

UBIK TROFFER

RECESSED
CHROMAWERX - SOLA AND DUO

LUMENWERX



Project: _____
Type: _____



DESCRIPTION

Sleek square form meets superb function in Ubik, a lighting family designed to provide a multitude of creative options. Ubik Troffer creates visual comfort with its low-glare dual optical chamber performance. The center channel features parabolic louvers, available in matte white or matte silver, that deliver a soft conical distribution. Side lenses provide indirect, reflected, soft diffused distribution using Tri-Flect technology. The fixture offers 60/40 and 40/60 light distribution options and meets the WELL Building Standard™ guidelines for UGR values. Ubik Troffer comes in Chromawerx Sola and Duo. For Static White solution, consult other spec sheet.



Order Guide

IC RATED

LUMINAIRE ID	SIZE	CENTER OPTIC	SIDE OPTIC	LIGHT SOURCE ¹	CRI	LUMEN PACKAGE (lm)			
UBIT	22		TFO						
UBIT - Ubik Troffer	22 - 2' X 2'	MWPL - Matte White Parabolic Louver MSPL - Matte Silver Parabolic Louver	TFO - Tri-Flect Optic	SOLA - Dim-to-warm single channel control 35K to 22K DUO - Tunable white 2-channel control 65K to 27K	80 - 80 CRI 90 - 90 CRI				
						2' X 2'	Low 2000	Med 3000	High 4000 ^{2,3}

² Not available with 90 CRI.
³ Not available with 40/60.

¹ Static white also available. Consult other spec sheet.

LIGHT DISTRIBUTION	VOLTAGE	DRIVER ⁴	ELECTRICAL	MOUNTING	FINISH	OPTIONS
			1C			
40/60 - 40%PL - 60% TFO 60/40 - 60% PL - 40% TFO	120 - 120V 277 - 277V UNV - 120V-277V	<u>SOLA</u> SD1 - Single 0-10V input <u>DUO</u> DMX ^{5,6} - DMX DDA ⁶ - DALI DT6 DDA8 ⁶ - DALI DT8 DD1 - Dual 0-10V input for CCT/intensity PSQ0 ⁶ - Lutron T-Series 1% Tunable White ⁴ PoE (Power-over-Ethernet) compatible. Consult factory for details. ⁵ For more information, see pages 7 to 12. ⁶ On-site commissioning is required.	1C - 1 circuit	GRD - Grid ceiling DF - Drywall trim kit	W - Matte white CF# - Custom finish, specify RAL#	FU120 - Fuse 120V FU277 - Fuse 277V FWC - Flexible whip cable (6' std) CP - Chicago Plenum NA - None

Accessories

Optional, order separately

DMX WALL CONTROLLER ⁷

WCW - Wall controller white
WBW - Wall controller black

⁷ Available with DMX only. For more information, see pages 7 to 12, or consult factory.

UBIK TROFFER

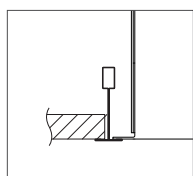
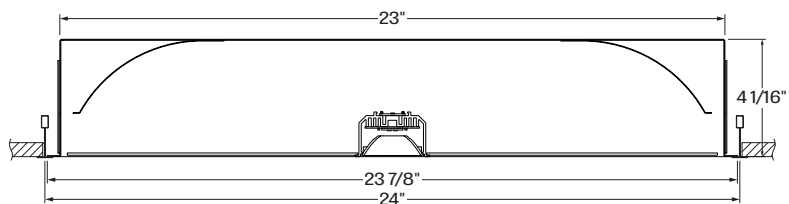
LUMENWERX

RECESSED

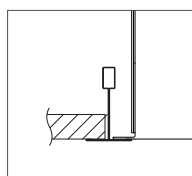
CHROMAWERX - SOLA AND DUO

Dimensions

GRID

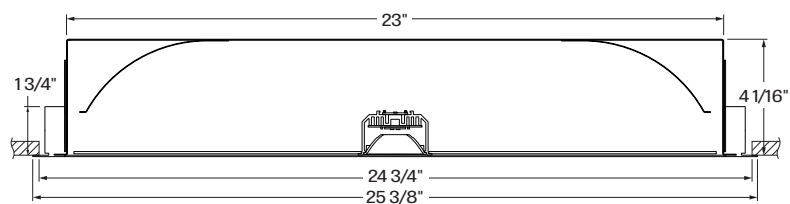


TB9
T-bar 9/16"



