VIA 2 SEAL

LUMENWERX

WALL PATTERN

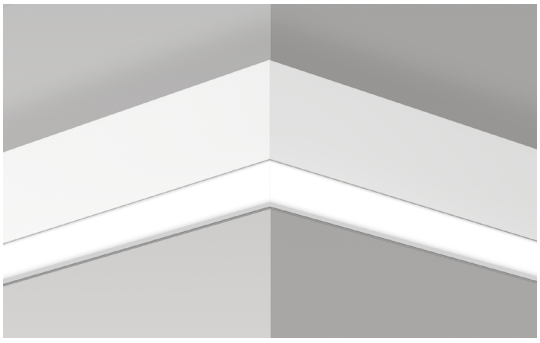
DIRECT, DIRECT/INDIRECT

CHROMAWERX - SOLA AND DUO

VIA WEATHER SERIES

Project: _____

Type: _____



LEVO - Leveled outside corner

DESCRIPTION

Sealed with silicone gaskets, Via Seal fixtures are intended for wet locations and can be pendant, surface, wall, or recessed mounted. They can act alone as discrete luminaires, or be arranged in continuous lines or patterns. Via 2 Seal is suitable for wet locations where temperatures are moderate and in which spaces are regularly wiped down and frequently in contact with debris and/or moisture. These luminaires can be used to create continuous, unbroken lines of light. See separate spec sheets for other available mountings.

IMPORTANT: Fixture must be installed with direct lens facing down.

IK05 LEVEL 1

Order Guide

LUMINAIRE ID	DISTRIBUTION	ENVIRONMENT [1]	DIRECT OPTIC	INDIRECT OPTIC Specify NA for Direct fixture	LIGHT SOURCE [3]	CRI
V2SEALWPAT		**WET**				
V2SEALWPAT - Via 2" Seal Wall Pattern	**D** - Direct **DI** - Direct/ Indirect	**WET** [2] - Wet Suitable (IP44) [1] See page 4 for more information. [2] Suitable for outdoor environments only when installed under canopy. Not suitable for extreme weather environments. Consult factory for low temperature applications.	**EPDO** - Environmentally Protected Direct Optic **ASDO** - Asymmetric Soft Direct Optic	**EPIO** - Environmentally Protected Indirect Optic **ASIO** - Asymmetric Soft Indirect Optic **WIO2** - Widespread 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 other spec sheet.	**80** - 80 CRI **90** - 90 CRI

DIRECT LUMEN PACK.	INDIRECT LUMEN PACK. Specify NA for Direct fixture	PATTERN LENGTH	CORNER TYPE	CORNER DEGREE	VOLTAGE	DRIVER [5]
350 - Low output 350 lm/ft **500** - Medium output 500 lm/ft **750** - High output 750 lm/ft	**350** - Low output 350 lm/ft **500** - Medium output 500 lm/ft **750** - High output 750 lm/ft **NA** - Not applicable	**#FT#IN** [4] - Specify nominal length (#) in 1' and/or 1" increments **Standard nominal lengths:** Continuous runs: lengths over 12' [4] Minimum 2' for Direct. Minimum 3' for Direct/Indirect.	**LEVI** - Leveled inside corner **LEVO** - Leveled outside corner	**90(#)** - 90° corner, specify the number of corners (#)	**120** - 120V **277** - 277V **UNV** - 120V-277V	SOLA **SD1** - Single 0-10V input DUO **DMX** [6,7] - DMX **DDA** [7] - DALI DT6 **DDA8** [7] - DALI DT8 **DD1** - Dual 0-10V input for CCT/intensity **PSQ0** [7] - Lutron T-Series 1% Tunable White [5] PoE (Power-over-Ethernet) compatible. Consult factory for details. [6] For more information, see pages 11 to 16. [7] On-site commissioning is required.

ELECTRICAL	POWER FEED	MOUNTING	FINISH	OPTIONS
1C				
1C - 1 circuit	**BF** - Back feed **TF** - Top feed **EF** - End feed	**DMB** - Drywall mounting bracket **MMB** - Mullion mounting bracket	**W** - Matte white **AL** - Aluminum **WA** - White antimicrobial Silverwerx **CF#** - Custom finish, specify RAL#	**NATA** - Natatorium finish **CRF** - Corrosion-resistant finish **NA** - None

Accessories

Optional, order separately

DMX WALL CONTROLLER [8]
WCW - Wall controller white **WBW** - Wall controller black [8] Available with DMX only. For more information, see pages 11 to 16, or consult factory.

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VIA 2 SEAL

LUMENWERX

WALL PATTERN

DIRECT, DIRECT/INDIRECT

CHROMAWERX - SOLA AND DUO

VIA WEATHER SERIES

Leveled Corner

HOW TO SPECIFY A PATTERN?

