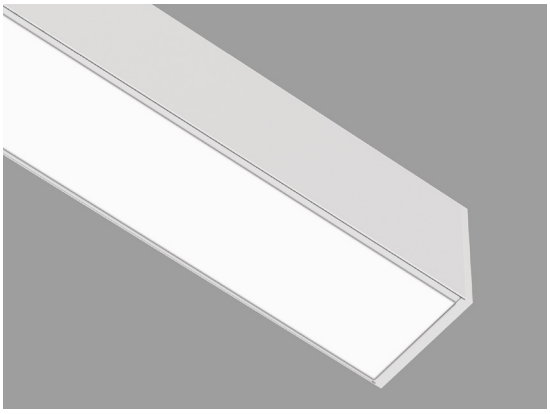
VIA 4 LED

WALL DIRECT ASYMMETRIC V. 2/
INDIRECT ASYMMETRIC

LUMENWERX
WWW.LUMENWERX.COM

CHROMAWERX QUADRO - RGBW

IMPORTANT: a qualified DMX integration consultant is required to ensure proper installation and function of any DMX network



Shown with ARO2 optics

DESCRIPTION

Via 4 features our Asymmetrical Lens Optic for smooth, comfortable and efficient illumination of vertical surfaces. Via 4 Asymmetric offers a wide range of lumen packages, color choices, electrical and controls options. It is part of the larger Via family, which includes visually coordinated recessed and mounted luminaires, as well as other light distributions, including wall washing and symmetric optics. Via 4 is an ideal vehicle for Chromawerx color tuning in education, office, and healthcare applications where modular luminaires are used.

PROJECT: _____

TYPE: _____

NOTES: _____

CHROMAWERX

ORDER GUIDE

VIA4WDI	ARO2	ARO	LED	
LUMINAIRE ID	**DIRECT OPTIC**	**INDIRECT OPTIC**	**LIGHT SOURCE**	**CHROMAWERX**
VIA4WDI - Via 4" wall direct/indirect	**ARO2** - Asymmetric Refractive Optic version 2	**ARO** - Asymmetric Refractive Optic	**LED** - High performance LED	**QUADRO** - Four-channel RGB with 3500K white **RS** - Red solid **GS** - Green solid **BS** - Blue solid

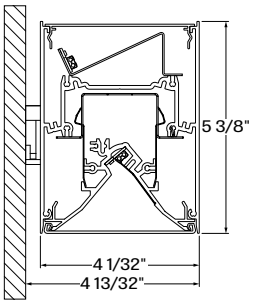
DIRECT OUTPUT WATTAGE	**INDIRECT OUTPUT WATTAGE**	**LUMINAIRE LENGTH**	**VOLTAGE**	**DRIVER**
2.5WF - 2.5 W/ft output (for solid colors only) **3WF** - 3 W/ft output (Quadro only) **6WF** - 6 W/ft output (Quadro only) **9WF** - 9 W/ft output (Quadro only)	**2.5WF** - 2.5 W/ft output (for solid colors only) **3WF** - 3 W/ft output (Quadro only) **5WF** - 5 W/ft output (Quadro only) **7WF** - 7 W/ft output (Quadro only)	Available sections - 4', 6', 8', 10' & 12' **#FT** - Nominal length in feet **(2' increments only)** Continuous run - For luminaires over 12' Minimum individual section 4'	**120** - 120V **277** - 277V	**DMX** - To specify see pages 4 to 9 **DA** - DALI (solid colors only) local on-site commissioning is required **0-10** - 0-10 (solid colors only)

1	DMB		
ELECTRICAL	**MOUNTING**	**FINISH**	**OPTION**
1 - 1 circuit	**DMB** - Drywall mounting bracket	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish specify RAL#	**FU** - Fuse

DMX WALL CONTROLS
To specify see pages 4 to 9

See page 2 for ordering code detailed information

CROSS SECTION



VIA4WDI - Wall asymmetric

Intertek

CHROMAWERX QUADRO - RGBW

DIRECT OPTIC

Asymmetric Refractive Optic V. 2 (ARO2) - The Lumenwerx Asymmetric Refractive Optic V. 2 (ARO2) has a directional Gaussian light distribution with peak intensity at 20° above nadir and 55° FWHM (Full Width at Half Maximum) beam angle. ARO2 uses a highly reflective finished reflector combined with a matte beam shaping diffusing film to create a smooth, effective downward component without shadows or hot spots. No external shielding is required. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving high luminous efficacy over 120 lumens per watt.