TB15
T-bar 15/16"

DRYWALL



UBIK TROFFER

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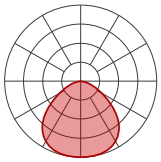
CHROMAWERX - SOLA AND DUO

LUMENWERX

Photometrics

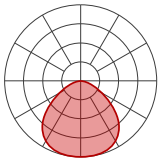
2' X 2' - SOLA

Delivered lumens at 80 CRI.



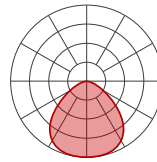
40/60 - 40% MWPL - 60% TFO

LUMEN OUTPUT	CCT	LUMENS		INPUT WATTS	LPW
		MWPL	TFO		
2000	3500	800	1200	19.6	102
3000	3500	1200	1800	31.6	95



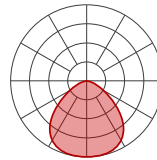
40/60 - 40% MSPL - 60% TFO

LUMEN OUTPUT	CCT	LUMENS		INPUT WATTS	LPW
		MSPL	TFO		
2000	3500	800	1200	21.2	95
3000	3500	1200	1800	32.9	91



60/40 - 60% MWPL - 40% TFO

LUMEN OUTPUT	CCT	LUMENS		INPUT WATTS	LPW
		MWPL	TFO		
2000	3500	1200	800	18.9	106
3000	3500	1800	1200	30.4	99
4000	3500	2400	1600	43.3	92

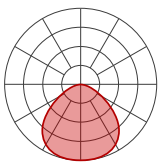


60/40 - 60% MSPL - 40% TFO

LUMEN OUTPUT	CCT	LUMENS		INPUT WATTS	LPW
		MSPL	TFO		
2000	3500	1200	800	20.1	99
3000	3500	1800	1200	32.4	92
4000	3500	2400	1600	46.3	86

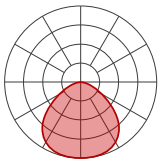
2' X 2' - DUO

Delivered lumens at 80 CRI.



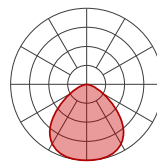
40/60 - 40% MWPL - 60% TFO

LUMEN OUTPUT	CCT	LUMENS		INPUT WATTS	LPW
		MWPL	TFO		
2000	2700	800	1200	20.5	98
	6500	800	1200	19.5	103
3000	2700	1200	1800	33.0	91
	6500	1200	1800	31.6	95



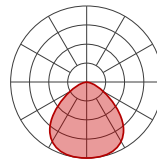
40/60 - 40% MSPL - 60% TFO

LUMEN OUTPUT	CCT	LUMENS		INPUT WATTS	LPW
		MSPL	TFO		
2000	2700	800	1200	22.3	90
	6500	800	1200	20.9	96
3000	2700	1200	1800	34.3	87
	6500	1200	1800	32.9	91



60/40 - 60% MWPL - 40% TFO

LUMEN OUTPUT	CCT	LUMENS		INPUT WATTS	LPW
		MWPL	TFO		
2000	2700	1200	800	19.7	102
	6500	1200	800	18.6	108
3000	2700	1800	1200	31.8	94
	6500	1800	1200	30.1	100
4000	2700	2400	1600	45.3	88
	6500	2400	1600	42.9	93



60/40 - 60% MSPL - 40% TFO

LUMEN OUTPUT	CCT	LUMENS		INPUT WATTS	LPW
		MSPL	TFO		
2000	2700	1200	800	21.0	95
	6500	1200	800	19.8	101
3000	2700	1800	1200	33.9	89
	6500	1800	1200	32.0	94
4000	2700	2400	1600	48.5	82
	6500	2400	1600	45.8	87

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LUMENWERX

Technical Specifications

OPTICS

Tri-Flect Optic (TFO)

Tri-Flect Optic (TFO) is the technology used in the Ubik Troffer where indirect light is sent off internal reflectors and then diffused through the dual side lenses to create visual comfort with low-glare.

