mud Flange to TB15

DRYWALL/WOOD
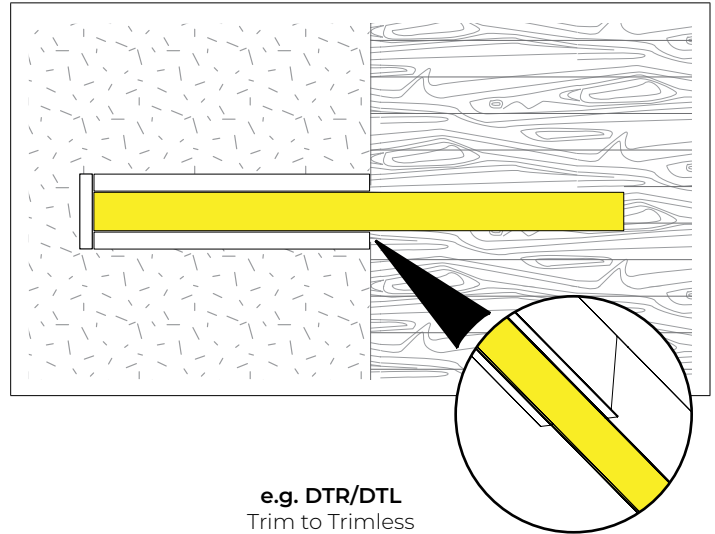
e.g. DTR/DTL
Trim to Trimless

DRYWALL/GRID
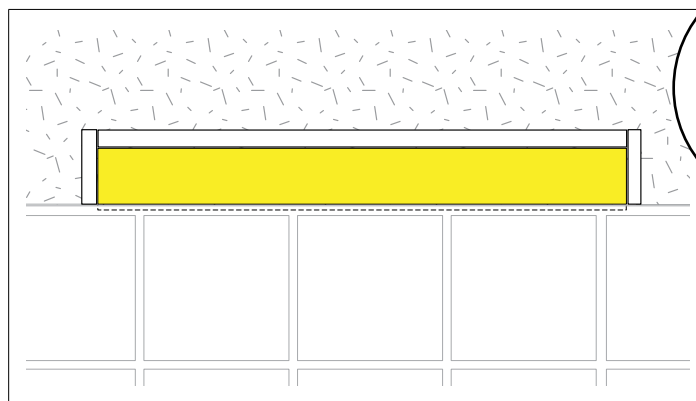
e.g. 1TG9/3DTR
1 long side TG9 and other
3 sides DTR

All drawings are for illustrative purposes only.

TRANSITION MOUNTING OPTIONS (consult factory for details)

Mounting condition alters along the run of the fixture.

Recessed to Pendant

Surface to Pendant

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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

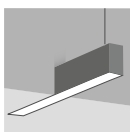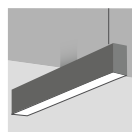| LM/FT	W/FT	LM/W
350	2.4	144
500	3.5	141
750	5.4	139
1000	7.4	136
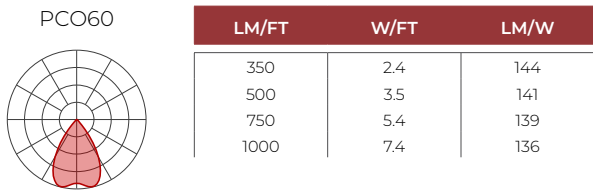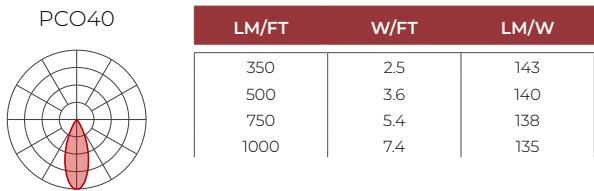
MULTIPLIER TABLES

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

SOLA

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

DUO

CCT	WATTS 80+ CRI / 90+ CRI	LPW 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.

