

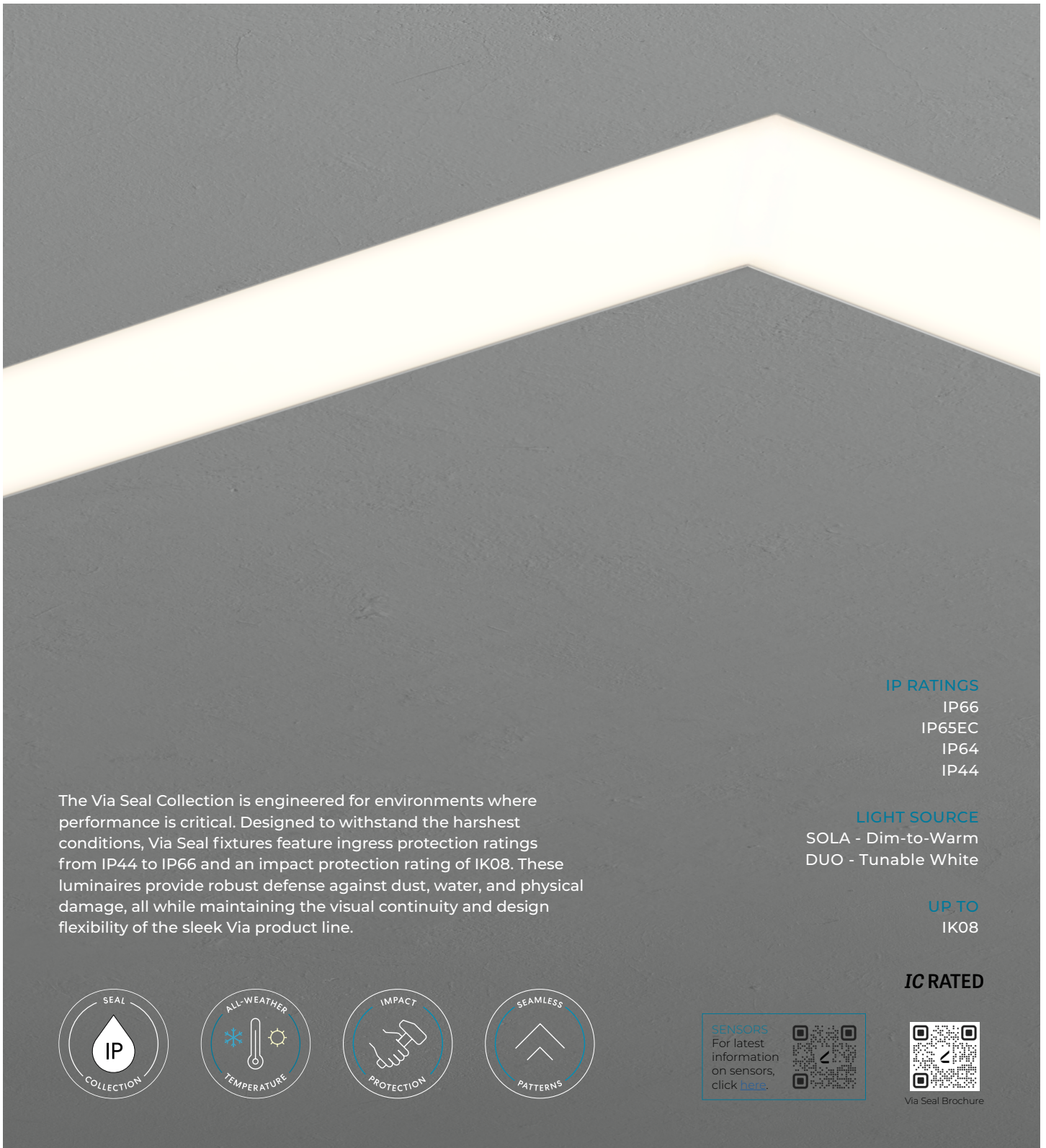
VIA 2 SEAL

RECESSED PATTERN

CHROMAWERX - SOLA, DUO

SEALWERX SERIES

 **Lumenwerx**



The Via Seal Collection is engineered for environments where performance is critical. Designed to withstand the harshest conditions, Via Seal fixtures feature ingress protection ratings from IP44 to IP66 and an impact protection rating of IK08. These luminaires provide robust defense against dust, water, and physical damage, all while maintaining the visual continuity and design flexibility of the sleek Via product line.