Parabolic Louvers

Parabolic louvers emit soft brightness at the critical viewing angle delivering low-glare environments. They are the ideal solution for task lighting. UGR can change slightly based on the color of the louvers. Two matte finishes are available in white and silver. Parabolic louvers feature a low-glare conical distribution, thereby limiting ceiling brightness.



LIGHT SOURCE

Custom 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 operate 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.

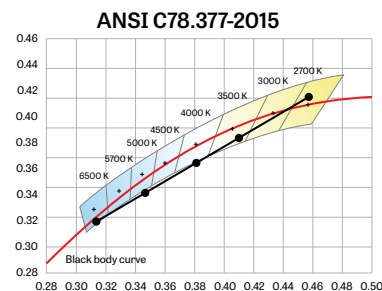
CHROMAWERX - TUNABLE WHITE

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.



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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 L04 meets WELL glare category (b-c-d)
- Feature 58 or L07 when 90CRI 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

ELECTRICAL

SOLA

SDI

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

Recessed fixtures can be mounted into exposed T-bar ceiling, as well as in drywall ceilings with trim kit.

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LUMENWERX

CONSTRUCTION

Housing - Die formed cold rolled sheet steel 20 gauge thick, matte white powder coating.

Reflectors - Cold rolled steel 0.030" thick precisely die formed, 95% reflective matte white painted.

Interior brackets - Die formed cold rolled sheet steel 20 gauge thick.

Center basket - Extruded aluminum 0.07" nominal, matte white and lens made in clear PMMA precisely formed into optical micro-structures forms.

Side lenses - Frost impact acrylic lens 88% transmissive.

Drywall kit - Extruded aluminum 0.07" nominal, matte white powder coating.

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - Powder-coat paint in standard white. Custom colors are also available.

WEIGHT

Ubik Troffer 2' X 2' - 23.1 lbs - 10.5 kg

CERTIFICATIONS

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

IC rated - Suitable for direct contact with insulation

Chicago Plenum - City of Chicago approved (CCEA)

WARRANTY

Lumenwerx provides a five-year limited warranty of 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.

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.

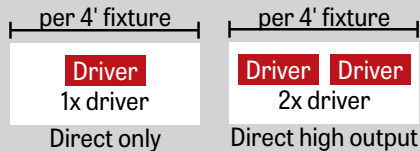


1 Zone



2 Zones

How to calculate the required number of drivers:



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.

