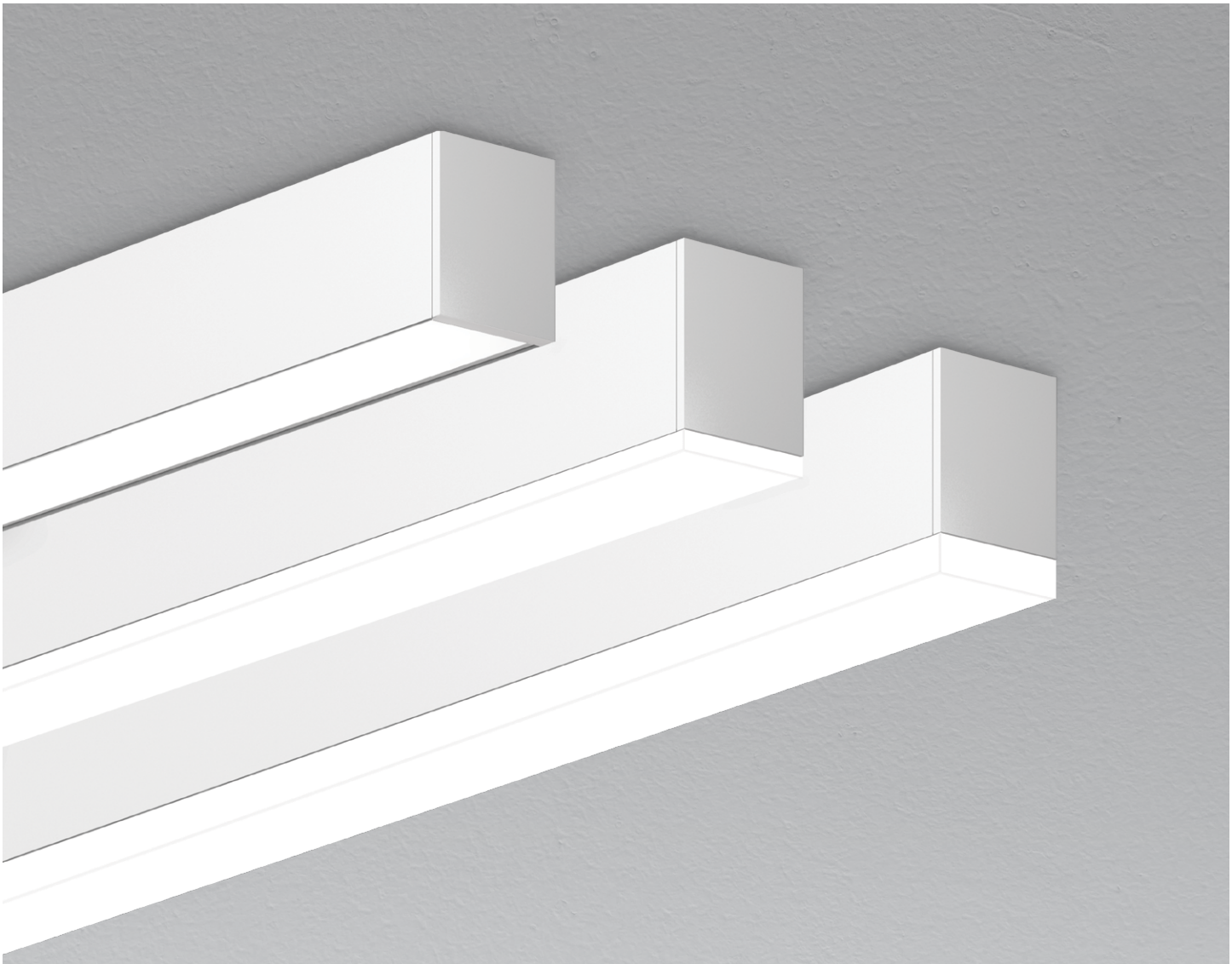
VIA 3 SURFACE

DIRECT

CHROMAWERX - QUADRO - RGBW



Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 3 Surface is offered with Lambertian, asymmetric, or wall wash optics.