ANSI C78.377-2015
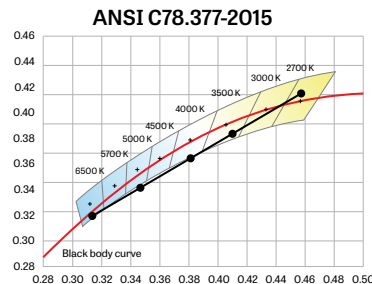
LUMINAIRE LENGTH

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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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
Recessed fixtures can be mounted into exposed or concealed T-bar or tegular ceiling, as well as in ceilings with trim, trimless, or mud flange options.

FINISH
Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white or matte black 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
Recessed flanges: Extruded aluminum, up to 90% recycled content
Mud flange: Extruded aluminum, up to 90% recycled content
Slip-through bracket: Die-formed galvanized sheet
End plate: Die-formed cold rolled sheet steel

WEIGHT
4': 9.03 lbs - 4.1 kg
8': 18.28 lbs - 8.3 kg
12': 27.97 lbs - 12.7 kg

CERTIFICATIONS
ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Chicago Plenum: City of Chicago Approved (CCEA) when specified with CP option.
IC rated: Suitable for direct contact with insulation

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.

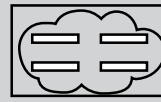YES ········· Do you require a wall controller provided by Lumenwerx? ········· NO ········· DMX control system supplied by others. Lumenwerx will supply DMX-enabled fixtures with default DMX addressing.
See following pages for technical DMX informations. ✓

DMX controller supplied by Lumenwerx

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	per 4' fixture
Driver	**Driver** **Driver**
1x driver	2x driver
Direct only	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 ans approval. Please contact our controls specialist at controls@lumenwerx.com Additional cost and equipment will be required. ✓

Subject to factory evaluation. Please contact our controls specialist at controls@lumenwerx.com Additional cost and equipment will be required. ✓

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GENERIC DMX NETWORK ARCHITECTURE

Lumenwerx supplied DMX controller ①

Network & control by others

DMX PROTOCOL CONSIDERATIONS:
DMX drivers/fixtures must be daisy chained.
Maximum **32 drivers** per DMX run.
The end of the line must be terminated by a 120 Ω resistor

② **Controls J-Box**

First DMX enabled fixture
supplied by Lumenwerx ③

DMX IN
DMX OUT
DMX
Driver   Driver
120/277V

Electrical J-Box

2 Wire + Shield
LOW CAP CABLE

② **Controls J-Box**

Next DMX enabled fixture
supplied by Lumenwerx ③

DMX IN
DMX OUT
DMX
Driver   Driver
120/277V

Electrical J-Box

2 Wire + Shield
LOW CAP CABLE

② **Controls J-Box**

Last DMX enabled fixture
supplied by Lumenwerx
max 32 drivers per run ③

DMX IN
DMX OUT
DMX
Driver   Driver
120/277V

Electrical J-Box

④ **120 OHM END OF LINE RESISTOR**

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1   LUMENWERX SUPPLIED DMX CONTROLLER