Please follow these steps when specifying in order to be as precise as possible.

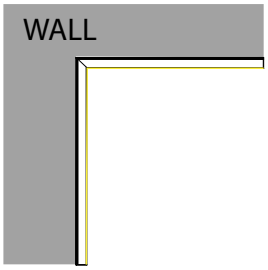
(1) We require a drawing illustrating the pattern you are trying to achieve - anything from a simple line drawing to elaborate architectural drawings will suffice.

(2) Under **PATTERN LENGTH**, enter the overall length of your pattern - either in feet or inches.

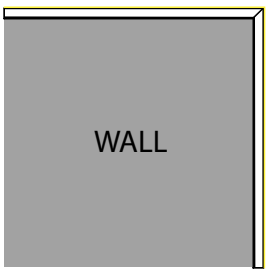
(3) Under **CORNER TYPE**, please enter the type (or types) of corner you require.

(4) Under **CORNER DEGREE**, please enter the angle in degrees, followed by the number of corners.

PATTERN LENGTH	CORNER TYPE	CORNER DEGREE
#FT#IN [1] - Specify nominal length (**#**) in 1' and/or 1" increments **Standard nominal lengths:** Continuous runs: lengths over 12' [1] Minimum 2' for Direct. Minimum 3' for Direct/Indirect.	**LEVI** - Leveled inside corner **LEVO** - Leveled outside corner	**90(#)** - 90° corner, specify the number of corners (**#**)



LEVI - Leveled inside corner



LEVO - Leveled outside corner

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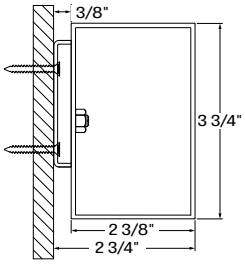
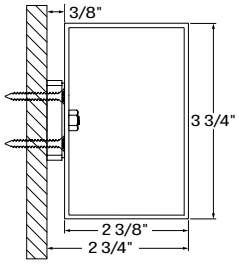
VIA WEATHER SERIES

Section Views

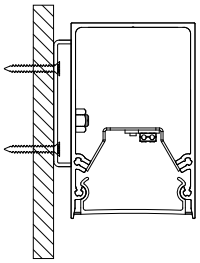
DIRECT



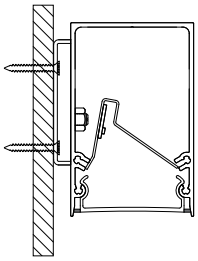
DMB - Drywall mounting bracket



MMB - Mullion mounting bracket

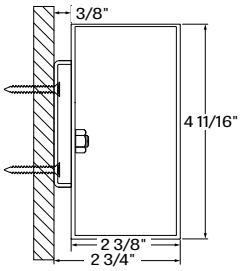


EPDO

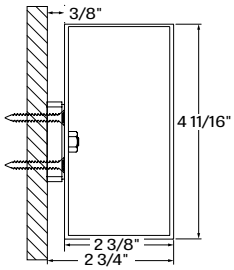


ASDO

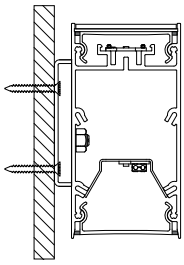
DIRECT/INDIRECT



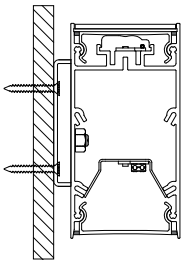
DMB - Drywall mounting bracket



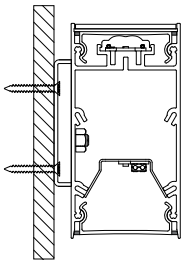
MMB - Mullion mounting bracket



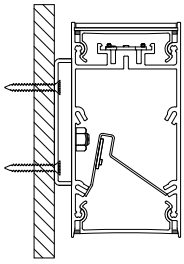
EPIO
EPDO



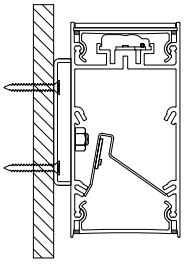
ASIO
EPDO



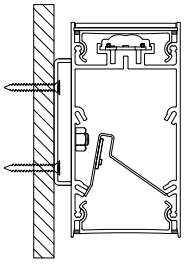
WIO2
EPDO



EPIO
ASDO



ASIO
ASDO



WIO2
ASDO

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WELL WELL

VIA 2 SEAL

WALL PATTERN

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CHROMAWERX - SOLA AND DUO

VIA WEATHER SERIES

LUMENWERX

Environment Options

The Via Weather Series offers four levels of protective sealing: Level 1, Level 2, Level 3, and Level 4.
Via 2 Seal is available with one environment option: Wet Suitable (WET) at Level 1.
For other levels of protective sealing, please see Via 3 Seal or Via 4 Seal spec sheets for Level 1 and Level 2, Via Wet spec sheets for Level 3, and Via Splash spec sheets for Level 4.

