

VIA 2 SEAL

WALL PATTERN

DIRECT, DIRECT/INDIRECT

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.

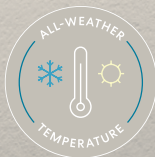
IP RATINGS

IP66
IP65
IP65EC
IP44

LIGHT SOURCE

SOLA - Dim-to-Warm
DUO - Tunable White

UP TO
IK08



SENSORS
For latest
information
on sensors,
click [here](#).



VIA 2 SEAL

WALL PATTERN
DIRECT, DIRECT/INDIRECT

SEALWERX SERIES



Project: _____
Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	ENVIRONMENT ¹	DIRECT OPTIC	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE ³	CRI
V2SEALWPAT						
V2SEALWPAT - Via 2" Seal Wall Pattern	D - Direct DI - Direct/ Indirect	<u>Direct:</u> IP66 - IP66-Rated IP65EC - IP65-Rated Electrical Components 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.	<u>Direct/Indirect:</u> IP65 - IP65- Rated IP44 ² - IP44- Rated	EPDO - Environmentally Protected Direct Optic ASDO - Asymmetric Soft Direct Optic	EPIO - Environmentally Protected Indirect Optic ASIO - Asymmetric Soft Indirect Optic NA - Not applicable ³ Static white and BIOS also available. Consult factory for RGBW.	80CRI - 80+ CRI 90CRI - 90+ CRI

DIRECT LUMEN PACK.	INDIRECT LUMEN PACK. Specify NA for Direct fixture	PATTERN LENGTH	CORNER TYPE ⁵
350LMF - Low output 350 lm/ft 500LMF - Medium output 500 lm/ft 750LMF - High output 750 lm/ft	350LMF - Low output 350 lm/ft 500LMF - Medium output 500 lm/ft 750LMF - High output 750 lm/ft NA - Not applicable	##FT##IN(##X##FT##IN-##X##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' for Direct. • Minimum 3' for Direct/Indirect. • Minimum 4' for DMX.	#LEVI2C(A##) - 2-way leveled inside corner #LEVO2C(A##) - 2-way leveled outside corner ⁵ Specify quantity (#) for each required corner type. If more than one option is specified, separate codes with a "+", e.g. 1LEVI2C(A90)+2LEVO2C(A60). ⁶ Minimum angle is 45°. ANGLE (A##): (A90) - 90° (A##) ⁶ - Custom

VOLTAGE	DRIVER ⁷	ELECTRICAL	POWER FEED	MOUNTING	FINISH	OPTION
		1C				
120V - 120V 277V - 277V UNV - 120V-277V	<u>SOLA</u> SD1 - Single 0-10V input <u>DUO</u> DMX ^{8,9} - DMX DDA ⁹ - DALI DT6 DDA8 ⁹ - DALI DT8 DD1 - Dual 0-10V input for CCT/intensity LD2 ⁹ - Lutron DALI-2 digital ⁷ See page 5 for driver temperature ranges. ⁸ For more information, see pages 11 to 16. ⁹ On-site commissioning is required.	1C - 1 circuit	BF - Back feed EF - End feed	HMB - Horizontal mounting bracket MMB - Mullion mounting bracket	W - Matte white AL - Aluminum B - Matte black WA - White antimicrobial Silverwerx CF# - Custom finish, specify RAL#	CRF - Corrosion- resistant finish NA - None

Accessories

Optional, order separately

WALL CONTROLLER ¹⁰

DMX	DD1
WCW##FT ¹¹ - DMX wall controller white WCB##FT ¹¹ - DMX wall controller black	TWCW##FT ¹² - Dual 0-10V wall controller white TWCB##FT ¹² - Dual 0-10V wall controller black

¹⁰Specify wire length (##) in feet.

¹¹Available with DMX only. For more information, see pages 11 to 16, or consult factory.

¹²Available with DD1 only. For more information, see page 17, or consult factory.