To the first fixture

WALL BOX SUPPLIED BY OTHERS

2 Wire +
Shield Low Cap Cable

Back Panel

Front Panel

V-
12-24
Vdc

V+
12-24
Vdc

DMX-

DMX+

SHIELD

BLACK

RED

WHT-BLUE

BLUE

BARE

⏻   Z1

S1   Z3

S2   Z4

Z2

Controller image may differ

I.E.: Cerco Cable 7539-10
      Belden 9841
      Belden 8241

DC out

Power Supply
120-277VAC / 24VDC

N   BLUE   Neutral

L   DC in   BROWN   Line

Ground

Electrical
J-Box

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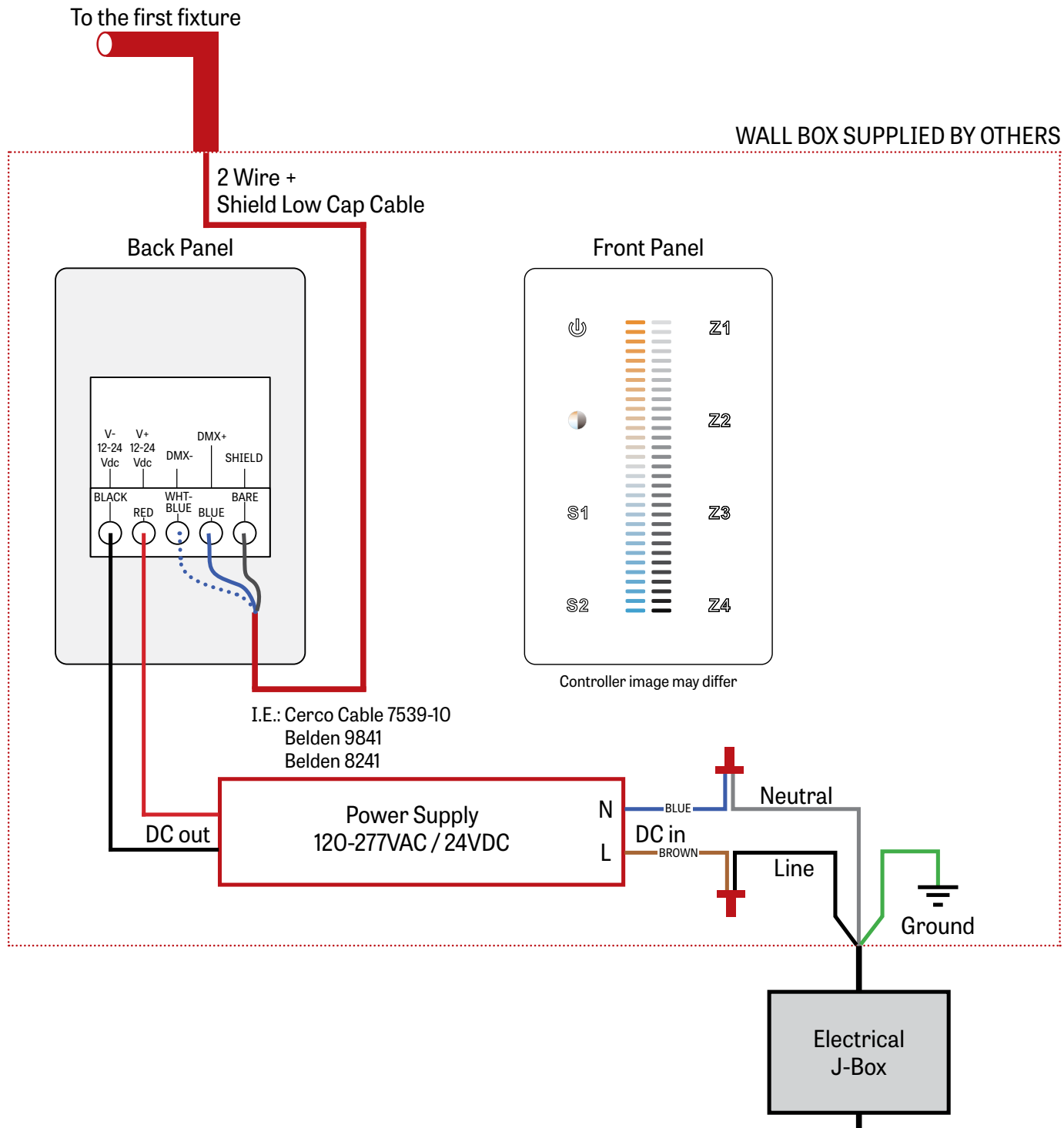
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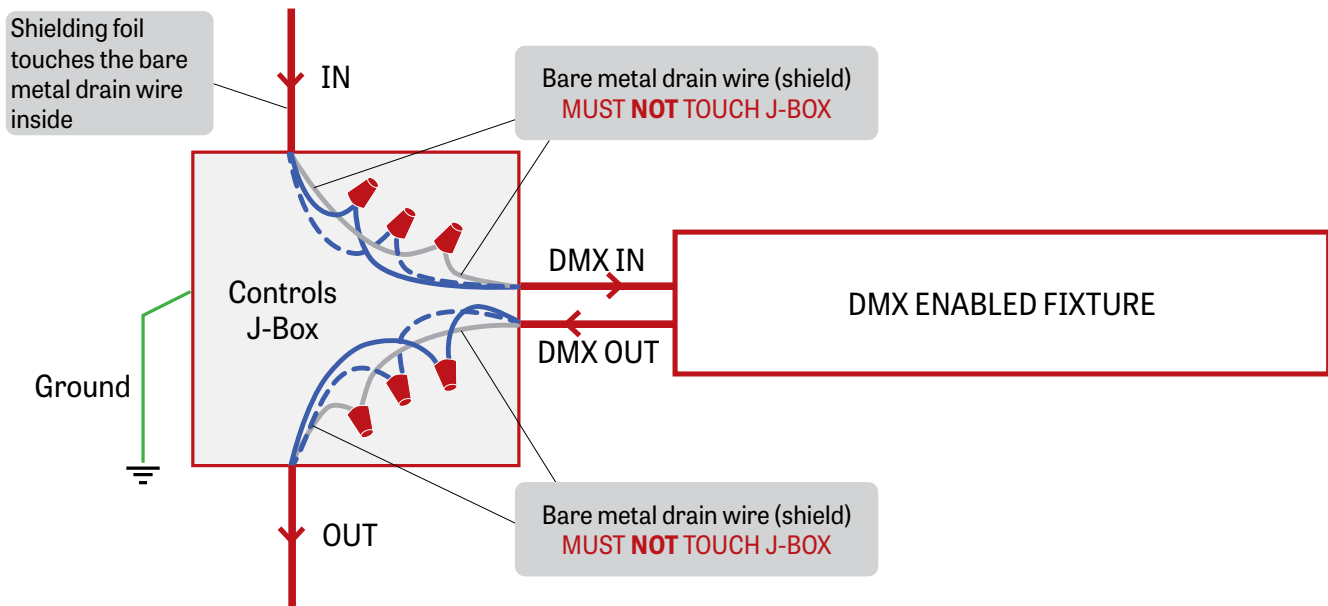**2** J-BOX DMX DAISY CHAIN DETAIL