INDIRECT OPTIC

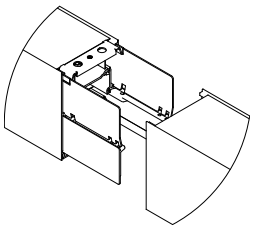
Asymmetric Refractive Optic (ARO) has a split light distribution: a modified lambertian distribution with peak intensity at nadir to one side and batwing with peak intensity at 40° to the other. ARO uses a matte finished reflector combined with a high-transmission diffusing film. A "visor" shields luminaire hardware from lateral viewing angles. ARO is also available in an indirect distribution.

LIGHT SOURCE - LED

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.

LUMINAIRE LENGTH

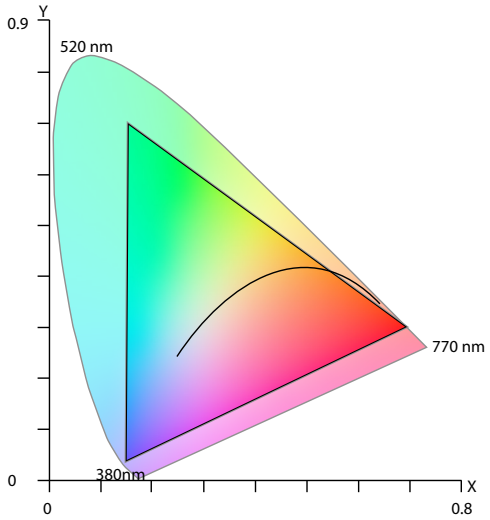
Via 4 is made up of standard 4, 6, 8, 10 and 12 foot sections that may be joined together to create longer continuous run lengths. Exact run length must be noted in the product code. The minimum individual section available is 4 feet, and continuous run lengths can be ordered in 2 foot increments.
All 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.



Joining system Via 4 direct/indirect

CHROMAWERX - RGBW

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.



CIE 1931 Chromaticity space

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.

ELECTRICAL

DMX

Factory-set, adjustable output current, multi-channel LED driver with universal (120-277VAC) 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%.

CHROMAWERX QUADRO - RGBW

MOUNTING OPTIONS

Fixtures may be horizontally mounted to the wall 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 - Matte white, matte black or aluminum powder coating.
Custom finishes are also available.

CONSTRUCTION

Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content
Interior brackets - Die formed cold rolled sheet steel 18 gauge thick
Joining system - Die cast zinc (0.95" nominal)
Reflectors - Flat rolled aluminum sheet 0.040" thick precisely die formed, 95% reflective matte white painted
End caps - Die cast aluminum (0.95" nominal)

WEIGHT

Via 4 4ft - 13.66lbs - 6.2kg
Via 4 8ft - 27.53lbs - 12.5kg
Via 4 12ft - 41.41lbs - 18.8kg

CERTIFICATION

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

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.
Wall controllers are covered by the manufacturer warranty.

