VIA 4 SEAL

VVALL

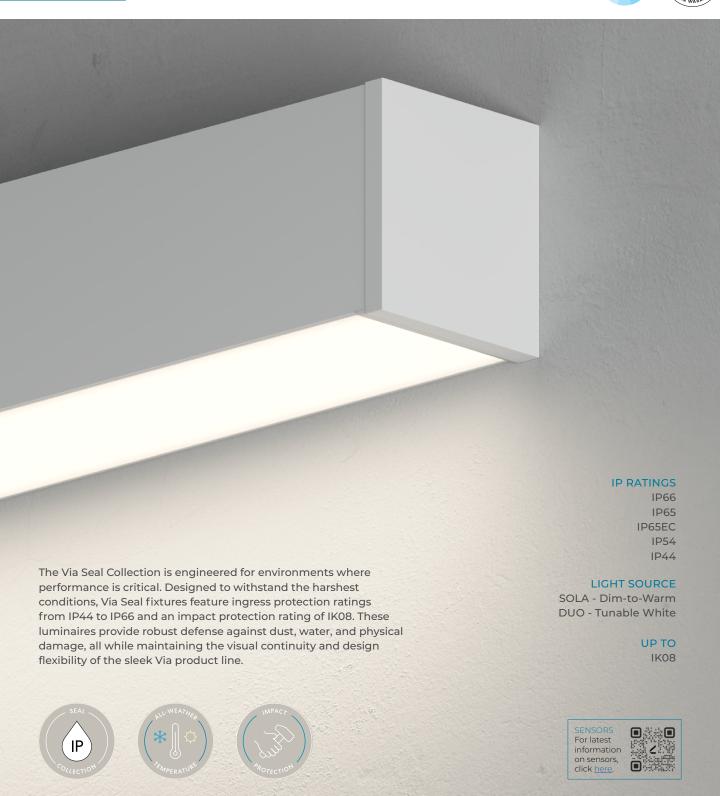






SEALWERX SERIES

DIRECT, DIRECT/INDIRECT





WALL

DIRECT, DIRECT/INDIRECT

SEALWERX SERIES

	LU	me	env	we	rx

Order Guide

LUMINAIRE ID	DISTRIBUTION	ENVIRONMENT ²	DIRECT OPTIC	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE 3
V4SEALW					
V4SEALW - Via 4" Seal Wall	D - Direct DI - Direct/ Indirect	Direct: IP66 - IP66-Rated IP65EC - IP65-Rated Electrical Components IP54 2 - IP54-Rated IP44 2 - IP44-Rated See page 4 for more information on for each environment option. Fixture must be installed with direct	EPDO - Environmentally Protected Direct Optic ASDO - Asymmetric Soft Direct Optic	EPIO - Environmentally Protected Indirect Optic ASIO - Asymmetric Soft Indirect Optic NA - Not applicable	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.

Project:

Туре:

CRI	DIR. LUM. PACK.	INDIR. LUM. PACK. Specify NA for Direct fixture	LUMINAIRE LENGTH	VOLTAGE	DRIVER ⁵	ELECTRICAL
						1C
80CRI - 80+ CRI 90CRI - 90+ CRI	500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF - High output 1000 lm/ft	500LMF - Low output 500 lm/ft 750LMF - Medium output 750 lm/ft 1000LMF - High output 1000 lm/ft NA - Not applicable	#FT#IN 4 - Specify nominal length (#) in 1' and/or 1" increments Standard nominal lengths: Single units: 2' to 12' Continuous runs: lengths over 12' 4 · Minimum 2' for Direct. · Minimum 3' for Direct/Indirect. · Minimum 4' for DMX.	120V - 120V 277V - 277V UNV - 120V-277V	SOLA SDI - 1% 0-10V DUO DMX 6.7 - DMX DDA 7 - DALI DT6 DDA8 7 - DALI DT8 DDI - Dual 0-10V input for CCT/intensity LD2 7 - Lutron DALI-2 digital See page 4 for driver temperature ranges. For more information, see pages 10 to 15. 7 On-site commissioning is required.	1C - 1 circuit

POWER FEED	MOUNTING	FINISH	OPTION
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 8

ı				
	DMX	וסס		
	WCW##FT 9 - DMX wall controller white WCB##FT 9 - DMX wall controller black	TWCW##FT ¹⁰ - Dual 0-10V wall controller white TWCB##FT ¹⁰ - Dual 0-10V wall controller black		
	⁸ Specify wire length (##) in feet. ⁹ Available with DMX only. For more information, see pages 10 to 15, or consult factory. ¹⁰ Available with DD1 only. For more information, see page 16, or consult factory.			