Low capacitance DMX Cable from Previous Fixture

Shielding foil touches the bare metal drain wire inside

IN

Bare metal drain wire (shield) MUST **NOT** TOUCH J-BOX

DMX IN

Controls J-Box

DMX ENABLED FIXTURE

Ground

DMX OUT

Bare metal drain wire (shield) MUST **NOT** TOUCH J-BOX

OUT

Low capacitance DMX cable to next fixture

---

3 DMX CONNECTION RECESSED & SURFACE

DMX

IN OUT

Shield | DMX- | DMX+   Shield | DMX- | DMX+

POWER

LINE VOLTAGE

white | black | green

N L G

DMX ENABLED FIXTURE

DMX

PWR

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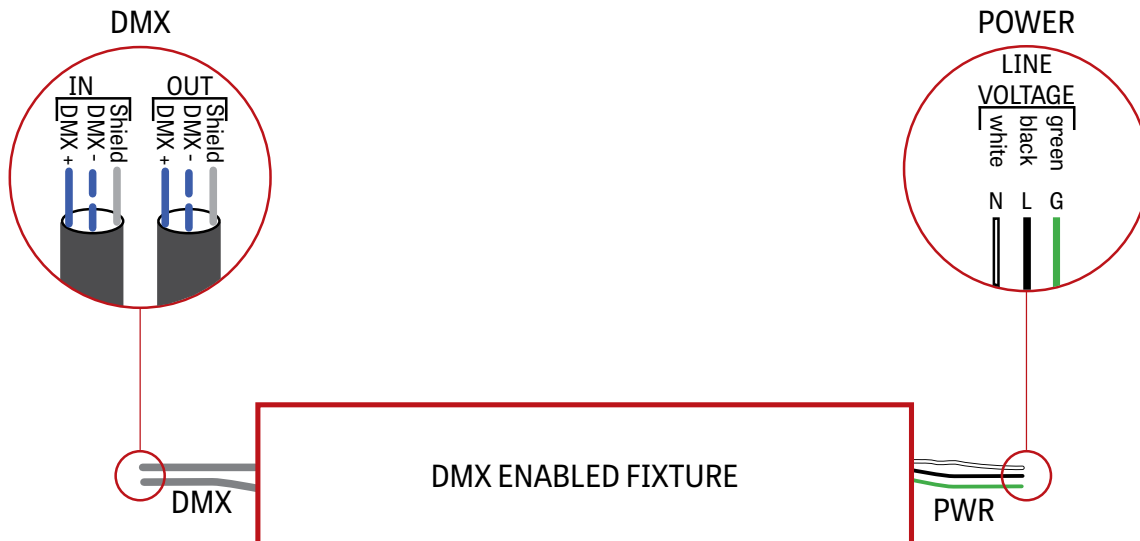
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4 DMX LAST FIXTURE DETAIL