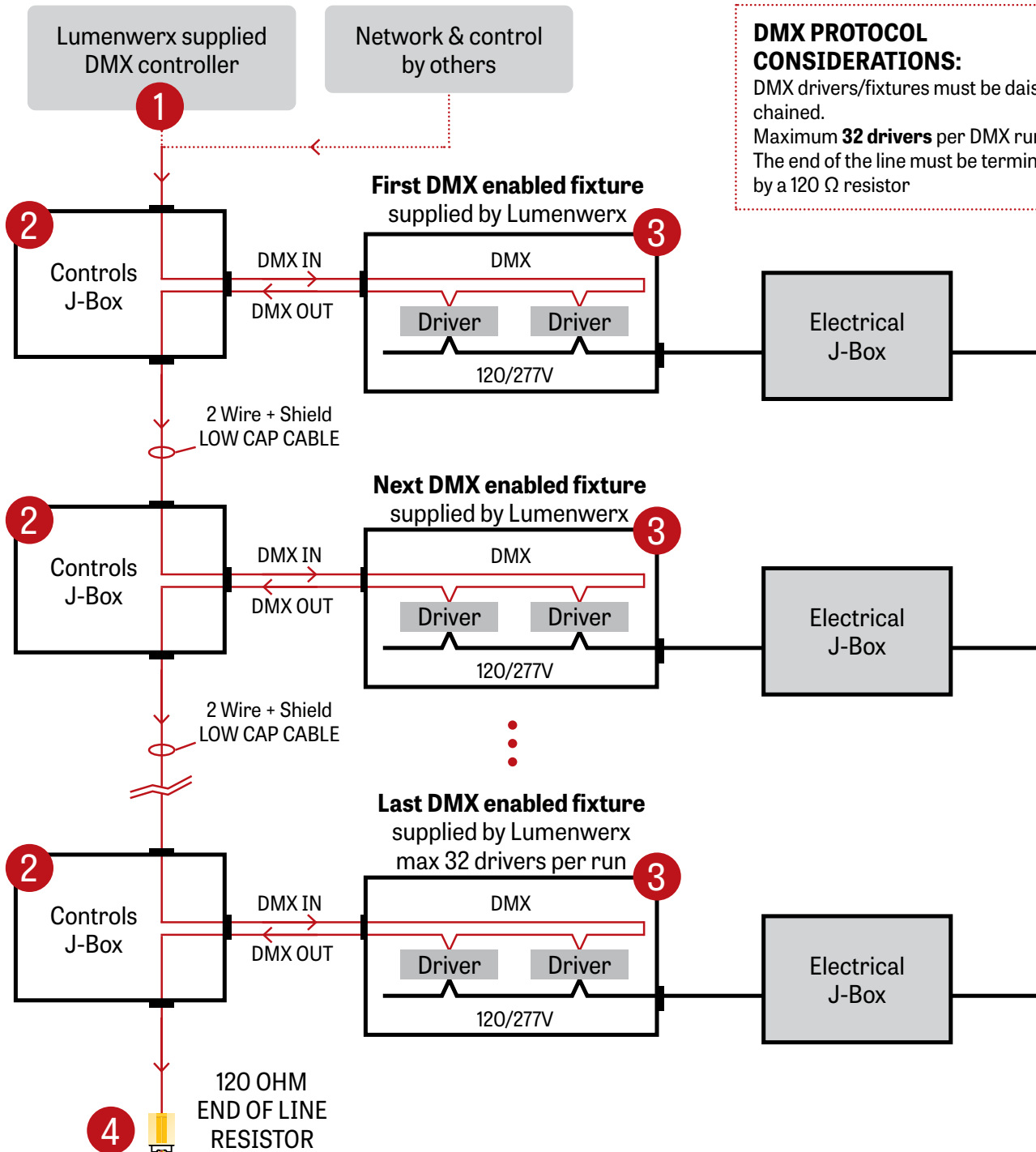
Refer to your DMX integrator for the installation. ✓