DIRECT

HLO ARO2 WRO2

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Project: _____

_____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE [2]
VIA3S	**D**			
VIA3S - Via 3" Surface	**D** - Direct	**HLO** - High-Efficiency Lambertian Optic **ARO2** - Asymmetric Refractive Optic **WRO2** - Wall Wash Refractive Optic	**FH** [1] - Flush **0.5D** [1] - 0.5" drop **1.0D** [1] - 1.0" drop [1] • For HLO, specify FH, 0.5D, or 1.0D. • For ARO2 and WRO2, specify FH.	**QUADRO** - RGBW 4-channel control **RS** - Red solid **GS** - Green solid **BS** - Blue solid [2] Static white, BIOS, Chromawerx SOLA, and DUO also available. Consult other spec sheets.

WHITE CRI Specify NA for solid colors	WHITE COLOR TEMP. Specify NA for solid colors	OUTPUT WATTAGE [3]		LUMINAIRE LENGTH	VOLTAGE
80CRI - 80+ CRI **90CRI** - 90+ CRI **NA** - Not applicable	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K **NA** - Not applicable	HLO	**8WF** - 8 W/ft output **10WF** [4] - 10 W/ft output **12WF** [4] - 12 W/ft output	**#FT#IN** [5] - Specify nominal length (#) in 1' and/or 6" increments **Standard nominal lengths:** Single units: 4' to 12' Continuous runs: lengths over 12' [5] Minimum length is 4'.	**120V** - 120V **277V** - 277V **UNV** - 120V-277V
		ARO2 WRO2	**5WF** - 5 W/ft output **7WF** [4] - 7 W/ft output		
		[3] See page 3 for dedicated white channel lumen outputs. [4] Not available with solid colors.			

DRIVER [6]	ELECTRICAL	MOUNTING	FINISH	OPTION
	1C			
QUADRO **DMX** [7,8] - DMX Solid colors **D1** - 1% 0-10V **DA** [8] - DALI [6] PoE (Power-over-Ethernet) compatible. Consult factory for details. [7] For more information, see pages 6 to 11. [8] On-site commissioning is required.	**1C** - 1 circuit	**DRC** - Drywall ceiling **GRD** - Grid ceiling	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**FU120** - Fuse 120V **FU277** - Fuse 277V **NA** - None

Accessories

Optional, order separately

DMX WALL CONTROLLER [9,10]
WC1W##FT - Single zone wall controller white **WC1B##FT** - Single zone wall controller black **WC2W##FT** - 3 zone wall controller white **WC2B##FT** - 3 zone wall controller black [9] Specify wire length (##) in feet. [10] Available with DMX only. For more information, see pages 6 to 11, or consult factory.

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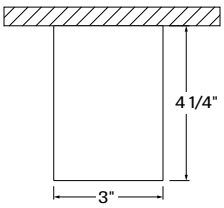
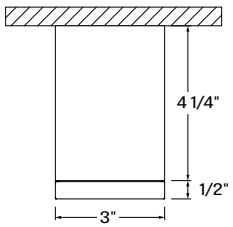
CHROMAWERX - QUADRO - RGBW

Dimensions

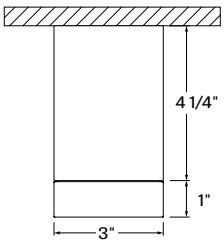
Flush Lens



0.5" Drop Lens [1]



1.0" Drop Lens [1]



[1] Drop lens positions available with HLO only.

Photometrics

Dedicated white channel lumen outputs are calculated with only white light on, and based on a 4' fixture at 3500K for all optics.

OPTIC	W/FT	LM/FT
HLO-FH	8	350
	10	425
	12	525
HLO-0.5D	8	350
	10	425
	12	525
HLO-1.0D	8	325
	10	400
	12	475

OPTIC	W/FT	LM/FT
ARO2	5	225
	7	300
WRO2	5	225
	7	300

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CHROMAWERX - QUADRO - RGBW

Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.10.