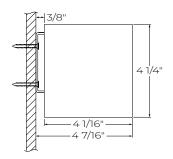


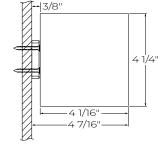


SEALWERX SERIES

Dimensions

DIRECT

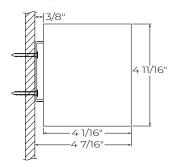


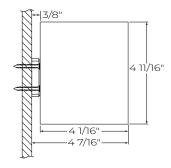


HMB - Horizontal mounting bracket

MMB - Mullion mounting bracket

DIRECT/INDIRECT





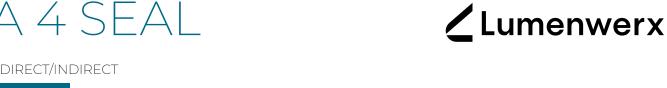
HMB - Horizontal mounting bracket

MMB - Mullion mounting bracket



SEALWERX SERIES

Environment Options



			Dir	ect			
IP6	6		5EC Components	IP5	4	IP4	4
Dust tight	High water resistance	Dust tight	Moderate water resistance	Dust protected	Water splash resistance	Particles larger than 1mm protected	splash
	OUT						
Directly exposed to the elements Moderate exposure to the elements			canopy, exposed		canopy, posed		
INDC Wipe down application Healthcare application Cleanroom application			OOOR Wipe down application Healthcare application				
	external end	-lens gasket d cap gasket		lens gasket internal end cap gasket			
External joiner gasket every 12' Continuou light ov			with soft s	iner gasket hadow line ry 12'		ous line of over 12'	
	sealed enclos onnections: v		st proof				
LED boards	s: conformal c	coated for ma	aximum				

	Direct/I	ndirect	:
IP6		IP4	
Dust tight	Moderate water resistance	Particles larger than 1mm protected	Water splash resistance
	OUTE	OOR	
Moderate e the ele	exposure to ments		canopy, posed
	INDO	OOR	
	application application application	Wipe down Healthcare	
external end	lens gasket d cap gasket	internal end	—weep hole —lens gasket d cap gasket
External joi ever			ous line of over 12'
Driver: in a senctosure Electrical co	onnections:		
LED boards coated for n protection			

	Amb	ient Temperature Range based on driver selection	
	LD2	SDI / DMX / DDA / DDA8	DDI
Minimum temperature:	0 °C / 32 °F	-20 °C / -4 °F	-25 °C / -13 °F
Maximum temperature:		40 °C / 104 °F	





SEALWERX SERIES

Photometrics

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

DIRECT



LM/FT	W/FT	LM/W
500	4.9	101
750	7.7	98
1000	10.5	95



LM/FT	W/FT	LM/W
500	4.4	113
750	7	107
1000	9.7	103

MULTIPLIER TABLES

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

SOLA

ССТ	WA	TTS	LP	w
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
3500K	1.00	1.19	1.00	0.84

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ССТ	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



SEALWERX SERIES

Photometrics

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

DIRECT/INDIRECT



EPDO - EPIO



EPDO - ASIO



Lumenwerx

EPDO - WIO2

LM,	/FT	TOTAL	W/FT	LM/W
D	- 1	LM/FT		
EPDO	EPIO			
	500	1000	10.1	99
500	750	1250	13.2	95
	1000	1500	16.3	92
	500	1250	12.9	97
750	750	1500	15.8	95
	1000	1750	19.0	92
	500	1500	15.8	95
1000	750	1750	18.8	93
	1000	2000	22.0	91

LIVI	/୮	TOTAL	VV/ F 1	LIVI/ VV
D	- 1	LM/FT		
EPDO	ASIO			
	500	1000	9.2	109
500	750	1250	11.6	108
	1000	1500	14.2	106
	500	1250	11.9	105
750	750	1500	14.3	105
	1000	1750	16.8	104
	500	1500	14.9	101
1000	750	1750	17.2	102
	1000	2000	19.8	101