VIA 2 SEAL

WALL PATTERN
DIRECT, DIRECT/INDIRECT

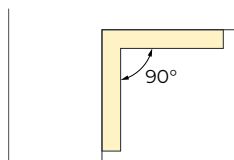
SEALWERX SERIES



Pattern Layout

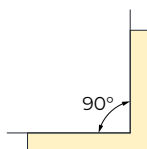
CORNER TYPES

LEVELED INSIDE CORNER



1LEVI2C(A90)

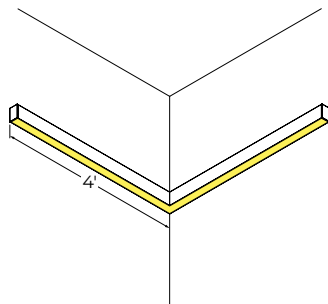
LEVELED OUTSIDE CORNER



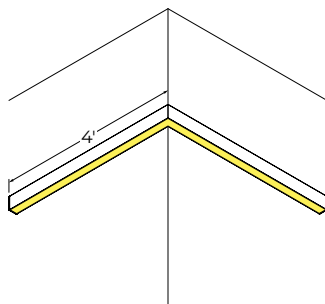
1LEVO2C(A90)

2-way

EXAMPLES



8FT(2X4FT)-1LEVI2C(A90)



8FT(2X4FT)-1LEVO2C(A90)

VIA 2 SEAL

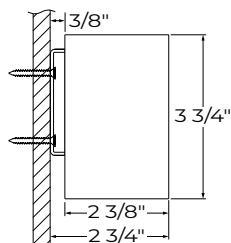
WALL PATTERN
DIRECT, DIRECT/INDIRECT

SEALWERX SERIES

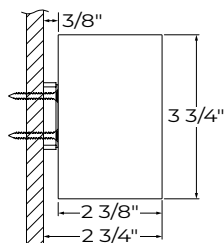


Dimensions

DIRECT

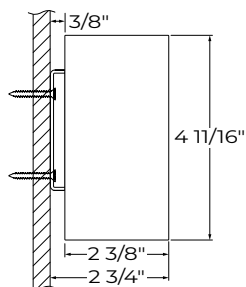


HMB - Horizontal mounting bracket

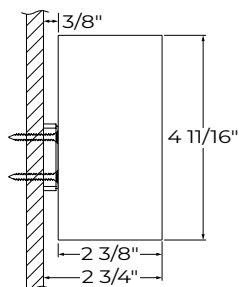


MMB - Mullion mounting bracket

DIRECT/INDIRECT



HMB - Horizontal mounting bracket



MMB - Mullion mounting bracket

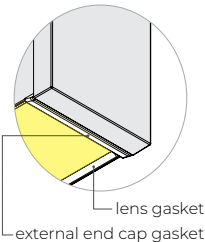
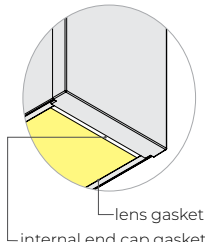
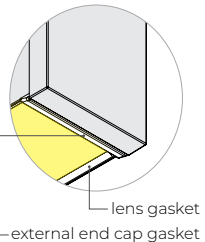
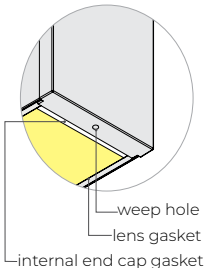
VIA 2 SEAL

WALL PATTERN
DIRECT, DIRECT/INDIRECT



SEALWERX SERIES

Environment Options

Direct			Direct/Indirect	
IP66		IP65EC <small>Electrical Components</small>	IP44	
Dust tight	High water resistance	Dust tight	Moderate water resistance	Particles larger than 1mm protected
OUTDOOR		OUTDOOR		
Directly exposed to the elements		Moderate exposure to the elements		Under canopy, not exposed
INDOOR		INDOOR		
Wipe down application Healthcare application Cleanroom application		Wipe down application Healthcare application		
				