Asymmetric Refractive Optic (ARO2)

The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Wall Wash Refractive Optic (WRO2)

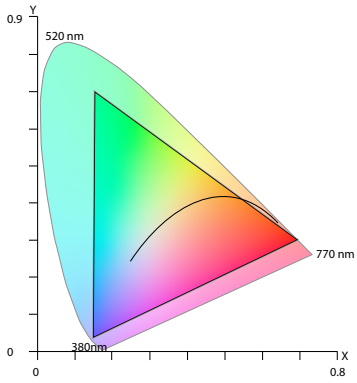
The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

LIGHT SOURCE

Custom linear array of mid-flux LEDs, comprised of an alternation of an RGB and a dedicated white LED. The white LED is used for when a static white CCT is required in the space. RGB LEDs are tightly binned for excellent color control between fixtures. The white 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 QUADRO

Chromawerx QUADRO is a four-channel control that operates an RGBW LED array and addresses the need for more expressive color in architectural applications. The DMX driver supports familiar programming tools for both dynamic multi-hued color and precise white color point control. While a typical user interface will be a DMX controller by others, Lumenwerx also offers a simple control station for stand-alone color changing applications.



The above diagram overlays the full gamut of colors attainable with the RGBW on top of the CIE 1931 color space. Any color point inside of the triangle can be obtained by setting the correct output levels for each of the individual red, green, blue, and white channels.

LUMINAIRE LENGTH

Via 3 is available in standard lengths of 4' 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 4', and can be ordered in 1' and/or 6" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that 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.

ELECTRICAL

DMX

Factory-set, adjustable output current, multi-channel LED driver with universal (120-277 VAC) input. Using DMX wall controls (optionally supplied by Lumenwerx) or an existing DMX control system, four channels of LEDs (Red/Green/Blue/White) are independently adjustable. Each DMX driver has multiple output channels that can be independently addressed at the factory or on-site using built-in RDM (Remote Device Management) functionality. Dimming range from 100%-0%. At maximum driver load, efficiency<89%, PF>0.9, THD<20%.

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.

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CHROMAWERX - QUADRO - RGBW

MOUNTING

Fixtures can be mounted directly to T-bar, drywall and hard surface ceilings, hardware supplied by others. Long runs require a minimum of 6" from the vertical wall.

FINISH

Interior: 95%, reflective matte powder coated white paint
Exterior: Matte white, matte black or aluminum powder coating. Custom finishes are also available.

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content
Interior brackets: Die-formed cold rolled sheet steel
Joining system: Die-cast zinc
Reflectors: Die-formed cold rolled steel, 95% reflective matte white painted
Lens: Acrylic
Drop lens: Extruded with glued end caps
End caps: Die-cast aluminum

WEIGHT

4': 11.12 lbs - 5.05 kg
8': 22.25 lbs - 10.1 kg
12': 33.48 lbs - 15.2 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.
Declare: LBC Red List Approved

WARRANTY

Lumenwerx provides a five-year limited warranty on electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.
Wall controllers are covered by the manufacturer warranty.

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CHROMAWERX - QUADRO - RGBW

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QUADRO 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.

How to calculate the required number of drivers:

per 4' fixture

Driver
1x driver

Less than 12.5W/ft, direct only

per 4' fixture

Driver Driver
2x driver

Above 12.5W/ft or for all direct/indirect fixture

To Calculate # of drivers

1 Zone | **2 to 3 Zones** | **4 or more Zones**

Do you have more than 32 drivers in total?

NO

Order a standard Lumenwerx wall controller type 1.

WALL CONTROLLER

WC1W - Single zone wall controller white
WC1B - Single zone 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. ✓

YES

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

NO

Order a standard Lumenwerx wall controller type 2.