LM	/FT	TOTAL	W/FT	LM/W
D	1	LM/FT		
EPDO	WIO2			
	500	1000	9.1	110
500	750	1250	11.5	109
	1000	1500	14.0	107
	500	1250	11.8	106
750	750	1500	14.2	106
	1000	1750	16.7	105
	500	1500	14.7	102
1000	750	1750	17.2	102
	1000	2000	19.6	102





ASDO - ASIO

			\
	V		
/	X	-)/	

ASDO - WIO2

ASDO - EPIO				
LM,	/FT	TOTAL LM/FT	W/FT	LM/W
D				
ASDO	EPIO			
	500	1000	9.6	104
500	750	1250	12.6	99
	1000	1500	15.8	95
	500	1250	12.1	103
750	750	1500	15.2	99
	1000	1750	18.4	95
	500	1500	14.9	101
1000	750	1750	17.9	98
	1000	2000	21.3	94

LM	/FT	TOTAL	W/FT	LM/W	
D	1.0	LM/FT			
ASDO	ASIO				
	500	1000	8.6	116	
500	750	1250	11.1	113	
	1000	1500	13.6	110	
	500	1250	11.2	112	
750	750	1500	13.6	110	
	1000	1750	16.2	108	
	500	1500	14.0	107	
1000	750	1750	16.4	107	
	1000	2000	18.9	106	

LM	/FT	TOTAL	W/FT	LM/W
D	1	LM/FT		
ASDO	WIO2			
	500	1000	8.5	117
500	750	1250	11.0	114
	1000	1500	13.5	111
	500	1250	11.2	112
750	750	1500	13.5	111
	1000	1750	16.1	109
	500	1500	13.9	108
1000	750	1750	16.2	108
	1000	2000	18.9	106

MULTIPLIER TABLES

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

SOLA

сст	WA	TTS	LP	•W
	80+ CRI	90+ CRI	80+ CRI	90+ CRI
3500K	1.00	1.19	1.00	0.84

DUO				
сст	WA	TTS	LP	w
	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



SEALWERX SERIES



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.

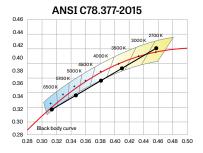


Chromawerx SOLA

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.



VIA 4 SEAL

WALL

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 55 or LO4 meets WELL glare category (c-d) (not applicable with 1000 lm/ft)
- 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

LUMINAIRE LENGTH

Via 4 Seal 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' for Direct fixtures, and 3' for Direct/Indirect fixtures. Lengths can be ordered in 1' and/or 1" increments. 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 intergrated 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%.

<u>DD1</u>

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.





SEALWERX SERIES



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

End cap gasket: 1/16" closed-cell silicone foam

Horizontal mounting bracket: Steel bracket with stainless steel

PEM studs and sealing washers

IK08: Impact resistance rated to IK08

Mullion mounting bracket: Die-cast aluminum

WEIGHT

Direct	Direct/Indirect
4': 15.0 lbs - 6.8 kg	4 ': 17.2 lbs - 7.8 kg
8': 27.6 lbs - 12.5 kg	8 ': 32.8 lbs - 14.9 kg
12': 40.1 lbs - 18.2 kg	12 ': 48.5 lbs - 22 kg

CERTIFICATIONS

ETL: IP44-Rated environment option is rated for dry/damp locations. IP66-Rated, IP65-Rated, IP65-Rated Electrical Components, and IP54-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.

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9 T (514) 225-4304 F (514) 931 -4862