120 OHM
END OF LINE
RESISTOR

+

−

Last DMX OUT

S

CAP
OFF SHIELD

DMX IN
From other fixtures

+

−

S

DMX + = Blue
DMX − = White-Blue
Shield = Bare metal

DMX
Driver

DMX +
DMX −
SHIELD

LAST FIXTURE OF THE DMX NETWORK
MAX 32 DRIVERS PER DMX RUN

LED output

DMX ENABLED FIXTURE

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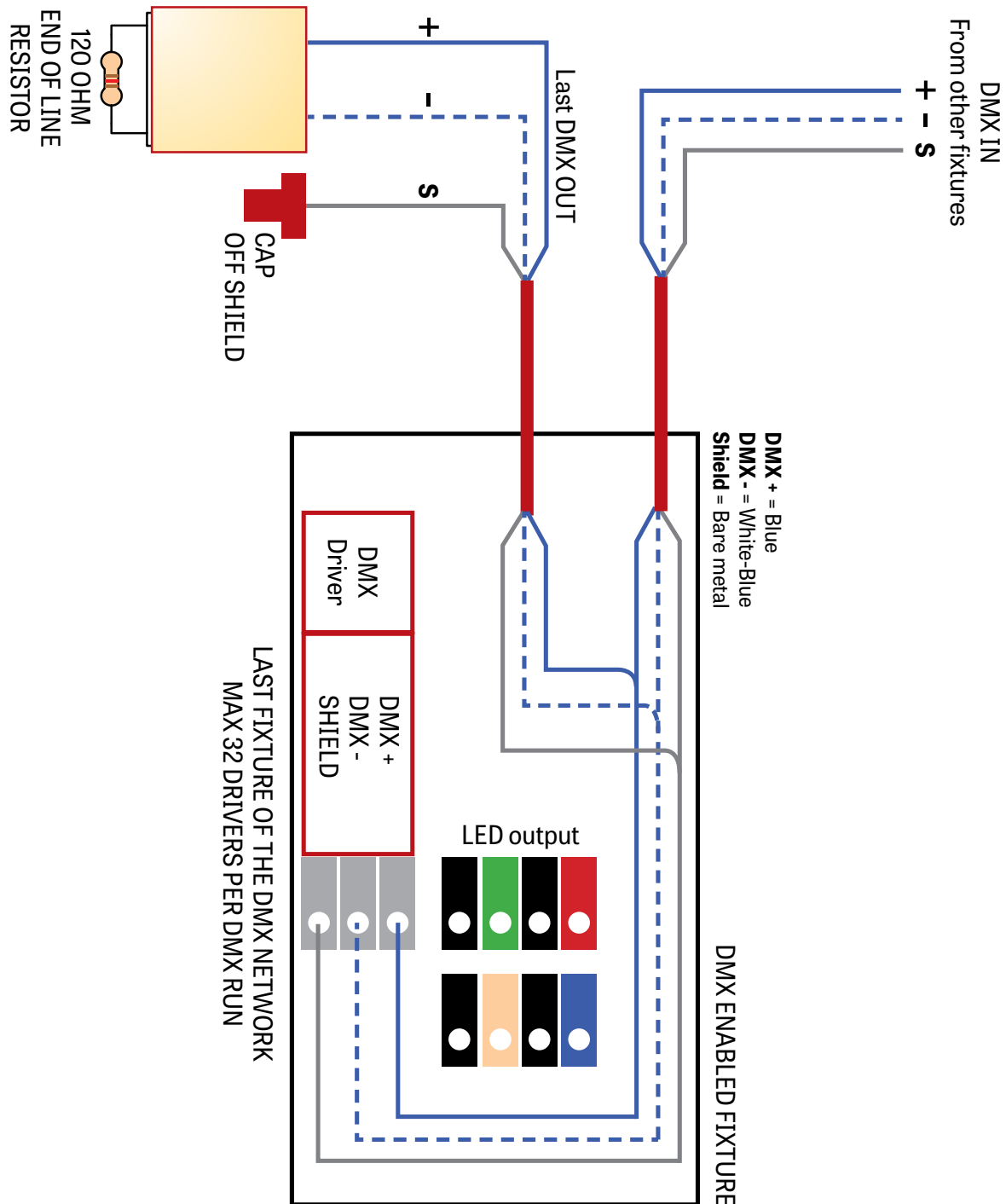
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DMX WALL CONTROLLER