WALL CONTROLLER

WC2W - 3 zone wall controller white
WC2B - 3 zone 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. ✓

YES

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
Additional cost and equipment will be required. ✓

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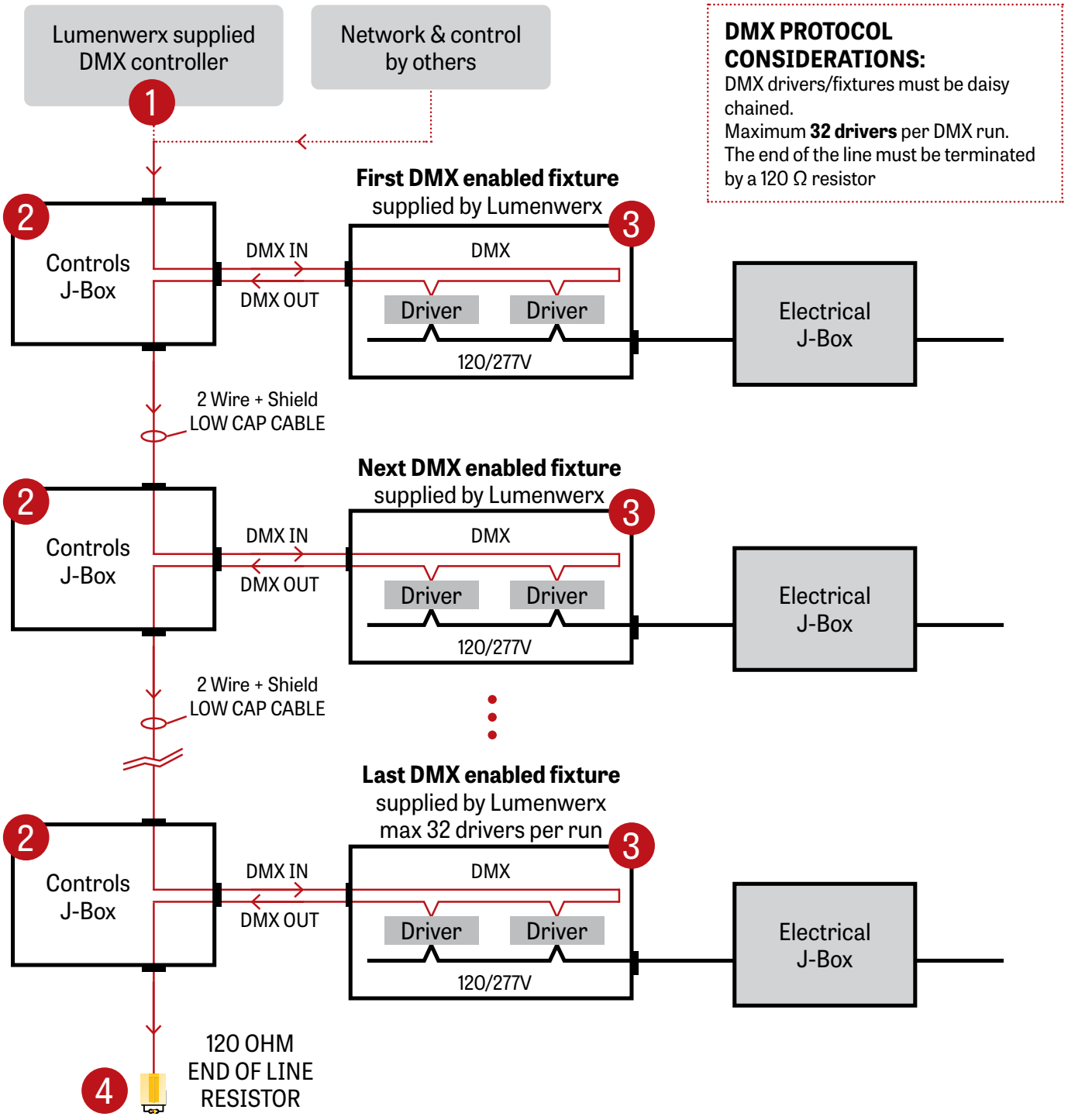
CHROMAWERX - QUADRO - RGBW