CHROMAWERX QUADRO - RGBW

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	per 4' fixture
Driver	Driver Driver
1x driver	2x driver
Less than 12.5W/ft, direct only	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. ✓

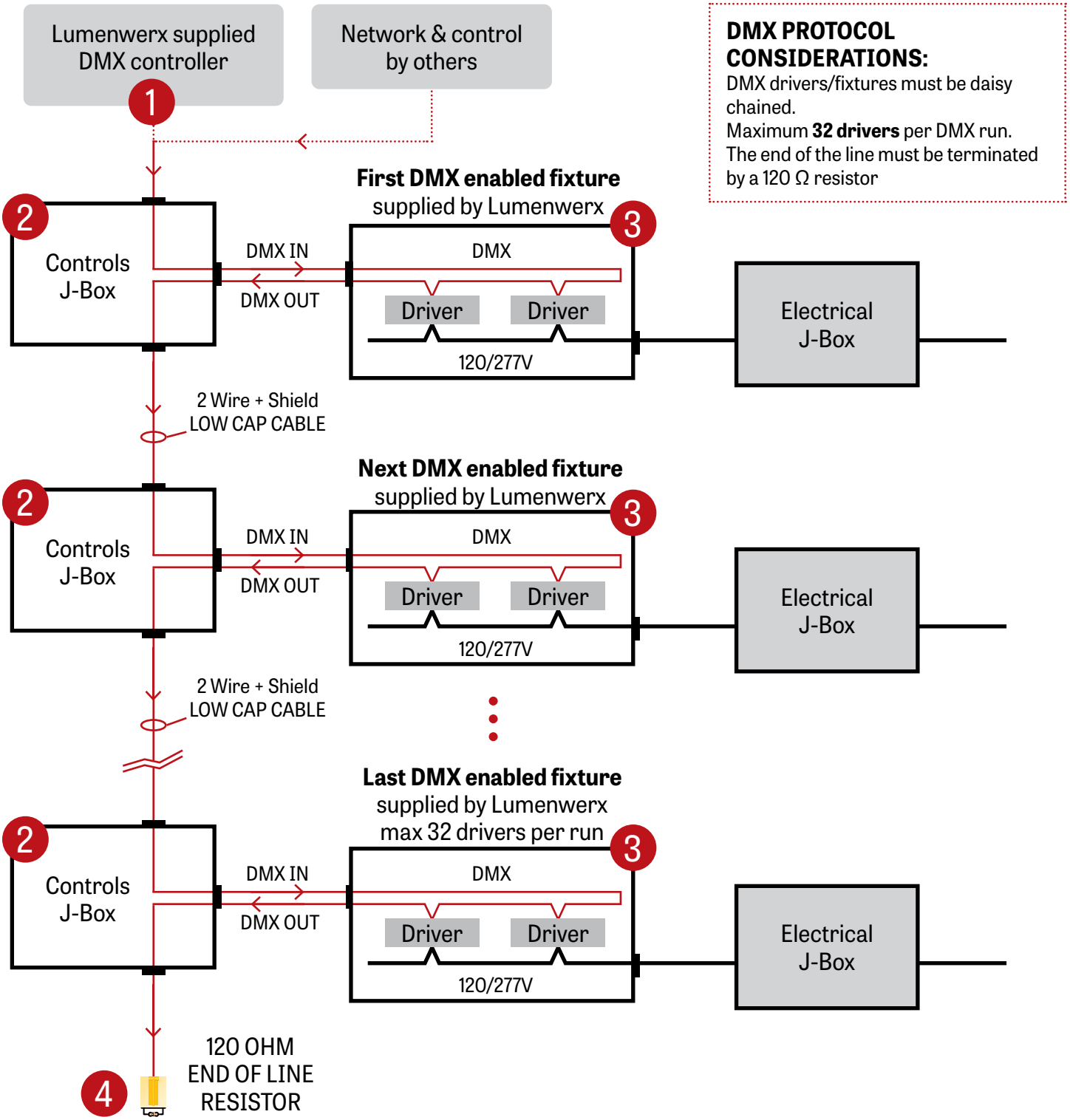