FEATURES	Wet Suitable (IP44) (WET)
Direct distribution	•
Direct/Indirect distribution	•
Indoor application that requires wipe down	•
Healthcare application	•
Outdoor application with restrictions: under canopy only	•
Continuous line of light over 12 ft	•
Water and dust resistant	•
Water and dust protected	X
Not suitable for extreme weather applications	•
Damp listed	•
Wet listed	X

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VIA 2 SEAL

WALL PATTERN

DIRECT, DIRECT/INDIRECT

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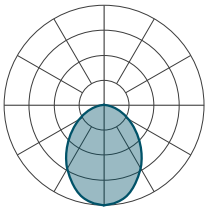
VIA WEATHER SERIES

LUMENWERX

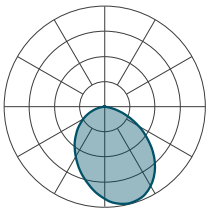
Photometrics

DIRECT



EPDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
350	1400	14.1	99
500	2000	20.7	97
750	3000	32.6	92



ASDO - Delivered Lumens at 40K at 80 CRI

LUMENS PER FOOT	TOTAL LUMENS PER 4FT	INPUT WATTS	LPW
350	1400	17.0	82
500	2000	25.2	79
750	3000	40.1	75

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VIA 2 SEAL

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WALL PATTERN

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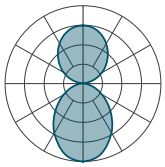
CHROMAWERX - SOLA AND DUO

VIA WEATHER SERIES

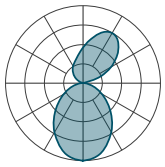
Photometrics

DIRECT/INDIRECT - WITH EPDO

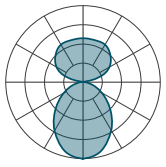
Delivered lumens at 40K at 80 CRI for all optics.



EPDO - EPIO



EPDO - ASIO

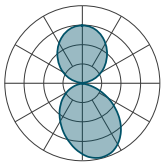


EPDO - WIO2

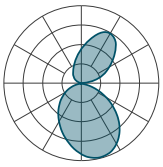
LM/FT		NOMINAL LM/4FT		TOTAL LM/4FT	INPUT WATTS	LPW
D	I	D	I			
EPDO	**EPIO**					
	350		1400	2800	28	100
350	500	1400	2000	3400	34.7	98
	750		3000	4400	46.7	94
	350		1400	3400	34.7	98
500	500	2000	2000	4000	41.3	97
	750		3000	5000	53.3	94
	350		1400	4400	46.7	94
750	500	3000	2000	5000	53.2	94
	750		3000	6000	65.3	92
EPDO	**ASIO**					
	350		1400	2800	27.5	102
350	500	1400	2000	3400	34	100
	750		3000	4400	45.6	97
	350		1400	3400	34.2	100
500	500	2000	2000	4000	40.6	99
	750		3000	5000	52.2	96
	350		1400	4400	46.1	95
750	500	3000	2000	5000	52.6	95
	750		3000	6000	64.2	94
EPDO	**WIO2**					
	350		1400	2800	25.9	108
350	500	1400	2000	3400	31.4	108
	750		3000	4400	41.3	107
	350		1400	3400	32.5	105
500	500	2000	2000	4000	38	105
	750		3000	5000	47.9	105
	350		1400	4400	44.4	99
750	500	3000	2000	5000	50	100
	750		3000	6000	59.8	100

DIRECT/INDIRECT - WITH ASDO

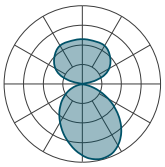
Delivered lumens at 40K at 80 CRI for all optics.



ASDO - EPIO



ASDO - ASIO



ASDO - WIO2

LM/FT		NOMINAL LM/4FT		TOTAL LM/4FT	INPUT WATTS	LPW
D	I	D	I			
ASDO	**EPIO**					
	350		1400	2800	31	90
350	500	1400	2000	3400	37.7	90
	750		3000	4400	49.7	89
	350		1400	3400	39.2	87
500	500	2000	2000	4000	45.8	87
	750		3000	5000	57.9	86
	350		1400	4400	54.1	81
750	500	3000	2000	5000	60.7	82
	750		3000	6000	72.8	83
ASDO	**ASIO**					
	350		1400	2800	30.5	92
350	500	1400	2000	3400	37	92
	750		3000	4400	48.6	91
	350		1400	3400	38.7	88
500	500	2000	2000	4000	45.2	89
	750		3000	5000	56.7	88
	350		1400	4400	53.6	82
750	500	3000	2000	5000	60	83
	750		3000	6000	71.6	84
ASDO	**WIO2**					
	350		1400	2800	28.8	97
350	500	1400	2000	3400	34.4	99
	750		3000	4400	44.2	100
	350		1400	3400	37	92
500	500	2000	2000	4000	42.5	94
	750		3000	5000	52.4	95
	350		1400	4400	51.9	85
750	500	3000	2000	5000	57.4	87
	750		3000	6000	67.3	89

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VIA WEATHER SERIES

LUMENWERX

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.