GENERIC DMX NETWORK ARCHITECTURE



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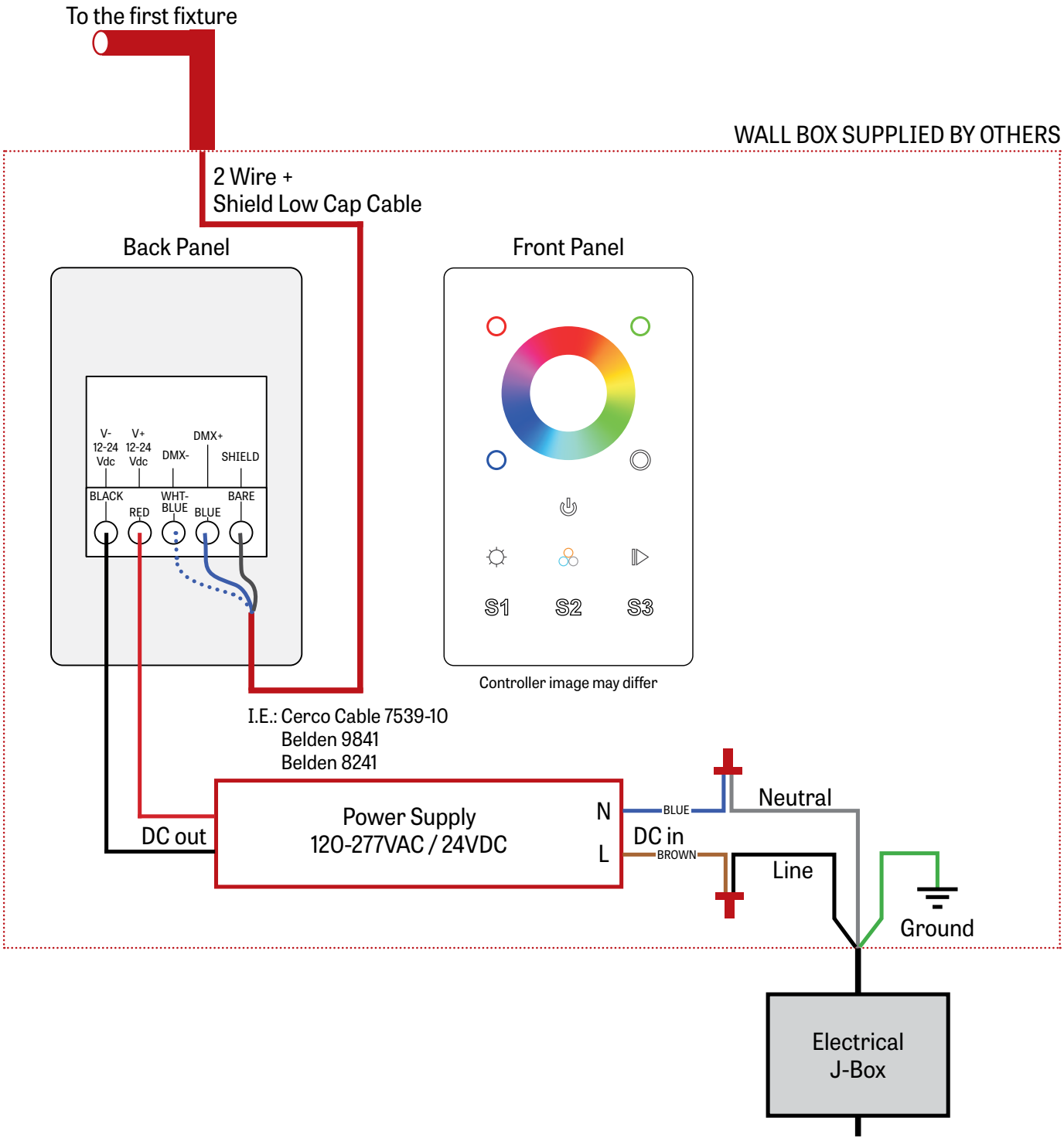
CHROMAWERX - QUADRO - RGBW