IP RATINGS

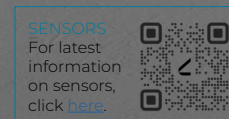
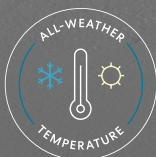
IP66
IP65EC
IP64
IP44

LIGHT SOURCE

SOLA - Dim-to-Warm
DUO - Tunable White

UP TO
IK08

IC RATED



Via Seal Brochure

VIA 2 SEAL

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CHROMAWERX - SOLA, DUO

SEALWERX SERIES



Project: _____
Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	ENVIRONMENT ¹	OPTIC	LIGHT SOURCE ³	CRI
V2SEALRPAT	D				
V2SEALRPAT - Via 2" Seal Recessed Pattern	D - Direct	IP66 - IP66-Rated IP65EC - IP65-Rated Electrical Components IP64 - IP64-Rated IP44 ² - IP44-Rated ¹ See page 5 for more information on the features and installation details for each environment option. ² Fixture must be installed with direct lens facing down.	EPDO - Environmentally Protected Direct Optic ASDO - Asymmetric Soft Direct Optic	SOLA - Dim-to-warm single channel control 35K to 22K DUO - Tunable white 2-channel control 65K to 27K ³ Static white and BIOS also available. Consult factory for RGBW.	80CRI - 80+ CRI 90CRI - 90+ CRI

LUMEN PACKAGE	PATTERN LENGTH	CORNER TYPE ⁵	VOLTAGE
350LMF - Low output 350 lm/ft 500LMF - Medium output 500 lm/ft 750LMF - High output 750 lm/ft	##FT##IN(##FT##IN-##FT##IN-...) ⁴ - ##FT##IN : total nominal length of pattern in feet and/or inches ##X : quantity of each section ##FT##IN : nominal length of each section in feet and/or inches Continuous runs: lengths over 12' ⁴ - Minimum 2'; - Minimum 4' for DMX.	#LEV2C(A##) - 2-way leveled corner #INN2C(A90) ^{6,7} - 2-way inner corner ⁵ Specify quantity (#) and angle (A##) for each required corner type. If more than one option is specified, separate codes with a "+", e.g. 1LEV2C(A60)+2INN2C(A90). ⁶ Only available with 90°. ⁷ Only available with IP65EC environment option. ⁸ Minimum angle is 45°.	ANGLE (A##): (A90) - 90° (A##) ⁸ - Custom 120V - 120V 277V - 277V UNV - 120V-277V

DRIVER ⁹	ELECTRICAL	POWER FEED	MOUNTING	FINISH	OPTIONS ¹²
1C					
SOLA SDI - Single 0-10V input DUO DMX ^{10,11} - DMX DDA ¹¹ - DALI DT6 DDA8 ¹¹ - DALI DT8 DD1 - Dual 0-10V input for CCT/intensity LD2 ¹¹ - Lutron DALI-2 digital ⁹ See page 5 for driver temperature ranges. ¹⁰ For more information, see pages 10 to 15. ¹¹ On-site commissioning is required.	1C - 1 circuit	TF - Top feed EF - End feed	TC9 - Regular 9/16" TC15 - Regular 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	W - Matte white AL - Aluminum B - Matte black WA - White antimicrobial Silverwerx CF# - Custom finish, specify RAL#	<u>Protective finish options</u> ¹³ CRF - Corrosion-resistant finish NATA - Natatorium finish MAR - Marine finish Gasketed options GCK ¹⁴ - Grid gasket TRGK ¹⁵ - Trim gasket NA - None ¹² If more than one option is specified, separate codes with a "+", e.g. CRF+GCK. ¹³ Only available with IP66 and IP65EC environment option. ¹⁴ Only available with grid mounting options. ¹⁵ Only available with DTR mounting options.

Accessories

Optional, order separately

WALL CONTROLLER ¹⁶	
DMX	DD1
WCW##FT ¹⁷ - DMX wall controller white WCB##FT ¹⁷ - DMX wall controller black	TWCW##FT ^{18,19} - Dual 0-10V wall controller white TWCB##FT ^{18,19} - Dual 0-10V wall controller black
¹⁶ Specify wire length (##) in feet. ¹⁷ Available with DMX only. For more information, see pages 10 to 15, or consult factory. ¹⁸ Available with DD1 only. For more information, see page 16, or consult factory. ¹⁹ Only available with 120V.	