Widespread Indirect Optic (WIO2)

The Widespread 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 offers an impressive 160° spread. WIO2 creates an even illumination for smooth brightness on the ceiling that can achieve uniformity ratios of up to 2:1. The WIO2 suits moderate climate environments.

Uniformity [max/min]

Based on 18' continuous runs, in a 20' x 40' room, 10' wall height

Mounting height from ceiling	Spacing (Center to center)		
	8'	10'	12'
24"	3.0	5.5	8.0
36"	2.0	3.0	4.5
48"	2.0	2.0	3.5

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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. LEDs are operated at reduced drive current to optimize efficacy and lumen maintenance.
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.

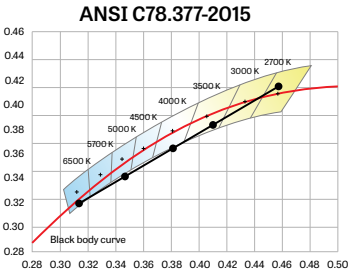
CHROMAWERX - TUNABLE WHITE

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 PSQ0) 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.



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 Wet Suitable (WET) option feature a weep hole situated in the end cap. Water and moisture that enters the fixture will be expelled through this hole.

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Intertek

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WELL WELL

VIA 2 SEAL

LUMENWERX

WALL PATTERN

DIRECT, DIRECT/INDIRECT

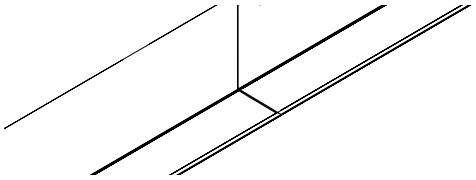
CHROMAWERX - SOLA AND DUO

VIA WEATHER SERIES

JOINING SYSTEM

All individual sections are joined together onsite using the ¼"-20 screws and nuts provided. The junction between two adjacent sections creates a continuous line of light without shadows.

Wet Suitable - WET



Continuous line of light

LUMINAIRE MAINTENANCE

LED arrays and drivers are accessible through the optical chamber and easily replaced.

ELECTRICAL

SOLA

SD1

Factory-set, adjustable output current LED driver with universal (120-277VAC) 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 120-277V AC 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 120-277V AC 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 (120-277VAC) 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.

PSQ0

Lutron T-Series 2-Channel tunable white drivers enable high-performance human centric lighting (HCL) applications. Digital control of color temperature (CCT) and intensity are achieved when used with the ESN T-Series tunable white controller as a part of a Lutron Quantum System.

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), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

MOUNTING OPTIONS

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

FINISH

Interior - 95%, reflective matte powder coated white paint
Exterior - Powder-coat paint in matte white or aluminum. Custom finishes are also available. Optional antimicrobial finish.

CONSTRUCTION

Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content
Interior brackets - Die-formed cold rolled sheet steel 18 gauge thick
Reflectors - Cold rolled steel 0.024" thick precisely die-formed, 95% reflective matte white painted
End cap - Die-cast aluminum (0.100" nominal)
End cap gasket - 1/16" closed-cell silicone foam
Drywall mounting bracket - 1/16" thick steel bracket with stainless steel PEM studs and sealing washers
Mullion mounting bracket - Die-cast aluminum

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VIA 2 SEAL

LUMENWERX

WALL PATTERN

DIRECT, DIRECT/INDIRECT

CHROMAWERX - SOLA AND DUO

VIA WEATHER SERIES

CERTIFICATIONS

ETL - WET environment option is rated for dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
IK05 - Impact resistance rated to IK05.

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.

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VIA 2 SEAL

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CHROMAWERX - SOLA AND DUO

VIA WEATHER SERIES

LUMENWERX

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.

Do you require a wall controller provided by Lumenwerx?

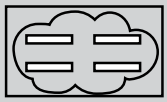
YES

DMX controller supplied 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. ✓

How many zones do you have?
A zone consists of one or more luminaires behaving identically.



1 Zone

2 Zones

1 - 4 Zones

5 or more Zones

Do you have more than 32 drivers in total?