1 LUMENWERX SUPPLIED DMX CONTROLLER



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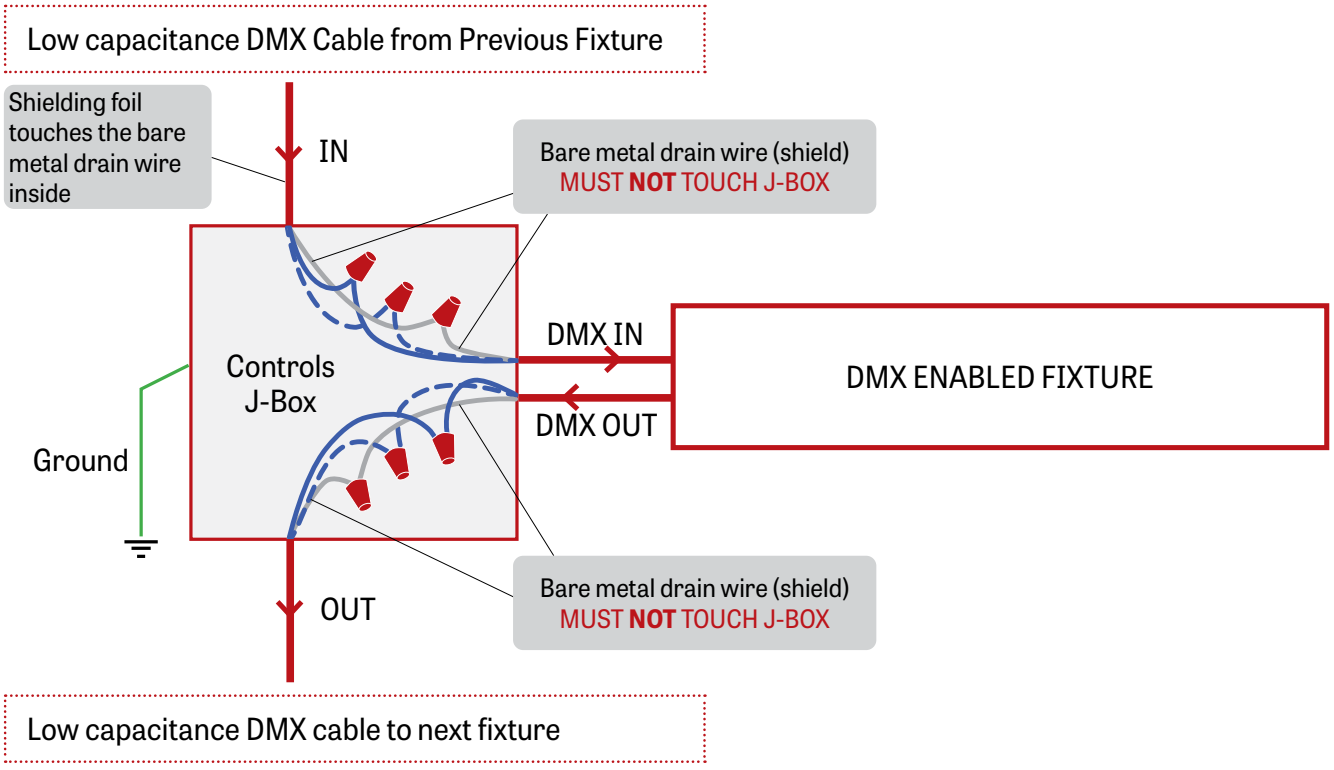
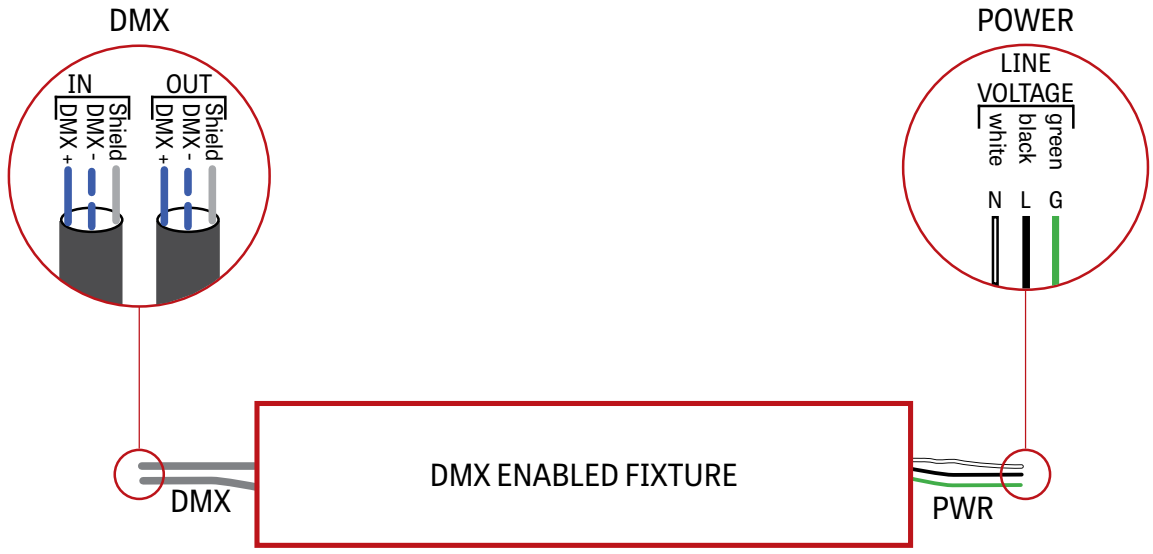
2 J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION RECESSED & SURFACE