External joiner gasket every 12'		Continuous line of light over 12'		
				
Driver: in a sealed enclosure Electrical connections: water and dust proof		Driver: in a sealed enclosure Electrical connections: water and dust proof		
LED boards: conformal coated for maximum protection		LED boards: conformal coated for maximum protection		

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	

VIA 2 SEAL

WALL PATTERN
DIRECT, DIRECT/INDIRECT

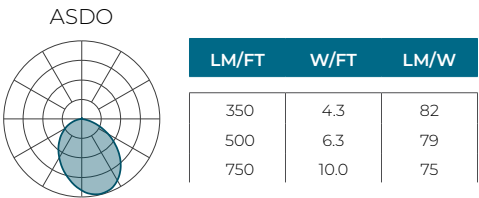
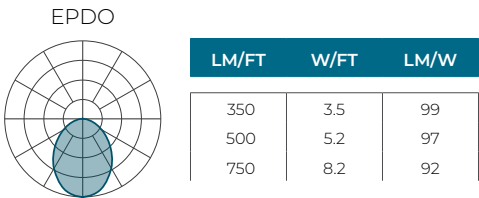
SEALWERX SERIES



Photometrics

Values calculated based on a 4' fixture at 3500K and 80+ CRI for all optics.

DIRECT



MULTIPLIER TABLES

Use these tables to get results for different color temperatures, CRI, and drop lenses, for all photometric tables.

SOLA

CCT	WATTS		LPW	
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
3500K	1.00	1.19	1.00	0.84

DUO

CCT	WATTS		LPW	
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
2700K	1.05	1.27	0.95	0.79
6500K	1.00	1.14	1.00	0.88



VIA 2 SEAL

WALL PATTERN
DIRECT, DIRECT/INDIRECT

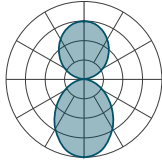


SEALWERX SERIES

Photometrics

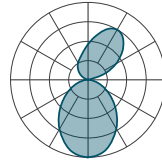
Values calculated based on a 4' fixture at 3500K and 80+ CRI for all optics.

DIRECT/INDIRECT



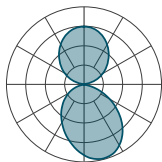
EPDO - EPIO

LM/FT		TOTAL LM/FT	W/FT	LM/W
D	I			
EPDO EPIO				
350	350	700	7.0	100
	500	850	8.7	98
	750	1100	11.7	94
500	350	850	8.7	98
	500	1000	10.3	97
	750	1250	13.3	94
750	350	1100	11.7	94
	500	1250	13.3	94
	750	1500	16.3	92



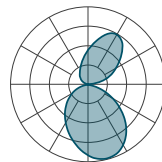
EPDO - ASIO

LM/FT		TOTAL LM/FT	W/FT	LM/W
D	I			
EPDO ASIO				
350	350	700	6.9	102
	500	850	8.5	100
	750	1100	11.3	97
500	350	850	8.5	100
	500	1000	10.1	99
	750	1250	13.0	96
750	350	1100	11.6	95
	500	1250	13.2	95
	750	1500	16.0	94



ASDO - EPIO

LM/FT		TOTAL LM/FT	W/FT	LM/W
D	I			
ASDO		EPIO		
350	350	700	7.8	90
	500	850	9.4	90
	750	1100	12.4	89
500	350	850	9.8	87
	500	1000	11.5	87
	750	1250	14.5	86
750	350	1100	13.6	81
	500	1250	15.2	82
	750	1500	18.1	83



ASDO - ASIO

LM/FT		TOTAL LM/FT	W/FT	LM/W
D	I			
ASDO		ASIO		
350	350	700	7.6	92
	500	850	9.2	92
	750	1100	12.1	91
500	350	850	9.7	88
	500	1000	11.2	89
	750	1250	14.2	88
750	350	1100	13.4	82
	500	1250	15.1	83
	750	1500	17.9	84

MULTIPLIER TABLES

Use these tables to get results for different color temperatures, CRI, and drop lenses, for all photometric tables.