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CHROMAWERX - SOLA, DUO

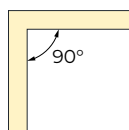
SEALWERX SERIES



Pattern Layout

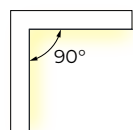
CORNER TYPES

LEVELED CORNER



1LEV2C(A90)

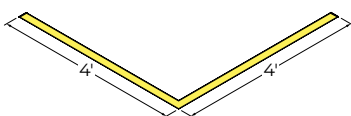
INNER CORNER



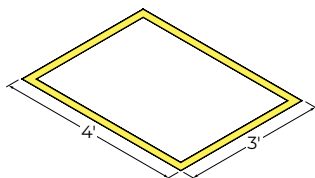
1INN2C(A90)

2-way

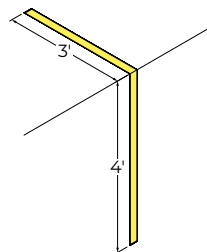
EXAMPLES



8FT(2X4FT)-1LEV2C(A90)



14FT(2X4FT-2X3FT)-4LEV2C(A90)



7FT(1X3FT-1X4FT)-1INN2C(A90)

VIA 2 SEAL

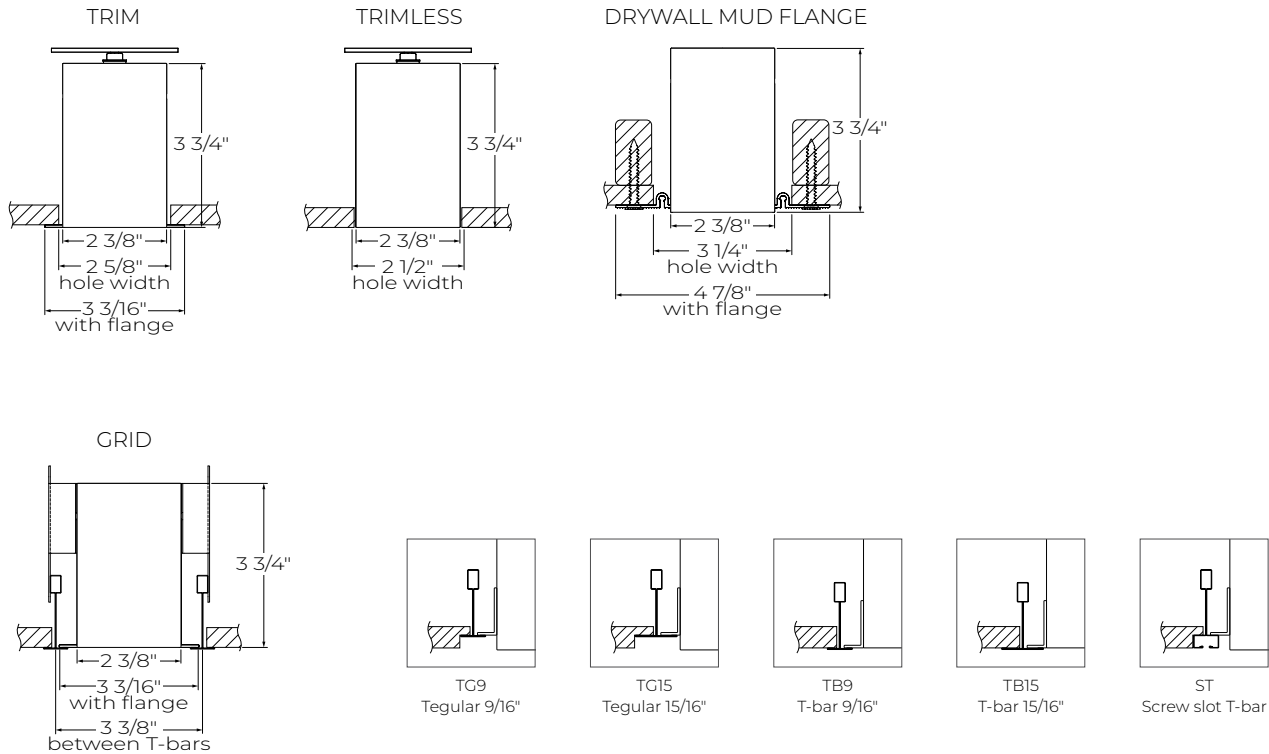
RECESSED PATTERN

CHROMAWERX - SOLA, DUO

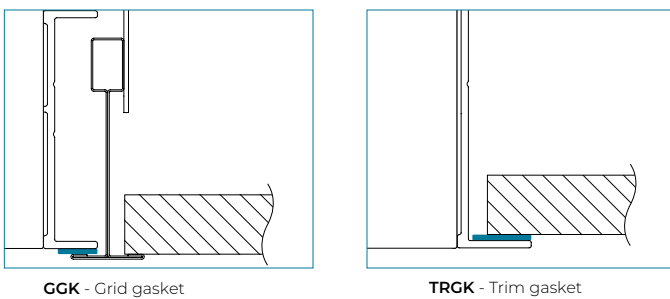


SEALWERX SERIES

Dimensions



GASKETED OPTIONS



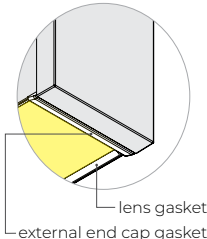
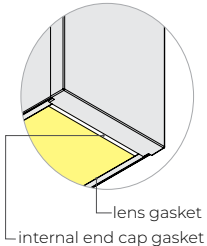
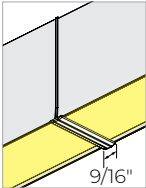
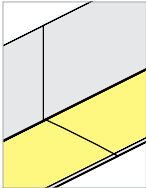
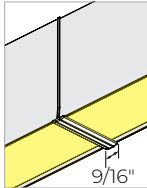
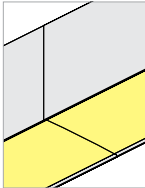
VIA 2 SEAL