To Calculate # of drivers

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

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 ans approval. Please contact our controls specialist at controls@lumenwerx.com
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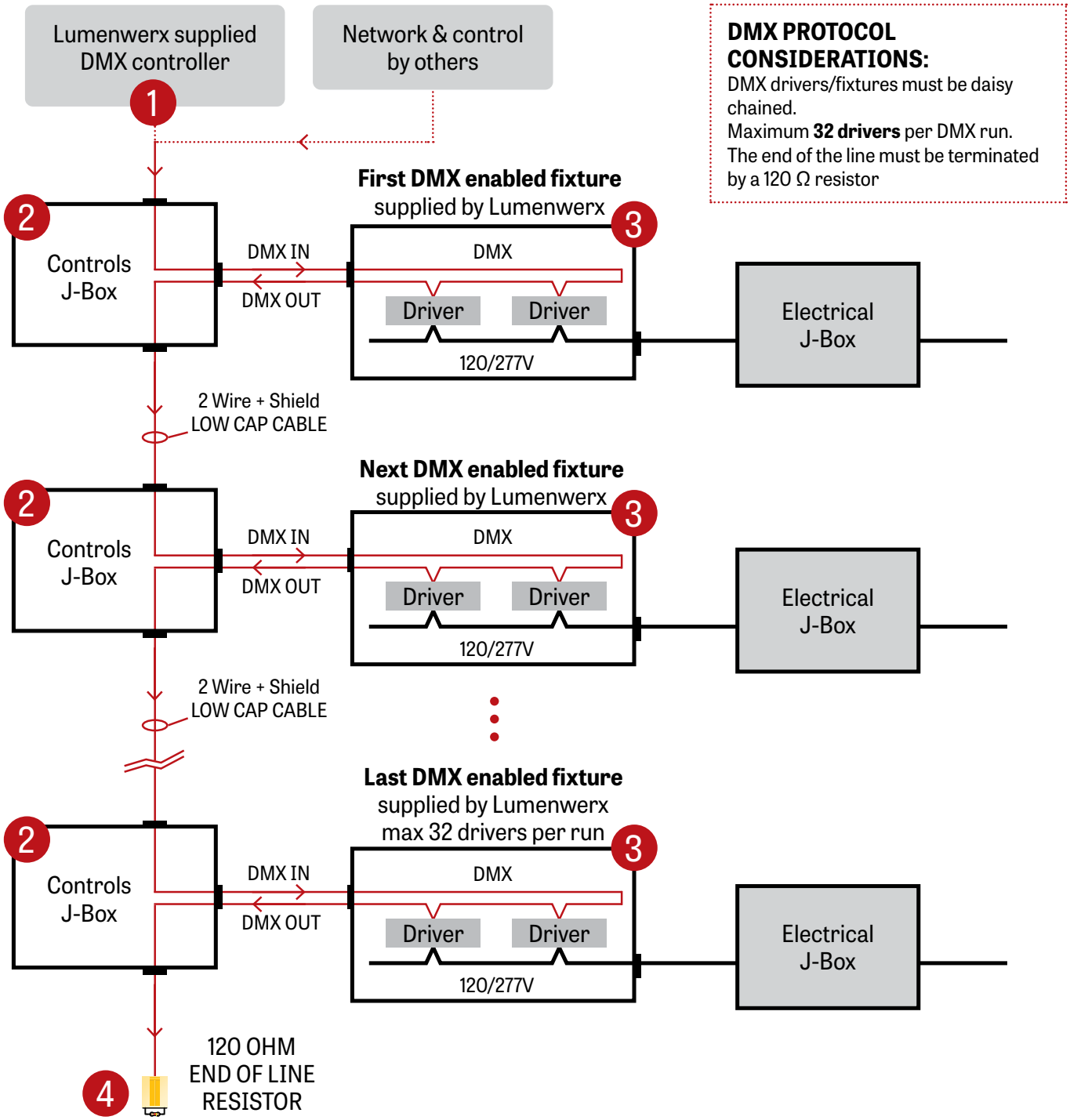
GENERIC DMX NETWORK ARCHITECTURE