SOLA

CCT	WATTS		LPW	
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
3500K	1.00	1.19	1.00	0.84

DUO

CCT	WATTS		LPW	
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
2700K	1.05	1.27	0.95	0.79
6500K	1.00	1.14	1.00	0.88

VIA 2 SEAL

WALL PATTERN

DIRECT, DIRECT/INDIRECT

SEALWERX SERIES



Technical Specifications

DIRECT 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.

INDIRECT OPTICS

Environmentally Protected Indirect Optic (EPIO)

The Environmentally Protected Indirect Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. The lens is 1/16" thick and made of frosted polycarbonate. This extruded snap-in lens has a gasket to ensure proper sealing. The EPIO suits moderate climate environments.

Asymmetric Soft Indirect Optic (ASIO)

The Asymmetric Soft Indirect Optic creates a seal that blocks debris and moisture, and withstands UV distortion and moderate impact. The lens is 1/16" thick and made of clear polycarbonate. This extruded snap-in lens has a gasket to ensure proper sealing. The total internal reflection and surface scattering optic is specifically angled to guide the light through the lens to create a nice asymmetric distribution. The ASIO 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.

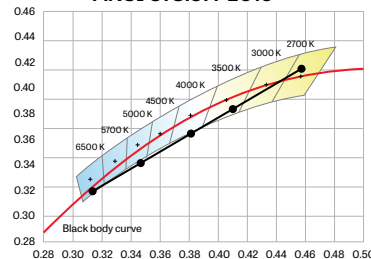
Chromawerx SOLA

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



VIA 2 SEAL

WALL PATTERN

DIRECT, DIRECT/INDIRECT

SEALWERX SERIES



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.



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' for Direct fixtures, and 3' for Direct/Indirect fixtures. 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.

WEEP HOLES

The Direct/Indirect fixtures, with the IP44-Rated option, feature a weep hole situated in the end cap. Water and moisture that enters the fixture will be expelled through this hole.



TEMPERATURE VARIATION PROTECTION

The integrated pressure equalization and moisture control GORE® protective vent allows air to flow while blocking water, dust, and contaminants. It 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.

VIA 2 SEAL

WALL PATTERN

DIRECT, DIRECT/INDIRECT

SEALWERX SERIES

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 may be horizontally mounted to either a wall or a mullion using a bracket. For long runs, a minimum of 6" from adjacent wall is required.

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.

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

End cap: Die-cast aluminum

Horizontal mounting bracket: Steel bracket with stainless steel PEM studs and sealing washers

Mullion mounting bracket: Die-cast aluminum

CERTIFICATIONS

ETL: IP44-Rated environment option is rated for dry/damp locations. IP66-Rated, IP65-Rated, and IP65-Rated Electrical Components 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.

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.