RECESSED PATTERN
CHROMAWERX - SOLA, DUO



SEALWERX SERIES

Environment Options

Direct							
IP66		IP65EC Electrical Components		IP64		IP44	
Dust tight	High water resistance	Dust tight	Moderate water resistance	Dust tight	Water splash resistance	Particles larger than 1mm protected	Water splash resistance
OUTDOOR							
Directly exposed to the elements		Moderate exposure to the elements		Under canopy, slightly exposed		Under canopy, not exposed	
INDOOR							
Wipe down application Healthcare application Cleanroom application		Wipe down application Healthcare application					
							
External joiner gasket every 12'		Continuous line of light over 12'		External joiner gasket every 12'		Continuous line of light over 12'	
							
Driver: in a sealed enclosure Electrical connections: water and dust proof							
LED boards: conformal coated for maximum protection							
Protective finish options: Corrosion-resistant, Natatorium and Marine							

Ambient Temperature Range based on driver selection

	LD2	SD1 / DMX / DDA / DDA8	DD1
Minimum temperature:	0 °C / 32 °F	-20 °C / -4 °F	-25 °C / -13 °F
Maximum temperature:		40 °C / 104 °F	

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CHROMAWERX - SOLA, DUO

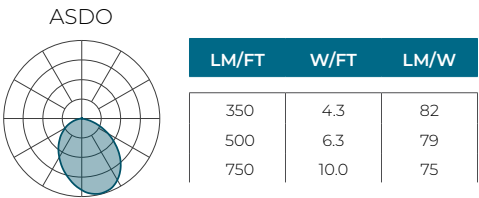
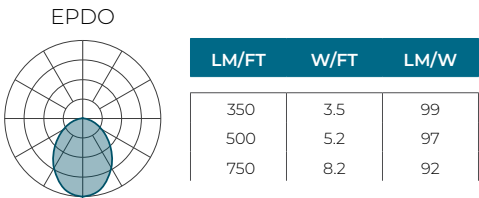
SEALWERX SERIES



Photometrics

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

DIRECT



MULTIPLIERS

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	1.05	0.95
6500K	1.00	1.00

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CHROMAWERX - SOLA, DUO

SEALWERX SERIES



Technical Specifications

OPTICS

Environmentally Protected Direct Optic (EPDO)

The Environmentally Protected Direct Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. This extruded snap-in lens has a gasket to ensure proper sealing. The lens is 1/16" thick and made of frosted polycarbonate. Internally, white, side kicking reflectors guide the light through the lens. The EPDO suits moderate climate environments.

Asymmetric Soft Direct Optic (ASDO)

The Asymmetric Soft Direct Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. This extruded snap-in lens has a gasket to ensure proper sealing. The lens is 1/16" thick and made of frosted polycarbonate. Internally, white, side kicking reflectors specifically angled to guide the light through the lens to create a nice asymmetric distribution. The ASDO suits moderate climate environments.

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.

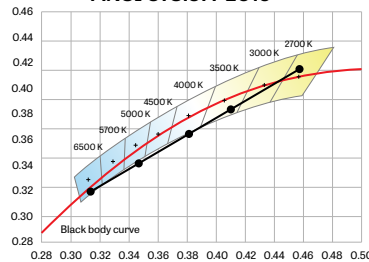
Chromawerx SOLA

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



WELL BUILDING STANDARD



WELL for Light: The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 54 or L03 when DUO is selected
- Feature 58 or L07 when 90+ CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5% or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.

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CHROMAWERX - SOLA, DUO



SEALWERX SERIES



WELL for Mind: This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information, please contact well@lumenwerx.com

PATTERN LENGTH

Via 2 Seal can be ordered in 1' and/or 1" increments. Continuous runs are available for run lengths over 12'. The minimum length is 2'. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx joiner kits 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.

TEMPERATURE VARIATION PROTECTION

Fixtures with the IP66-Rated, IP65-Rated Electrical Components and IP64-Rated environment options feature an integrated pressure equalization and moisture control GORE® protective vent. It allows air to flow while blocking water, dust, and contaminants. It also reduces internal condensation, supports thermal stability, and preserves the fixture's sealed performance over time.



Location may vary.

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%.