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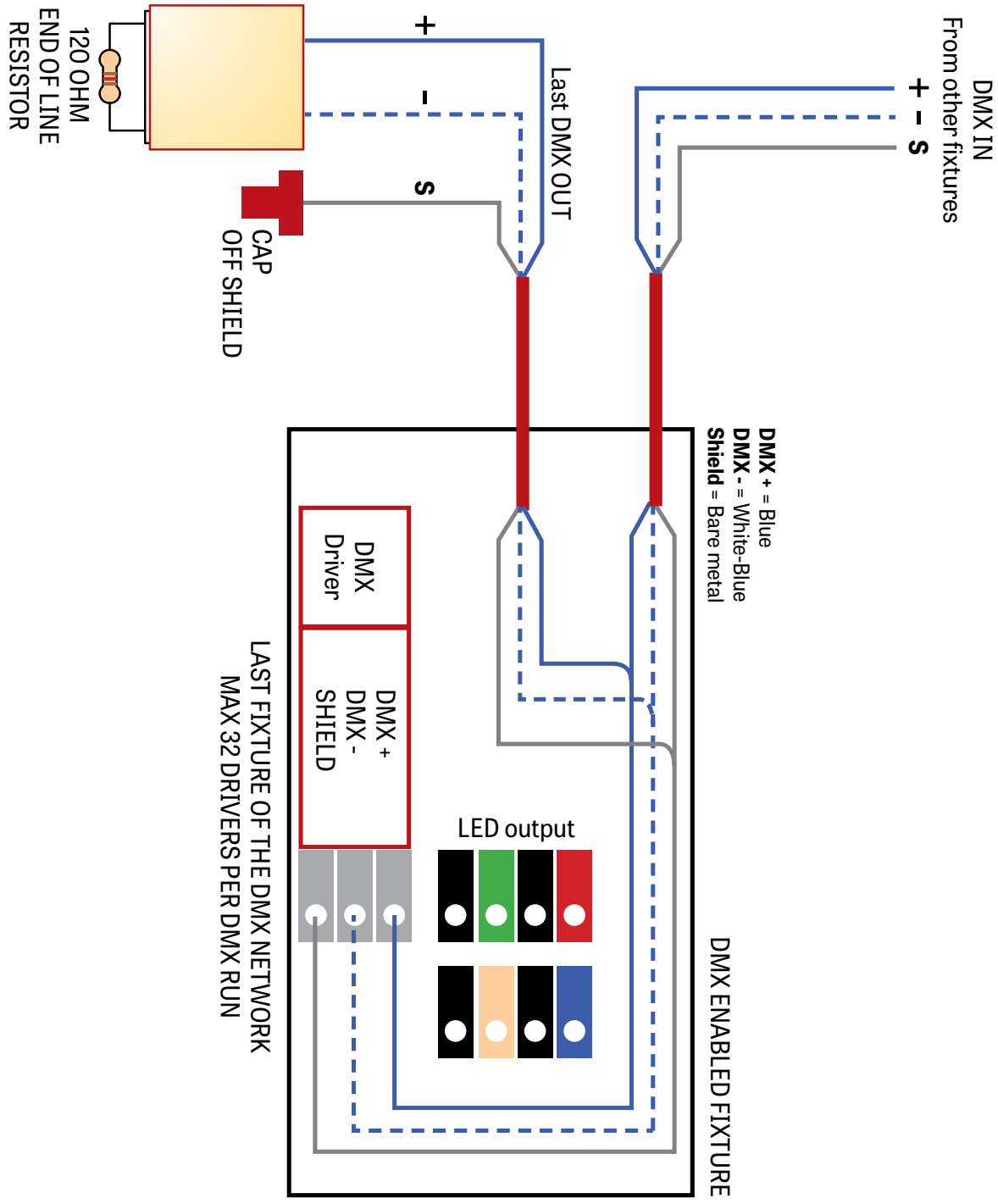
4 DMX LAST FIXTURE DETAIL