VIA 2 SEAL

WALL PATTERN
DIRECT, DIRECT/INDIRECT

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. ✓

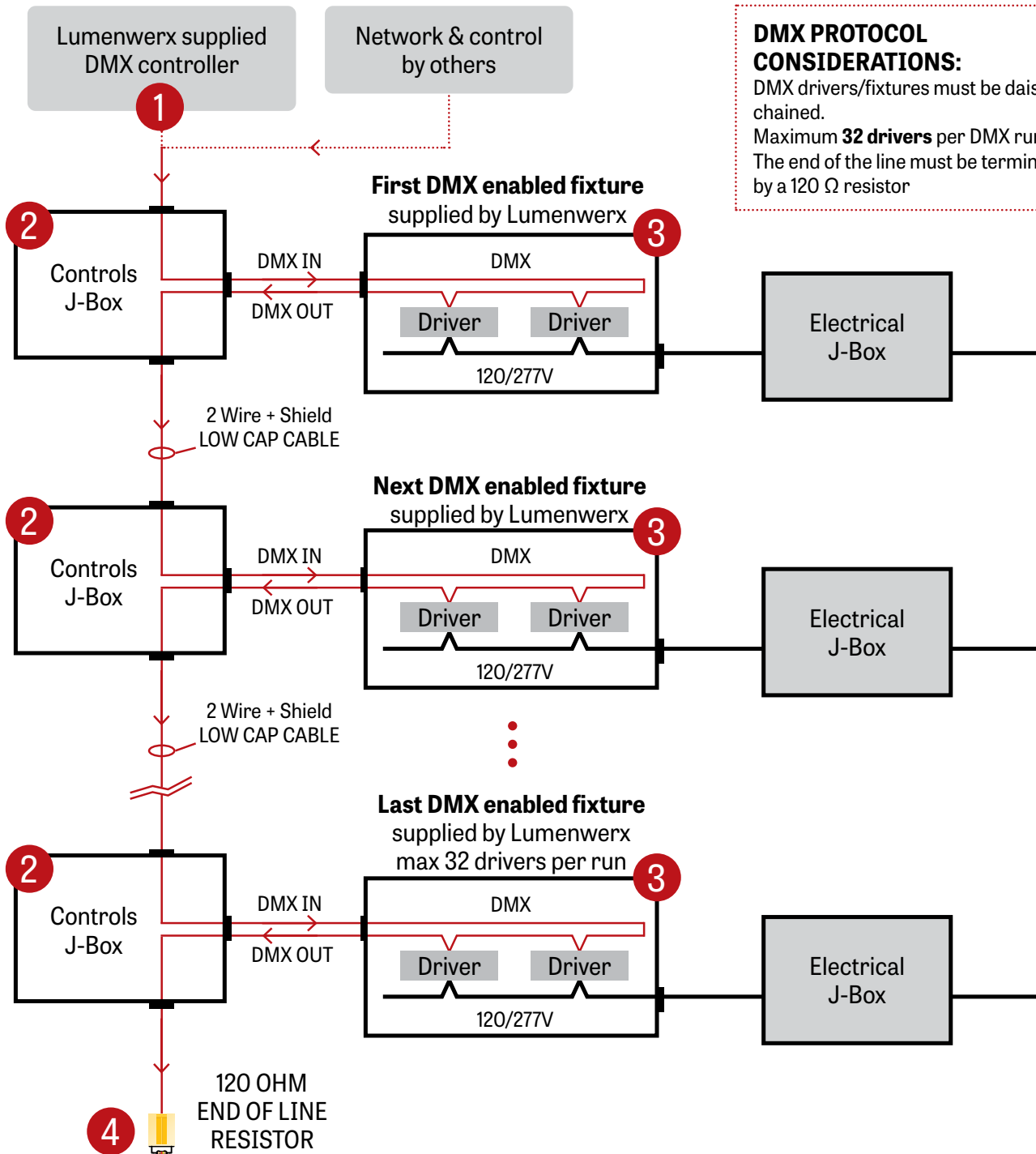
VIA 2 SEAL

WALL PATTERN
DIRECT, DIRECT/INDIRECT

SEALWERX SERIES

Lumenwerx

GENERIC DMX NETWORK ARCHITECTURE



VIA 2 SEAL

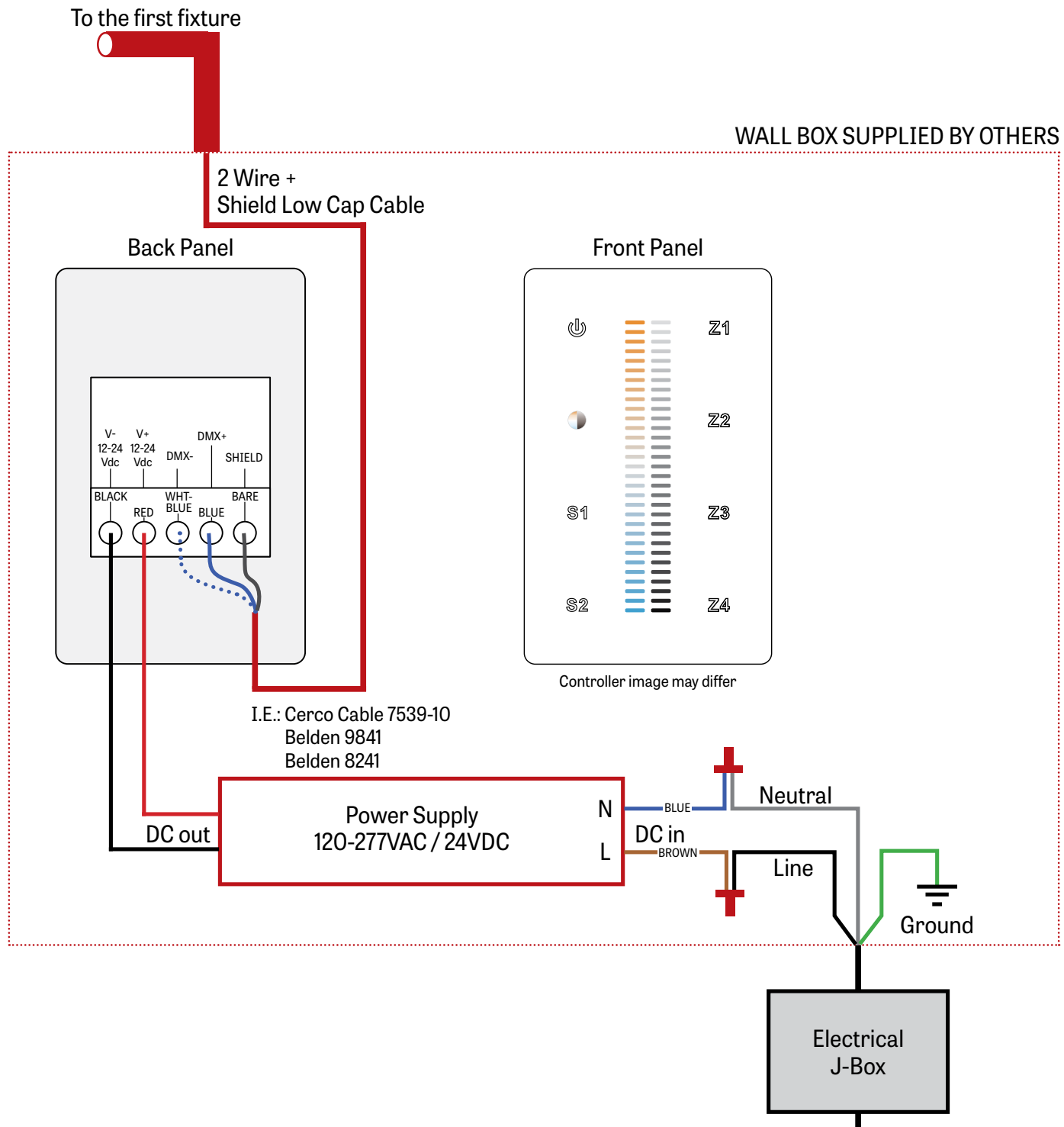
WALL PATTERN

DIRECT, DIRECT/INDIRECT