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: Powder-coat paint in matte white, matte black, or aluminum. Custom finishes are also available. Optional antimicrobial finish.

FINISH OPTIONS

Corrosion-resistant: General protection from moisture, humidity, cleaners, and mild chemicals

Natatorium: Protection from chlorine vapour, high humidity, and condensation

Marine: Protection from salt spray, air, and UV

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CHROMAWERX - SOLA, DUO



SEALWERX SERIES

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content

Interior brackets: Die-formed cold rolled sheet steel

Gaskets: Closed-cell silicone foam

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

Recessed flanges: Extruded aluminum, up to 90% recycled content

Mud flange: Extruded aluminum, up to 90% recycled content

End cap: Die-cast aluminum

Mounting bracket: Aluminum bracket with stainless steel PEM studs and sealing washers

CERTIFICATIONS

ETL: IP44-Rated environment option is rated for dry/damp locations. IP66-Rated, IP65-Rated Electrical Components and IP64-Rated environment options are ETL Wet Listed. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0. During the installation of Wet Listed fixtures, the contractor is responsible for properly sealing all mounting and electrical connection points.

IC rated: Suitable for direct contact with insulation

IK08: Impact resistance rated to IK08

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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CHROMAWERX - SOLA, DUO

SEALWERX SERIES



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. Additional cost and equipment will be required. ✓

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

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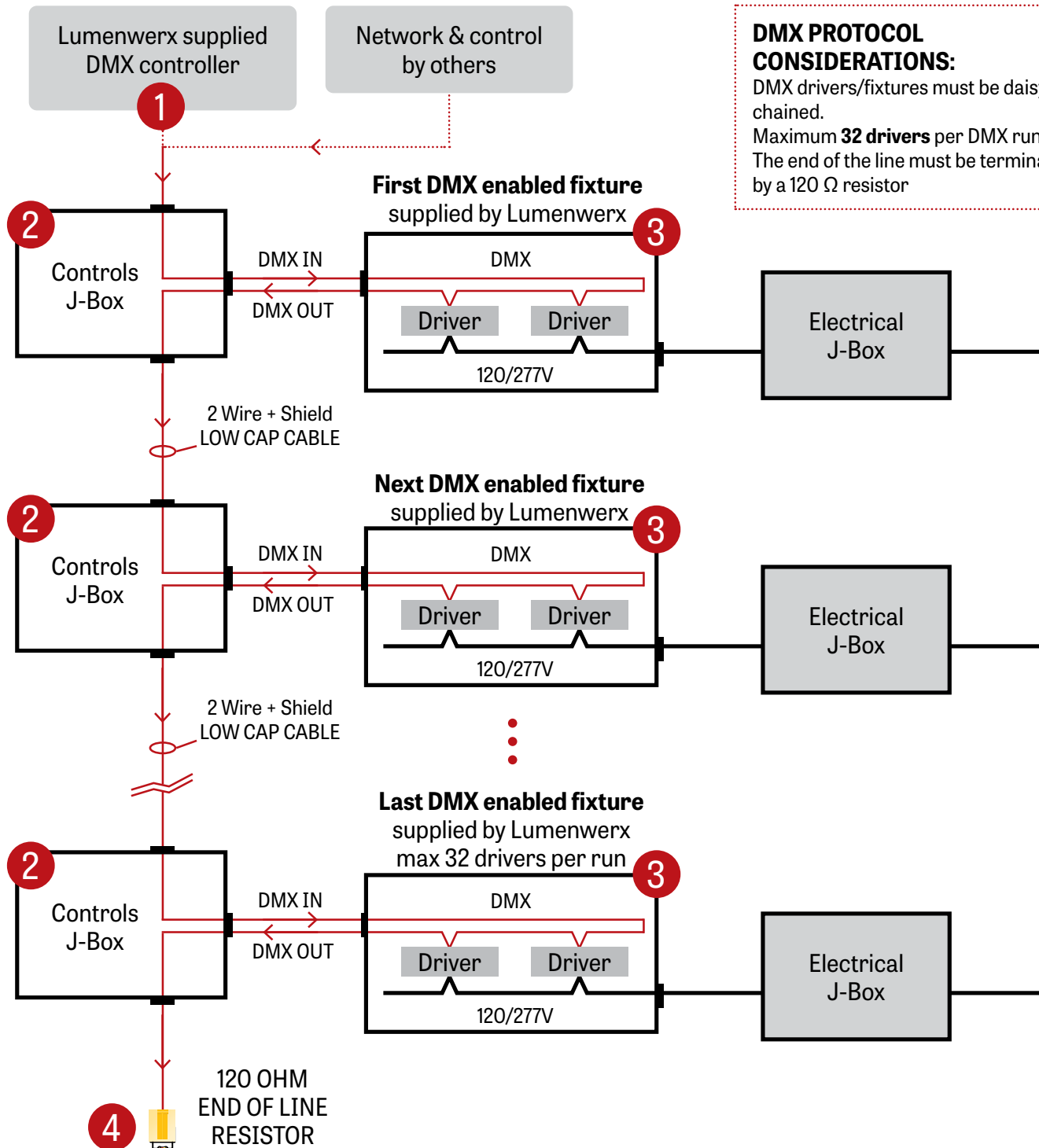
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CHROMAWERX - SOLA, DUO