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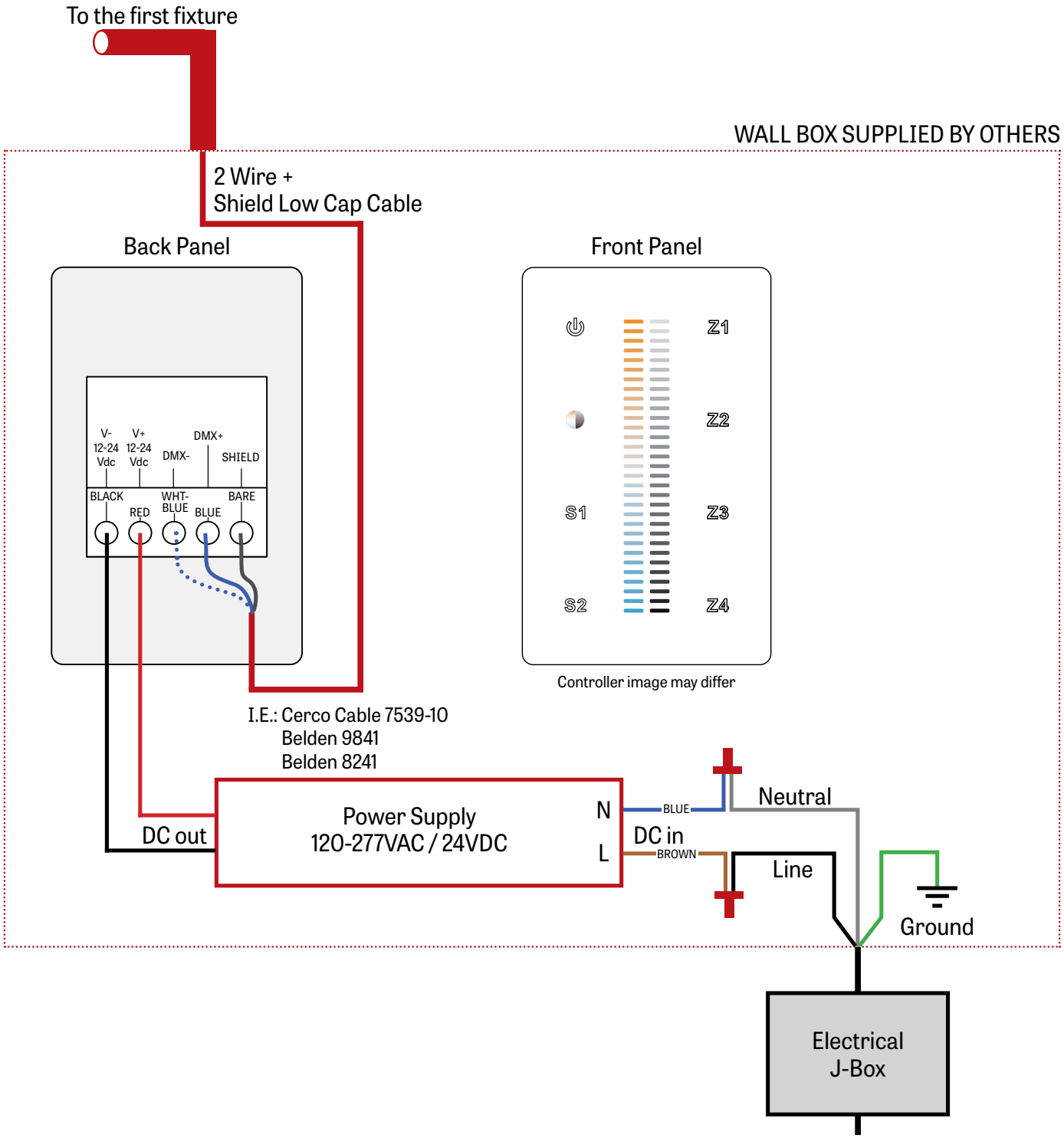
1 LUMENWERX SUPPLIED DMX CONTROLLER