SEALWERX SERIES



1 LUMENWERX SUPPLIED DMX CONTROLLER



VIA 2 SEAL

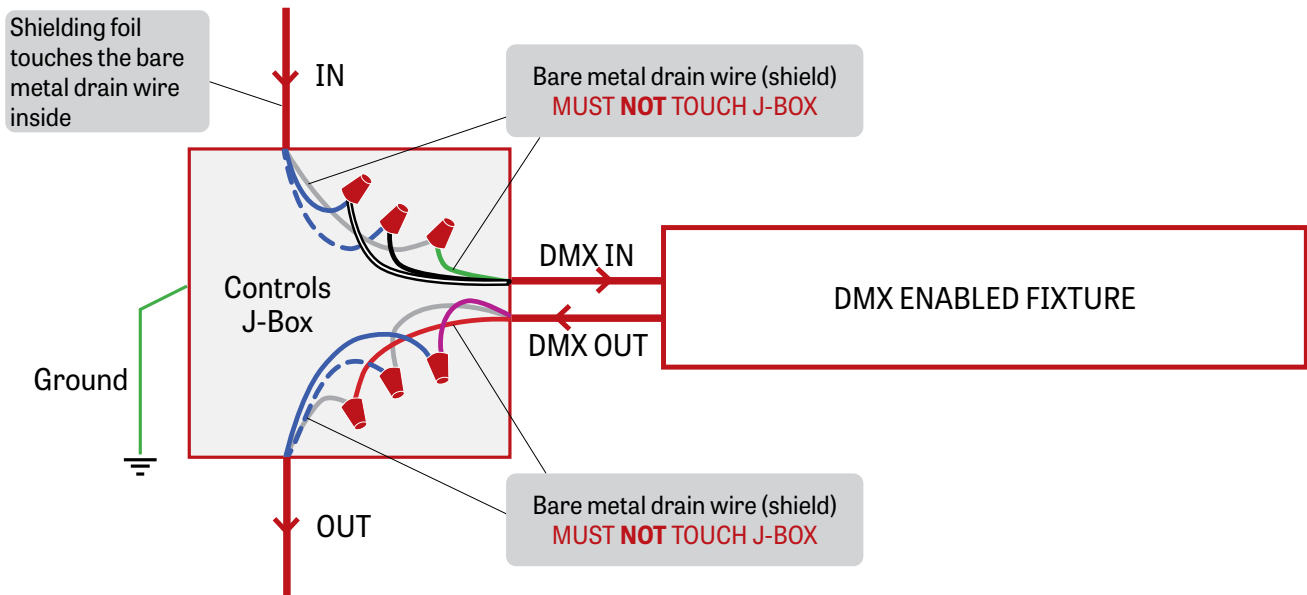
WALL PATTERN
DIRECT, DIRECT/INDIRECT

SEALWERX SERIES



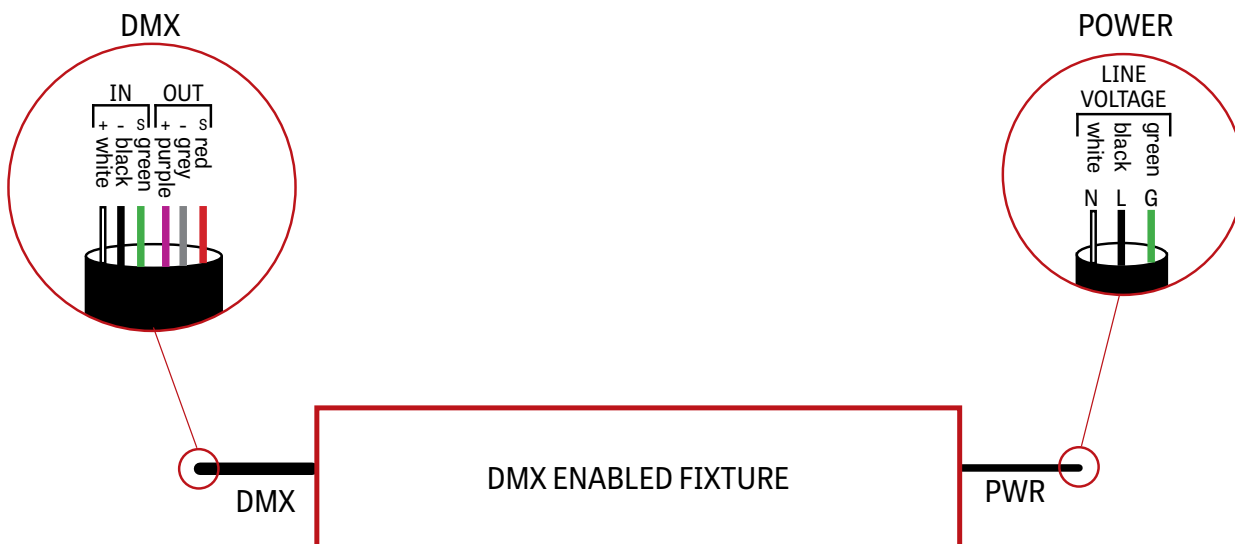
2 J-BOX DMX DAISY CHAIN DETAIL

Low capacitance DMX Cable from Previous Fixture



Low capacitance DMX cable to next fixture

3 DMX CONNECTION PENDANT & WALL