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. ✓

CHROMAWERX - SOLA AND DUO

GENERIC DMX NETWORK ARCHITECTURE



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

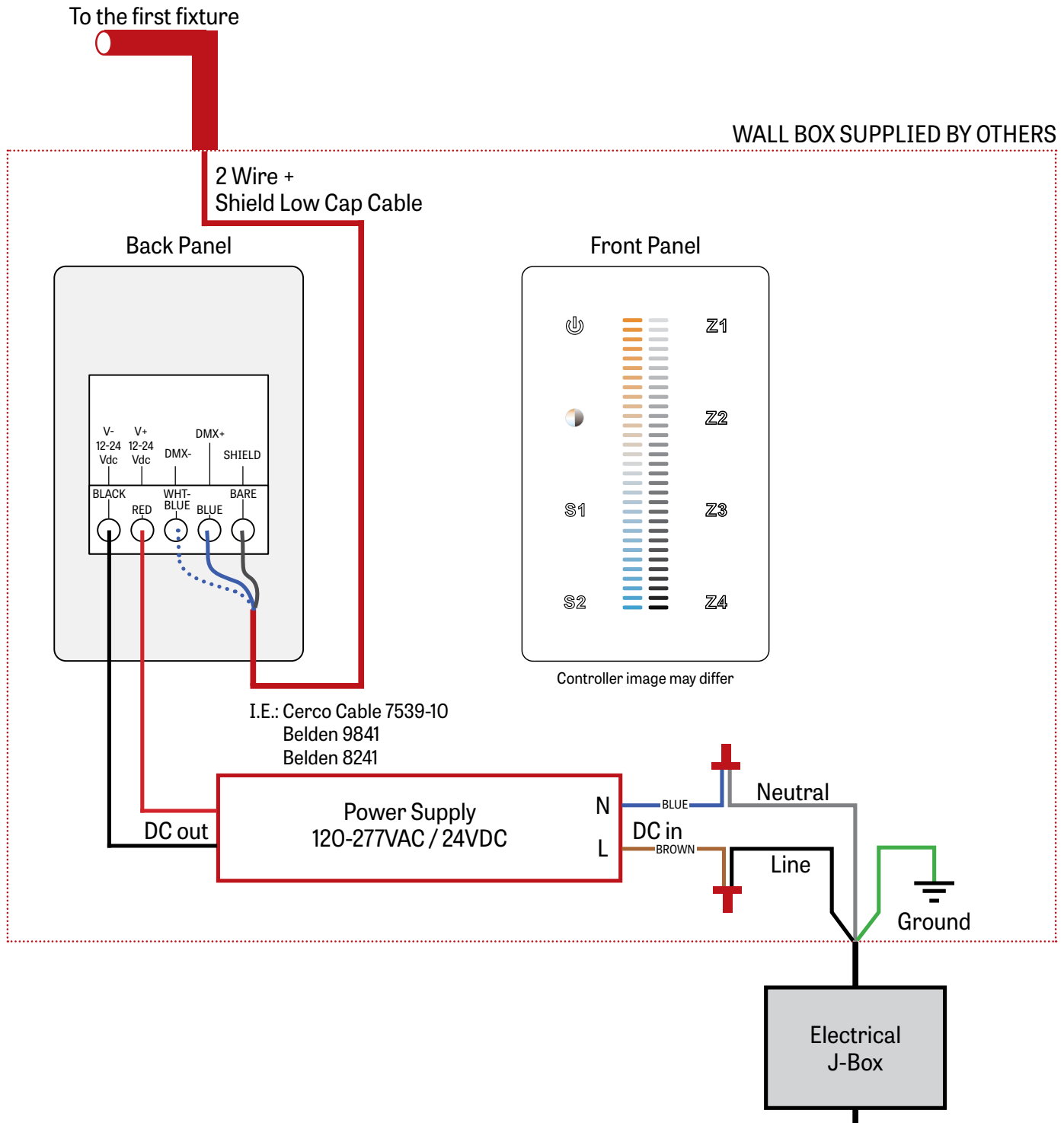
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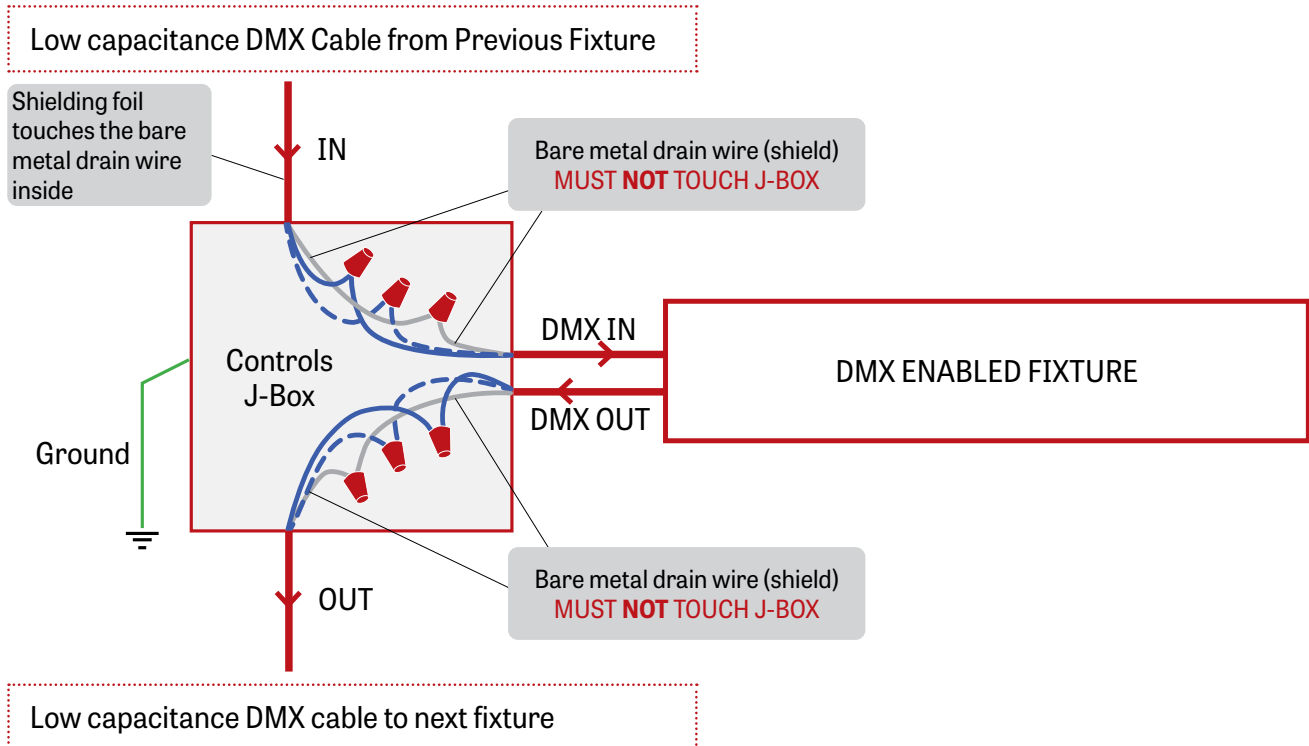
CHROMAWERX - SOLA AND DUO