DUO 1-4 ZONE

Default DMX Addresses:
1 Warm
2 Cool
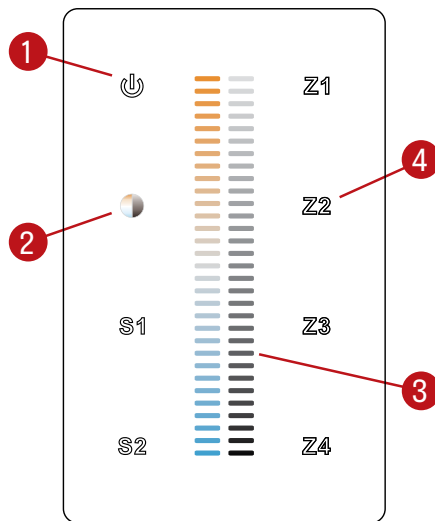
(1) Power: Use this button to turn ON or OFF the fixture.

(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.
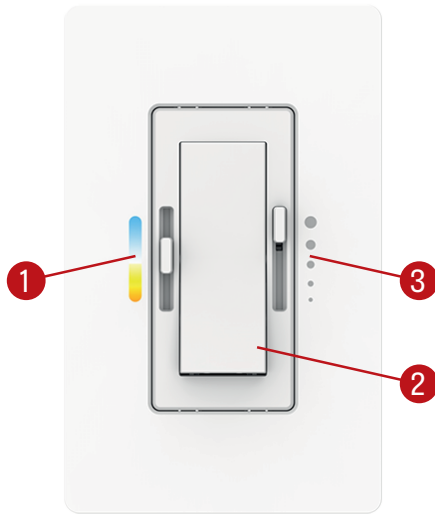
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DUAL 0-10V WALL CONTROLLER

Front Panel

Controller image may differ

Dimensions

2.9"

4.7"

1.3"

2.9"

0.3"
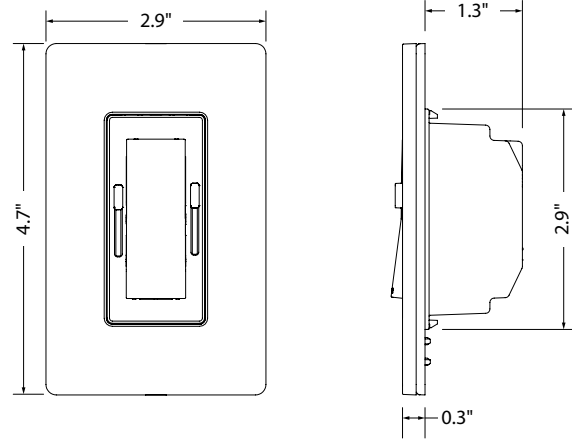
(1) CCT control: Use this button to adjust the color temperature.

(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

Ground — Green

0-10V Ch 1 (TW Control) +

0-10V Ch 2 (Intensity) +

Yellow
Brown
Purple
Gray

Line / Hot — Black

Wall Switch (In-Wall Dimmer)

Red

120 V~ 50/60 Hz

White

Neutral

* 2 Channel LED Driver / Controller

- +   - +

-
+

Tunable White LED's

ETL LISTED
c us
Intertek

VIA2-PEAK-CANDELA-TW-RECESSED-SPEC-REV0   September 16, 2025