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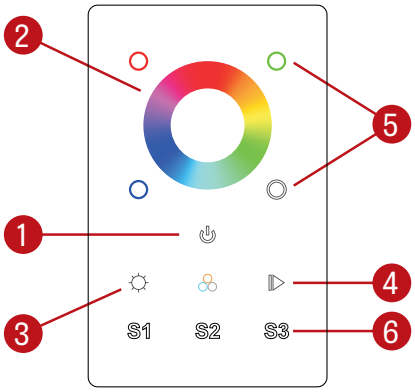
Lumenwerx

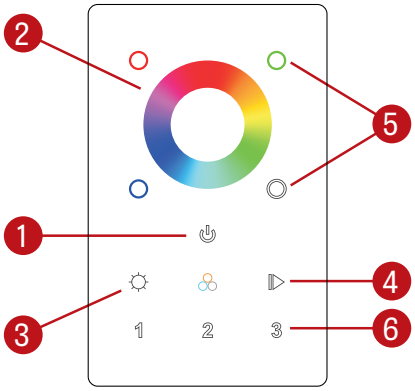
DMX WALL CONTROLLER

WC1



(1) Power:	Use this button to turn ON or OFF the RGBW fixture.
(2) Color Wheel:	The wheel is used to rapidly select a color (RGB colors only).
(3) Brightness (RGB):	Hold down this button to either increase or decrease the brightness of the current RGB selection. White will not be affected by the RGB brightness button.
(4) Color Cycle:	This button will start an animation, rotating between Reds Greens and Blues, the arrows allow the user to speed up or slow down the animation.
(5) Individual Colors:	By pressing and holding a color it will be possible to brighten or dim it. Quickly pressing a color will turn it OFF or turn it ON to its previous dim level. White: In order to activate or deactivate and dim the White channel, the White button needs to be used.
(6) Scenes:	By holding down one of the scenes button, the current color selection is saved. It can be later accessed by quickly pressing on one of the Scene buttons.

WC2



(1) Power:	Use this button to turn ON or OFF the RGBW fixture.
(2) Color Wheel:	The wheel is used to rapidly select a color (RGB colors only).
(3) Brightness:	Hold down this button to either increase or decrease the brightness of the current RGB selection. White will not be affected by the RGB brightness button.
(4) Color Cycle:	This button will start an animation, rotating between Reds Greens and Blues, the arrows allow the user to speed up or slow down the animation.
(5) Individual Colors:	By pressing a color it will be possible to brighten or dim that specific color. White: In order to activate or deactivate and dim the White channel, the White button needs to be used.
(6) Zone:	By holding down one of the zone buttons, a zone can be selected and controlled.

Default DMX Addresses:

1 Red
2 Green
3 Blue
4 White

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