WALL PATTERN
DIRECT, DIRECT/INDIRECT

SEALWERX SERIES

DMX IN
From other fixtures
+ - S

Last DMX OUT

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

DMX ENABLED FIXTURE

LED output

DMX Driver

DMX +
DMX -
SHIELD

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

CAP OFF SHIELD

120 OHM
RESISTOR

END OF LINE

VIA 2 SEAL

WALL PATTERN

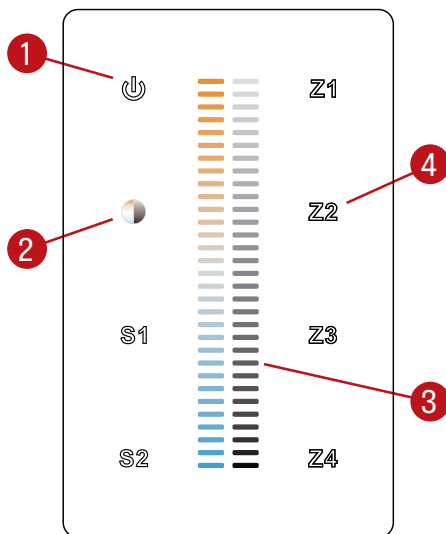
DIRECT, DIRECT/INDIRECT

SEALWERX SERIES



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

VIA 2 SEAL

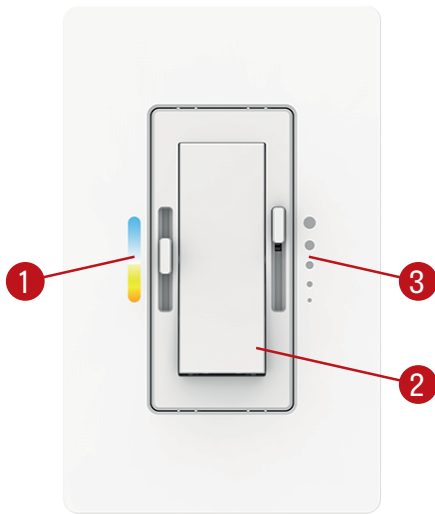
WALL PATTERN
DIRECT, DIRECT/INDIRECT



SEALWERX SERIES

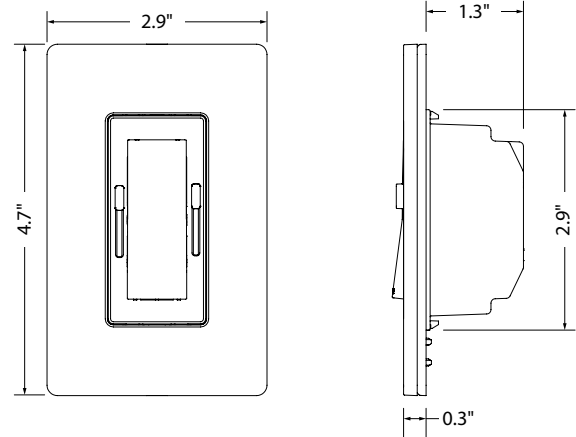
DUAL 0-10V WALL CONTROLLER

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