www.Lumenwerx.com

Lumenwerx

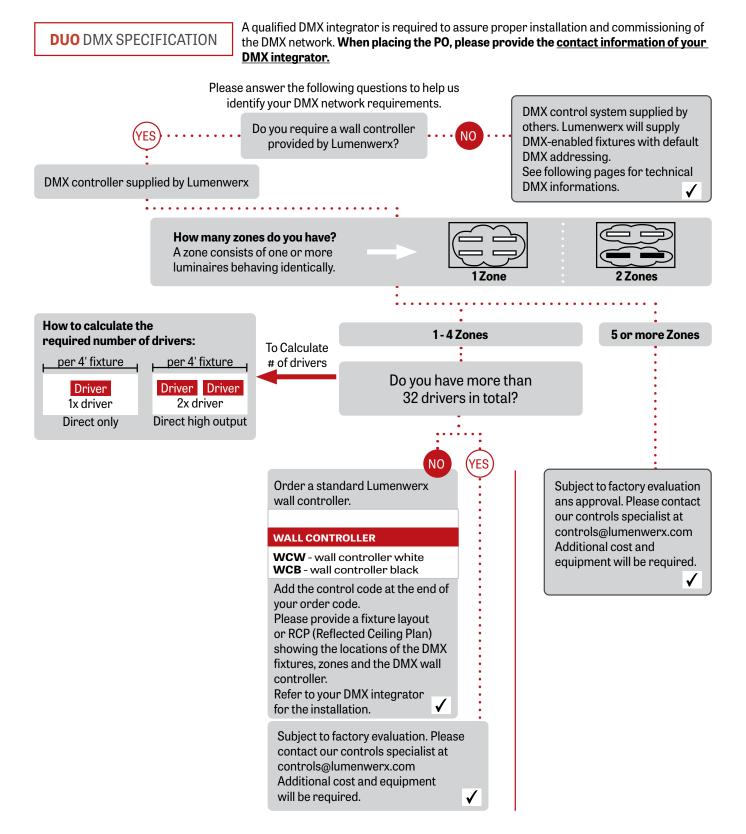
WARRANTY

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.









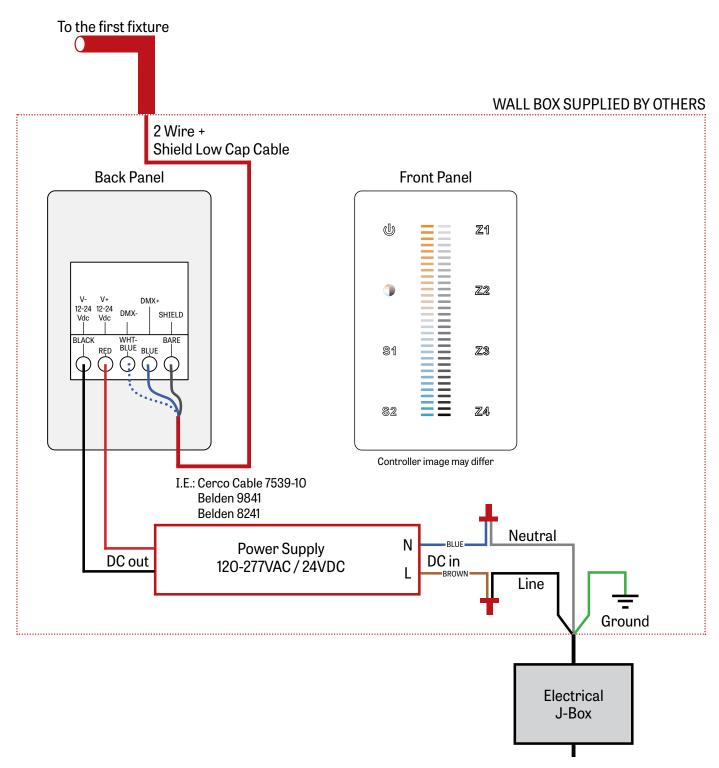


DIRECT, DIRECT/INDIRECT

GENERIC DMX NETWORK ARCHITECTURE **DMX PROTOCOL** Lumenwerx supplied Network & control DMX controller **CONSIDERATIONS:** by others DMX drivers/fixtures must be daisy chained. Maximum 32 drivers per DMX run. The end of the line must be terminated First DMX enabled fixture by a 120 Ω resistor supplied by Lumenwerx DMX IN DMX Controls J-Box **DMX OUT** Driver Electrical Driver J-Box 120/277V 2 Wire + Shield LOW CAP CABLE **Next DMX enabled fixture** supplied by Lumenwerx **DMX IN** DMX Controls J-Box **DMX OUT** Driver Driver Electrical J-Box 120/277V 2 Wire + Shield LOW CAP CABLE Last DMX enabled fixture supplied by Lumenwerx max 32 drivers per run DMX IN DMX Controls J-Box **DMX OUT** Driver Driver Electrical J-Box 120/277V 120 OHM **END OF LINE RESISTOR**