YES →

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. ✓

CHROMAWERX QUADRO - RGBW

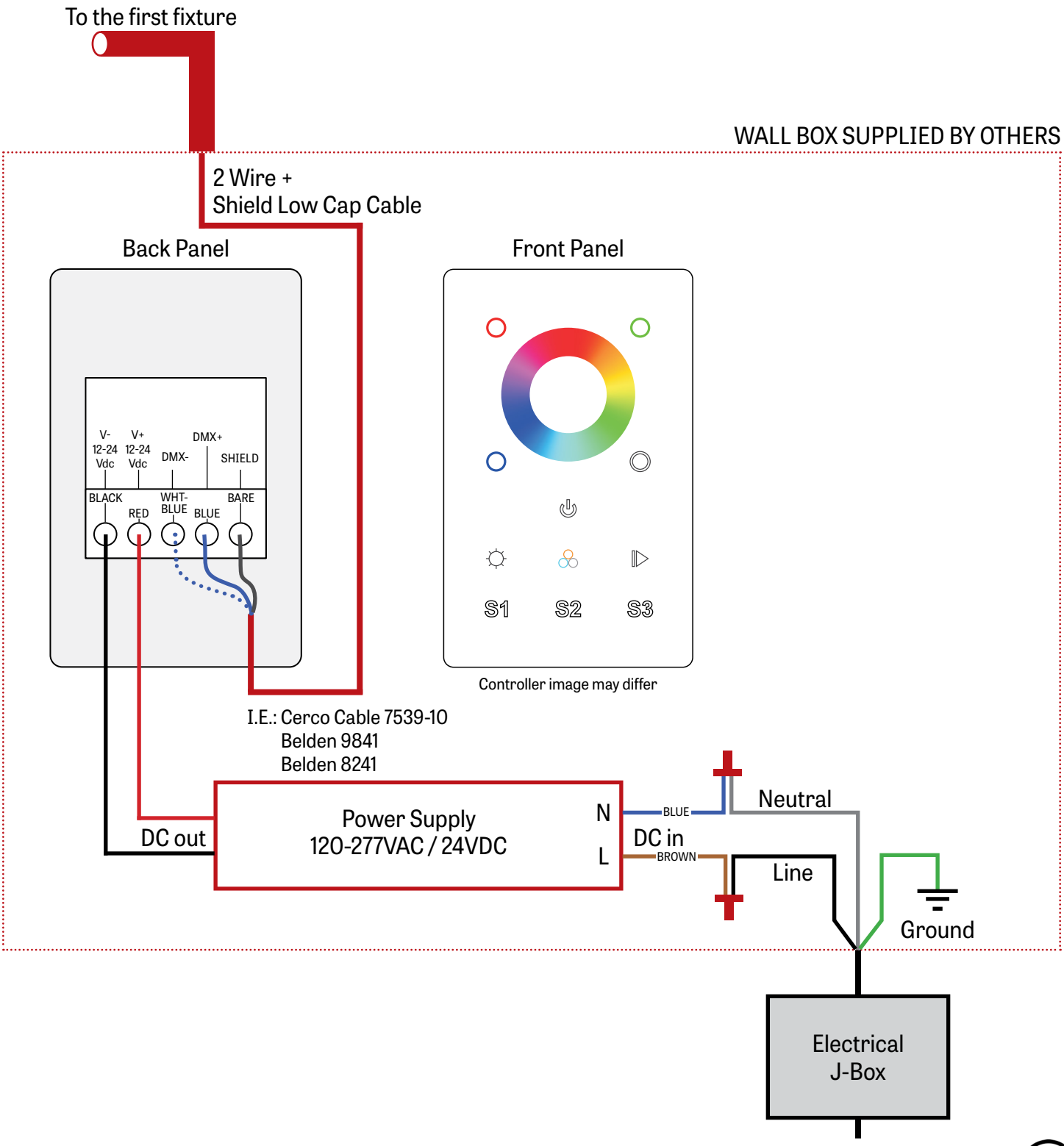
GENERIC DMX NETWORK ARCHITECTURE



DMX PROTOCOL CONSIDERATIONS:
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