LUMENWERX

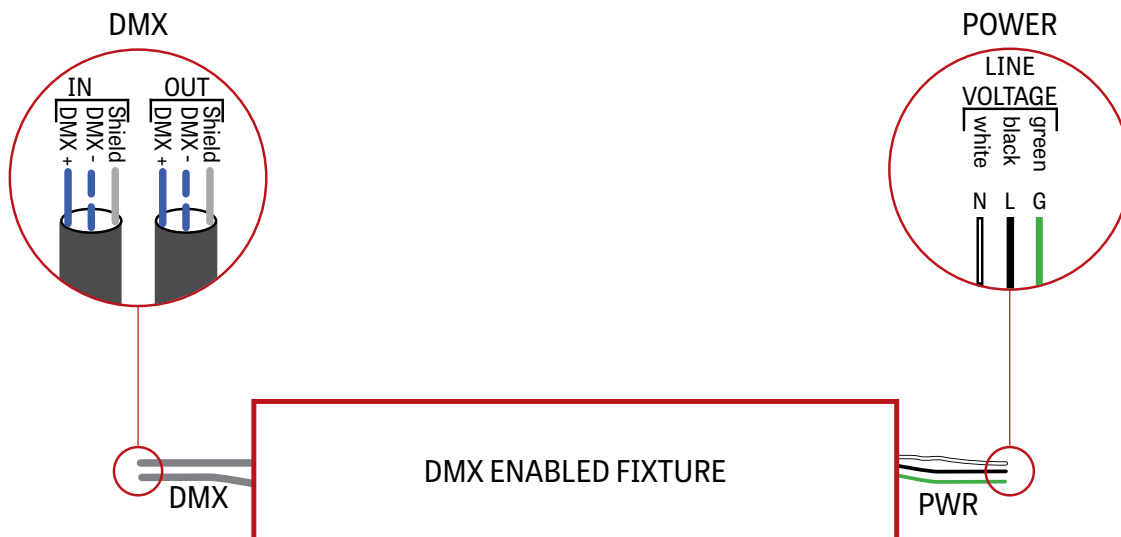
1 LUMENWERX SUPPLIED DMX CONTROLLER



2 J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION RECESSED & SURFACE



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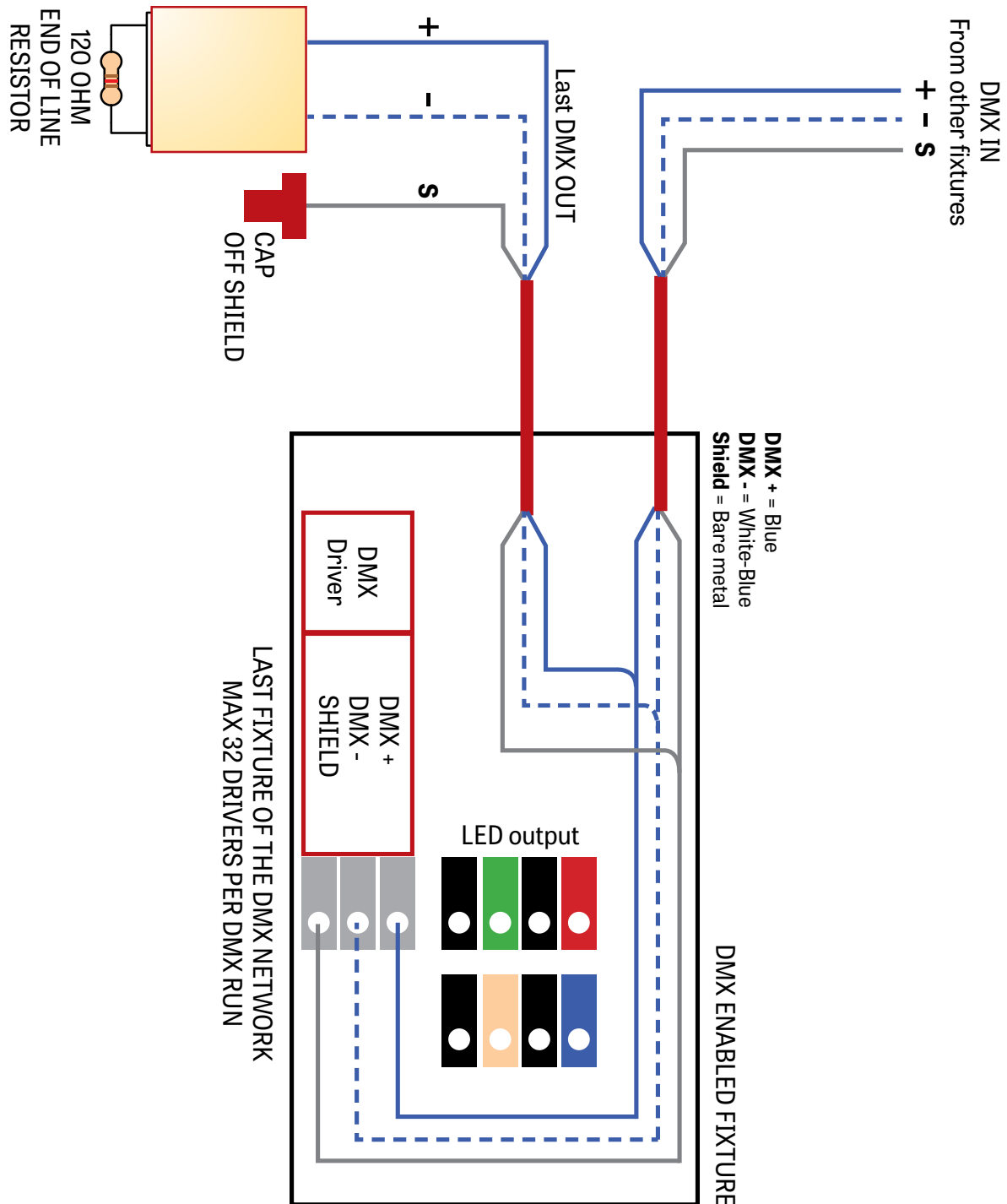
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CHROMAWERX - SOLA AND DUO

4

DMX LAST FIXTURE DETAIL



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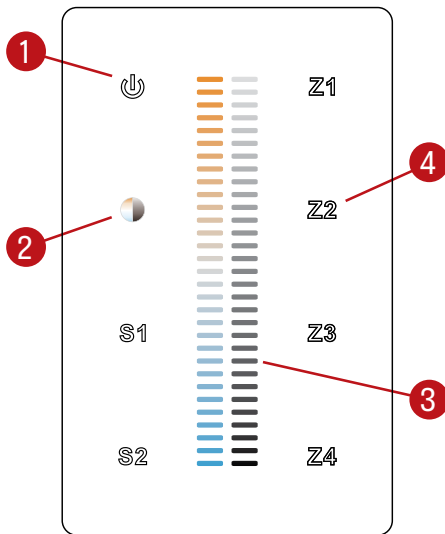
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CHROMAWERX - SOLA AND DUO

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