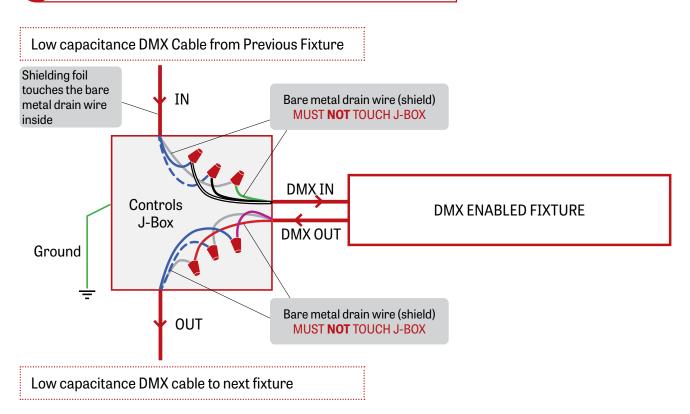
1 LUMENWERX SUPPLIED DMX CONTROLLER

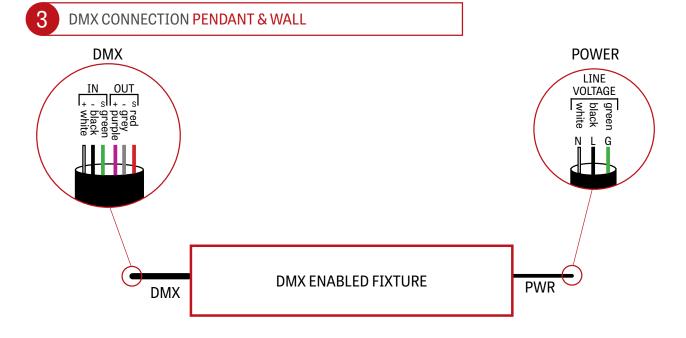






2 J-BOX DMX DAISY CHAIN DETAIL

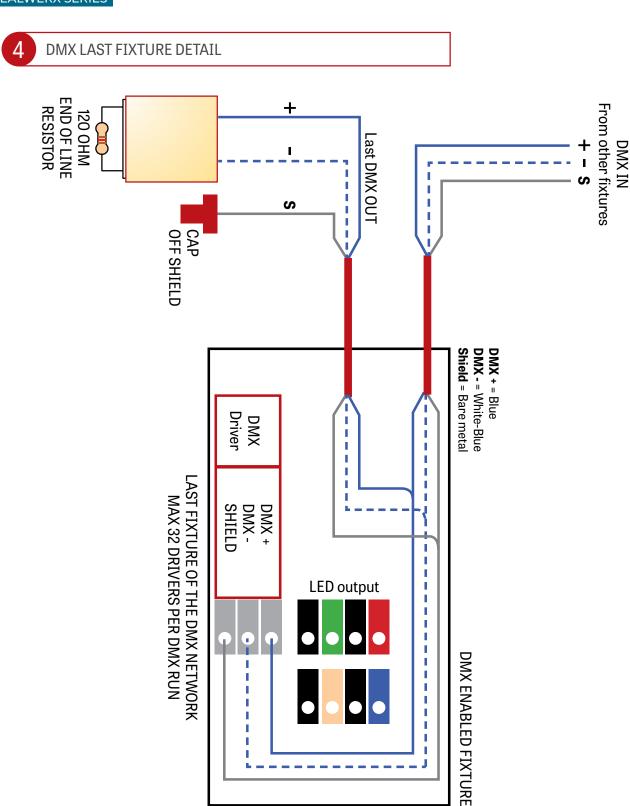








DIRECT, DIRECT/INDIRECT







DMX WALL CONTROLLER

DUO 1-4 ZONE

1
2
2
3
82
Z4

(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

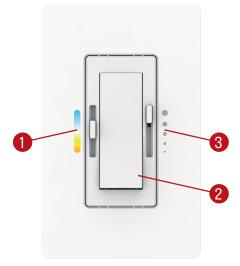




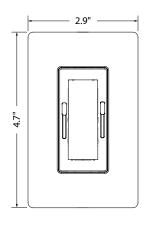


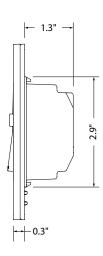
DUAL 0-10V WALL CONTROLLER

Front Panel



Dimensions





Controller image may differ

(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