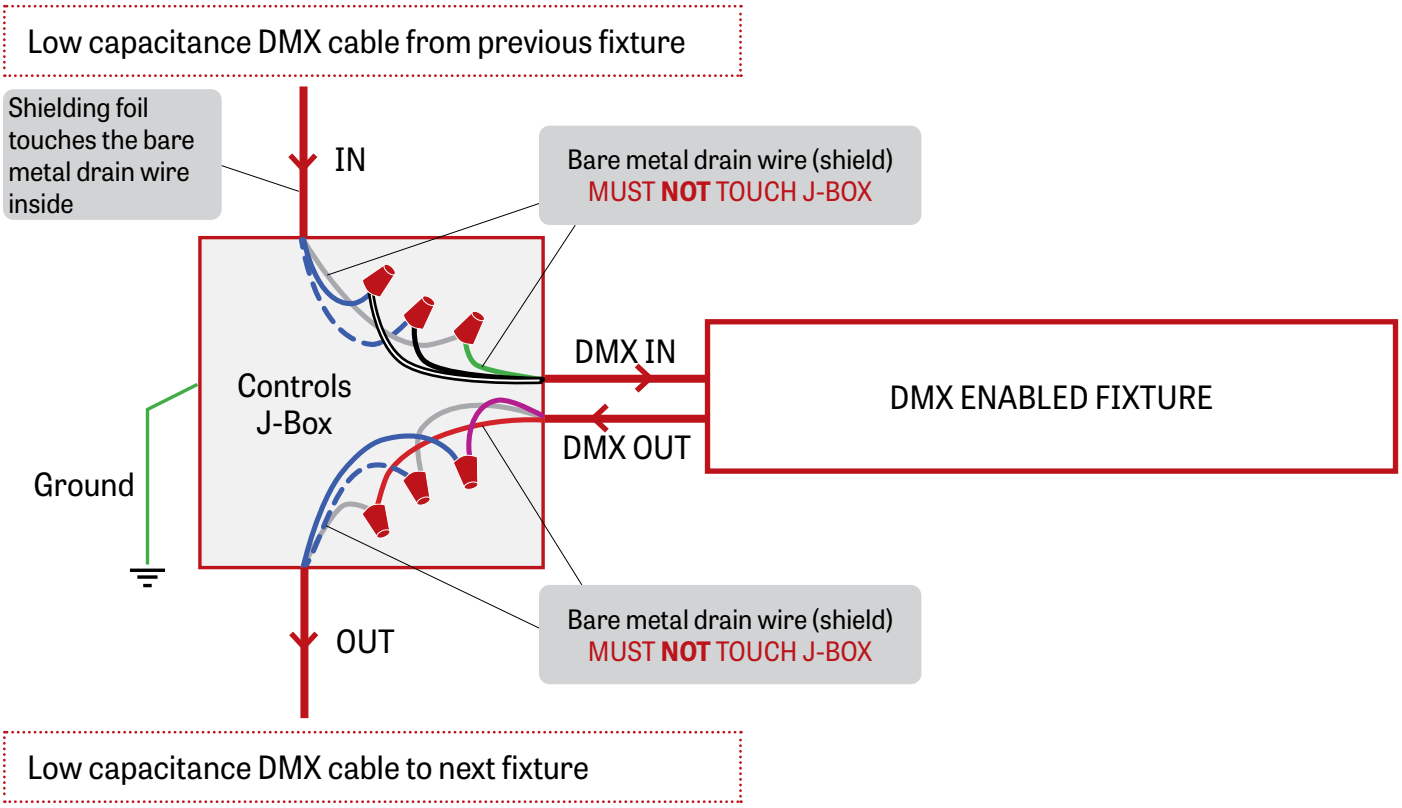
CHROMAWERX QUADRO - RGBW

1 LUMENWERX SUPPLIED DMX CONTROLLER

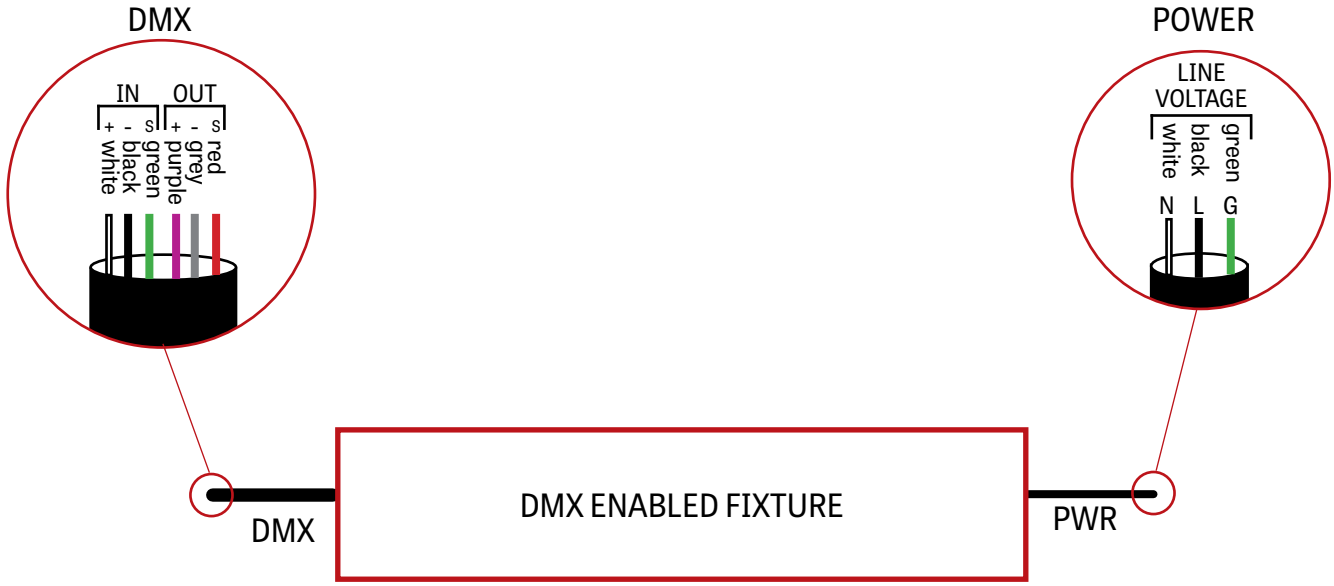


CHROMAWERX QUADRO - RGBW