SEALWERX SERIES

 Lumenwerx

GENERIC DMX NETWORK ARCHITECTURE



VIA 2 SEAL

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CHROMAWERX - SOLA, DUO

SEALWERX SERIES



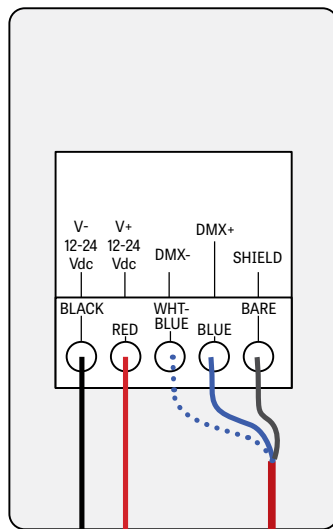
1 LUMENWERX SUPPLIED DMX CONTROLLER

To the first fixture

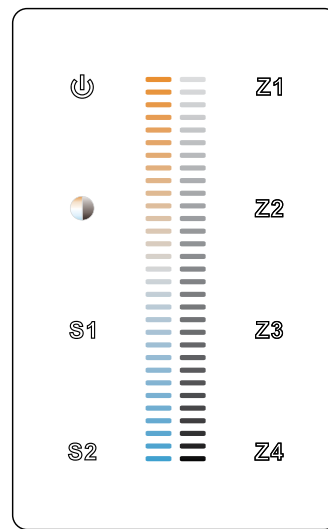


2 Wire +
Shield Low Cap Cable

Back Panel



Front Panel



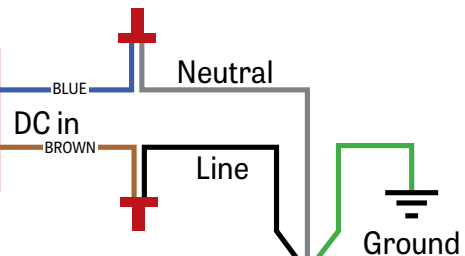
Controller image may differ

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