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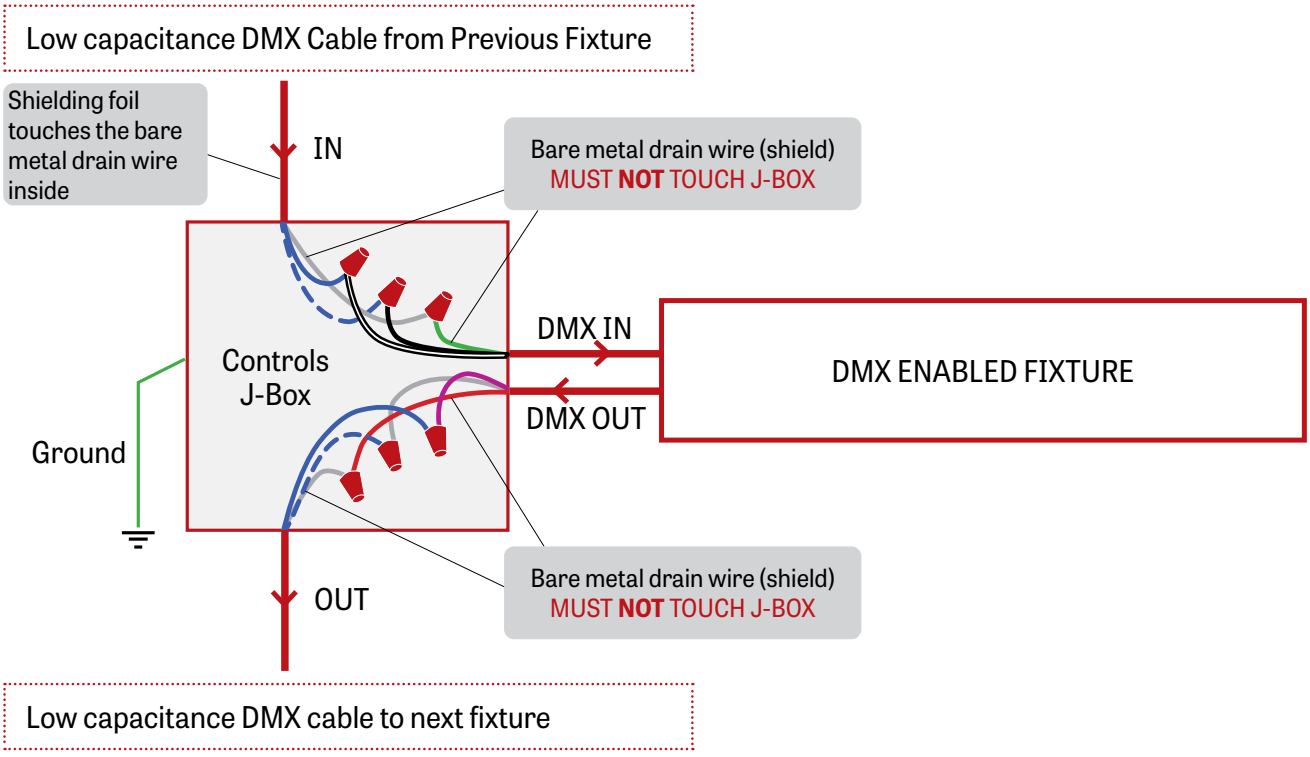
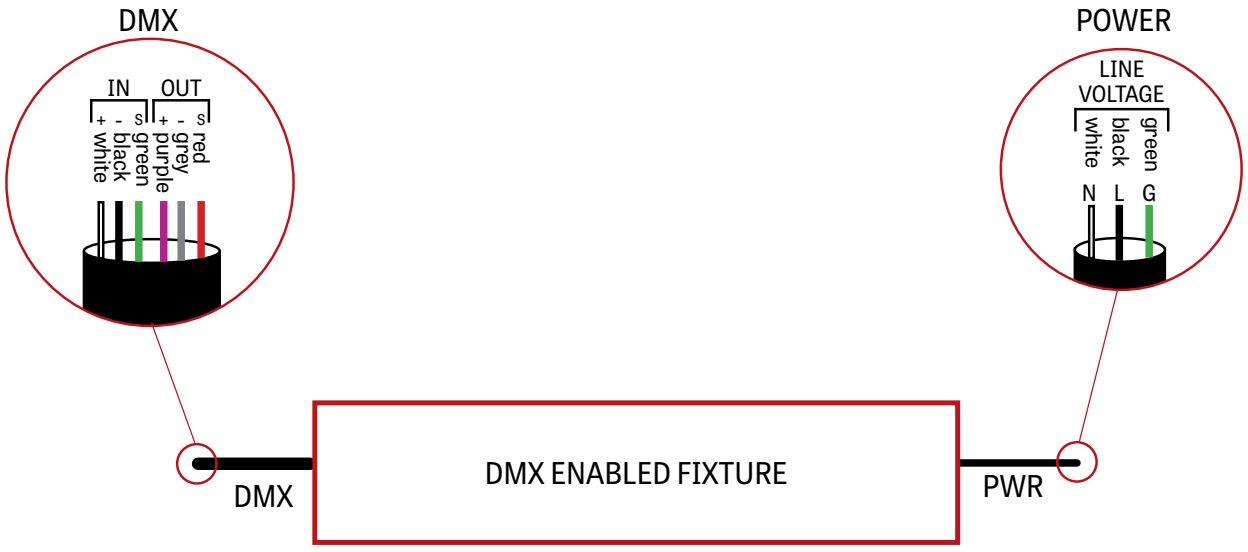
2 J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION PENDANT & WALL