2 J-BOX DMX DAISY CHAIN DETAIL

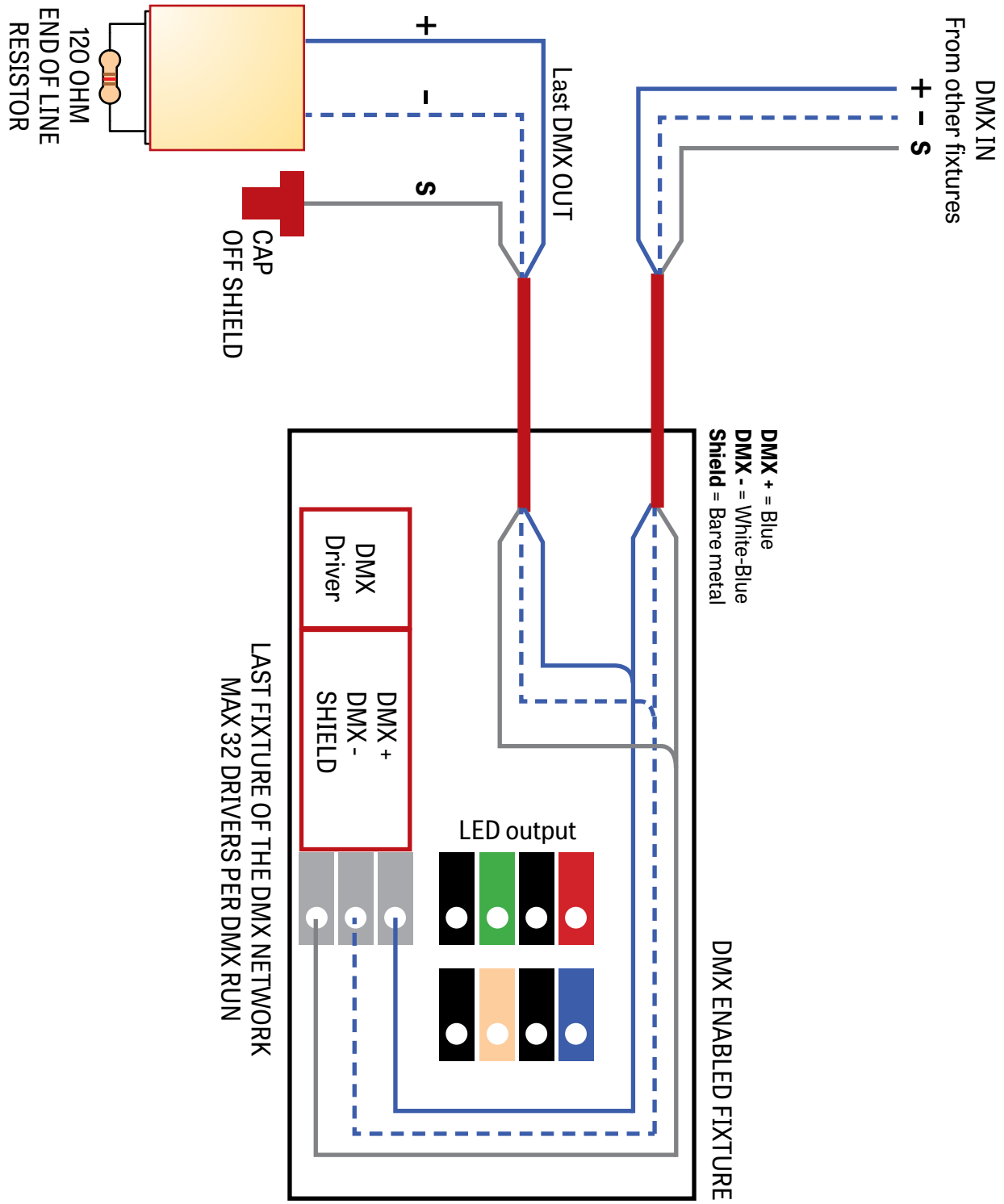


3 DMX CONNECTION PENDANT & WALL



CHROMAWERX QUADRO - RGBW

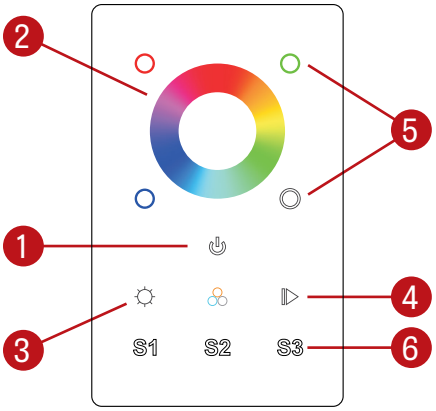
4 DMX LAST FIXTURE DETAIL



CHROMAWERX QUADRO - RGBW

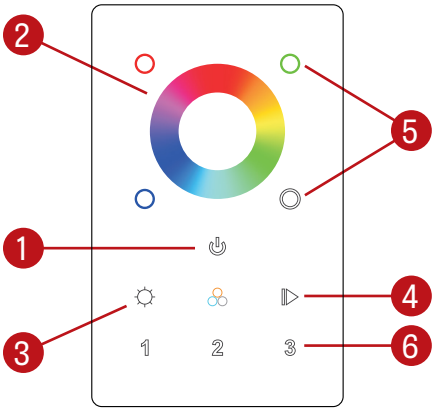
DMX WALL CONTROLLER

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