DC out

Power Supply
120-277VAC / 24VDC

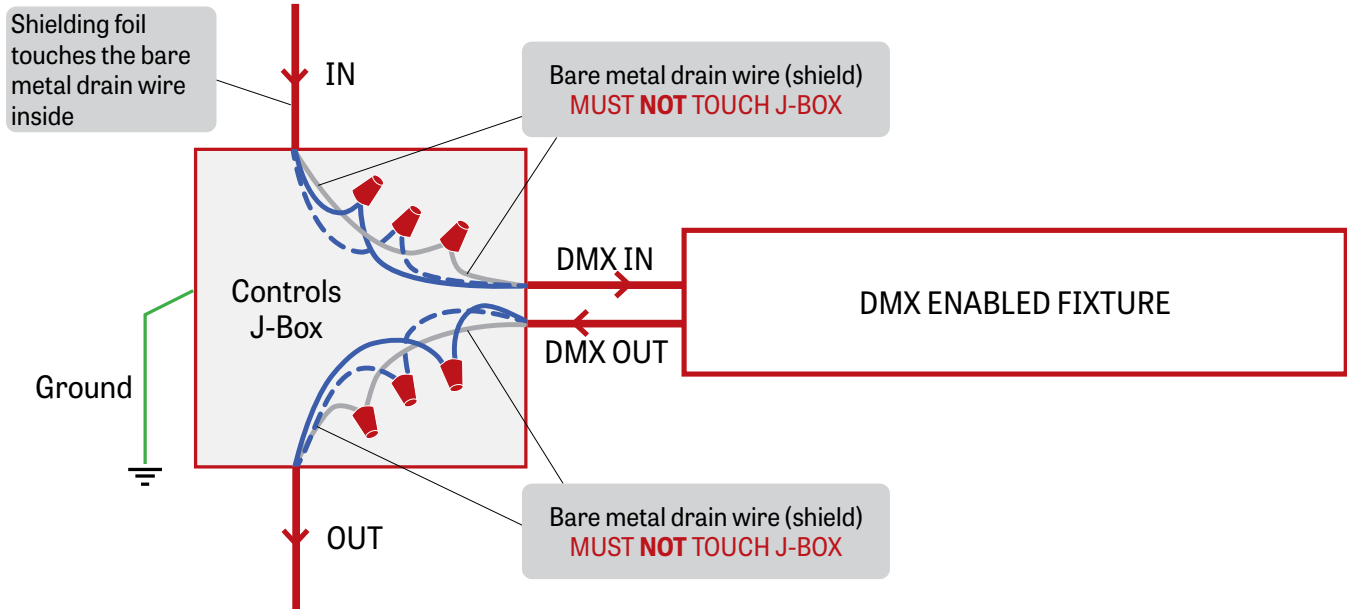
N
L



Electrical
J-Box

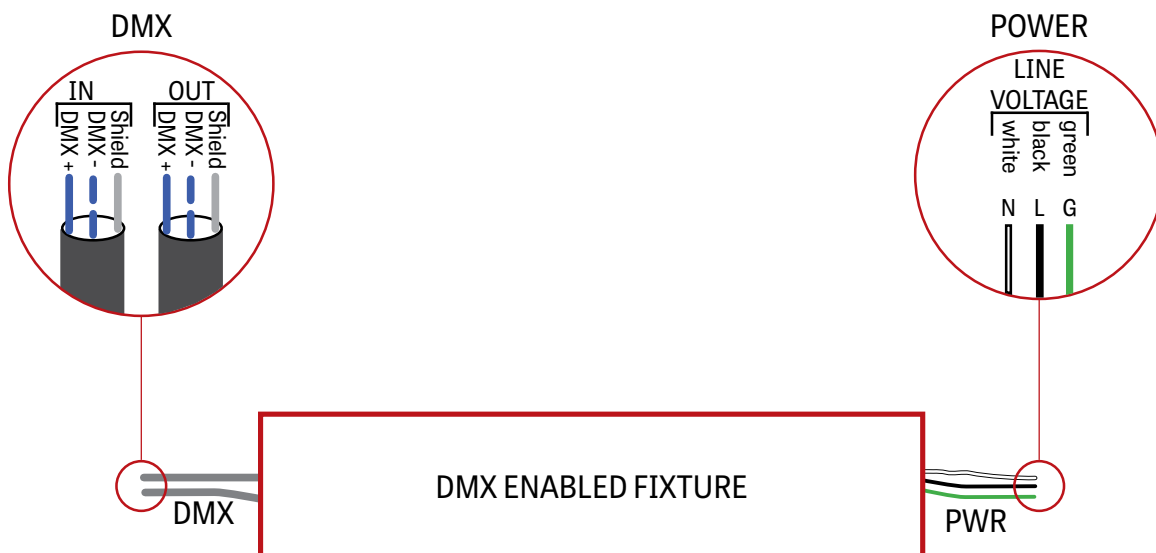
2 J-BOX DMX DAISY CHAIN DETAIL

Low capacitance DMX Cable from Previous Fixture



Low capacitance DMX cable to next fixture

3 DMX CONNECTION RECESSED & SURFACE



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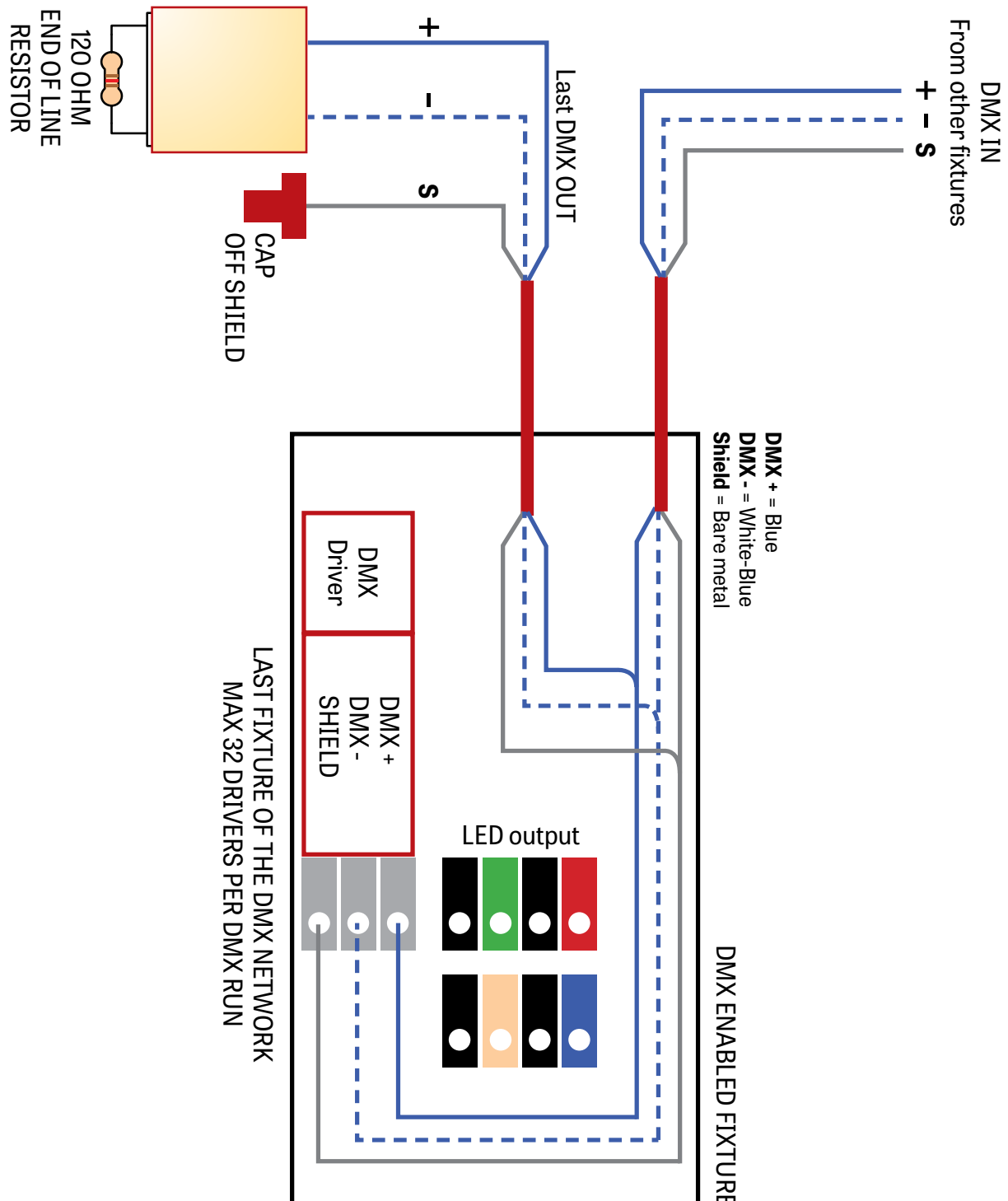
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4 DMX LAST FIXTURE DETAIL