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VIA WEATHER SERIES

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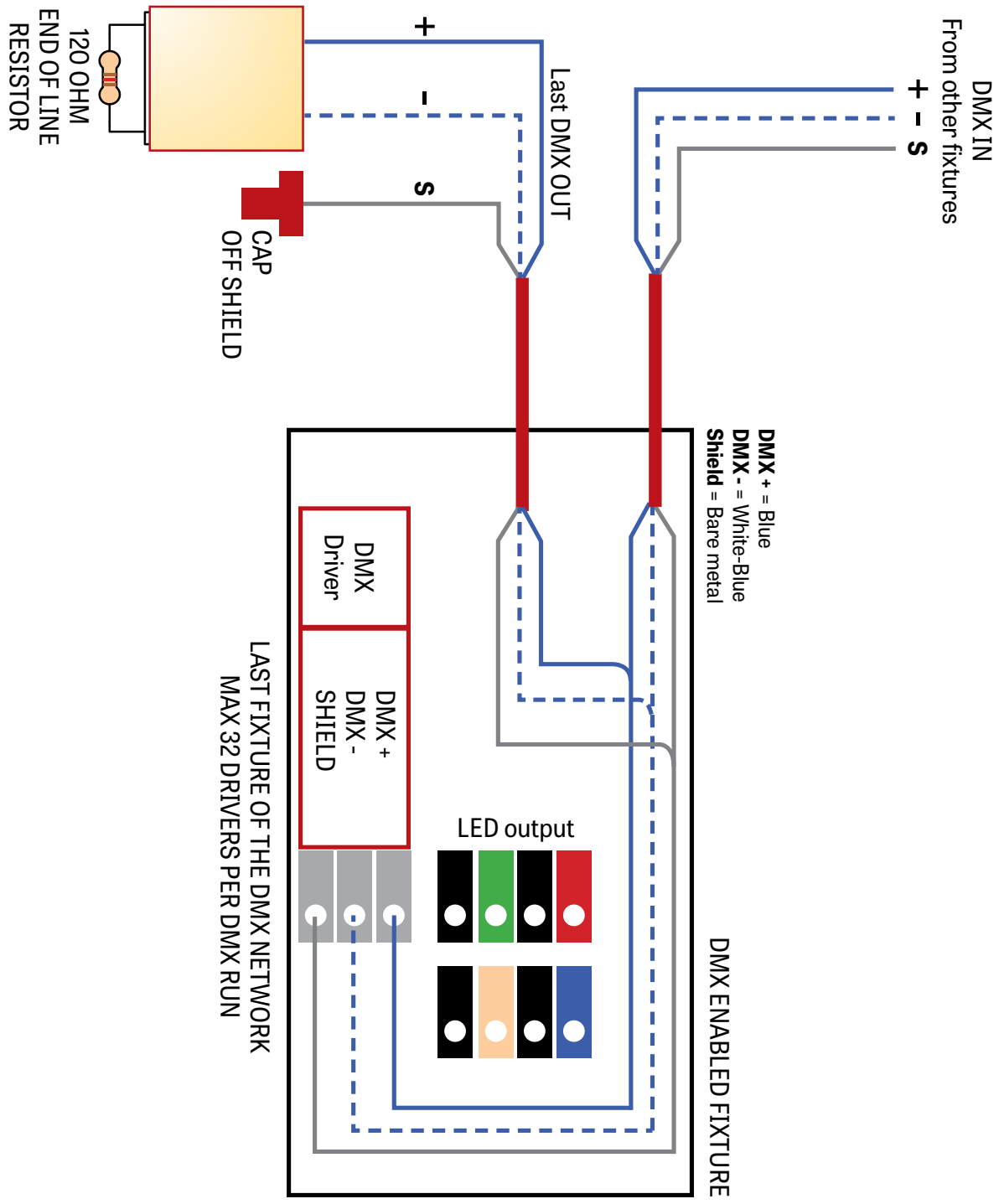
4 DMX LAST FIXTURE DETAIL



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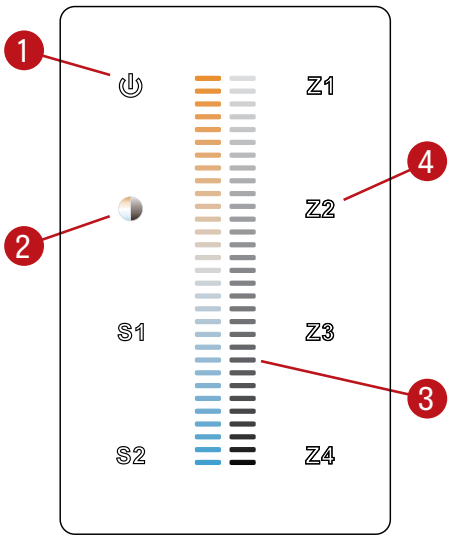
DMX WALL CONTROLLER

DUO 1-4 ZONE



(1) Power:	Use this button to turn ON or OFF the fixture.
(2) Brightness/CCT:	Use the color/brightness toggle button to choose between color/brightness. When Blue: brightness is selected, when Yellow: color is selected.
(3) Slider:	Depending on the mode chosen in step 2, the slider will allow the user to set desired color or brightness.
(4) Zone select:	Up to 4 zones can be selected either independently or together. Once selected, the commands will be sent to the zone identified by a Blue LED.

Default DMX Addresses:

1 Warm
2 Cool

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