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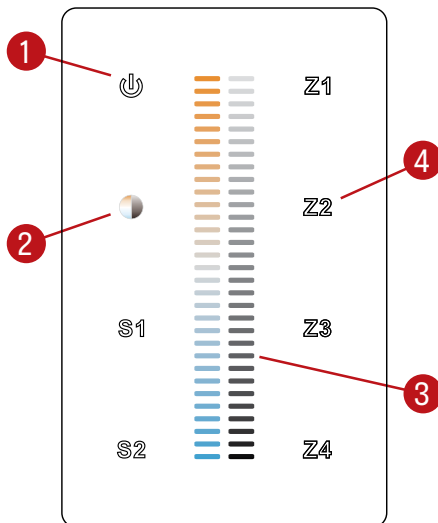
CHROMAWERX - SOLA, DUO

SEALWERX SERIES

 **Lumenwerx**

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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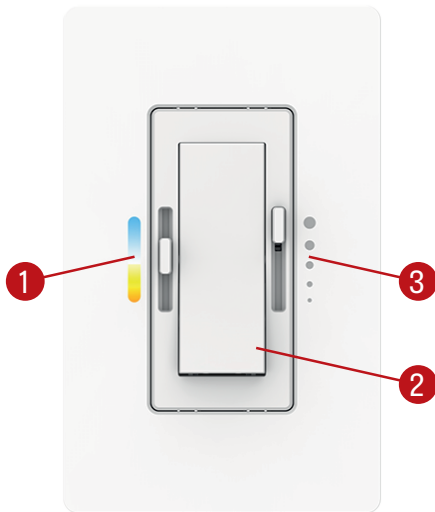
CHROMAWERX - SOLA, DUO

SEALWERX SERIES

Lumenwerx

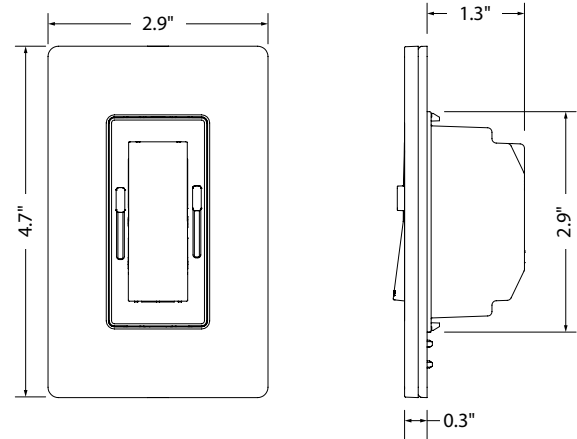
DUAL 0-10V WALL CONTROLLER

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

