

# VIA 3 LED

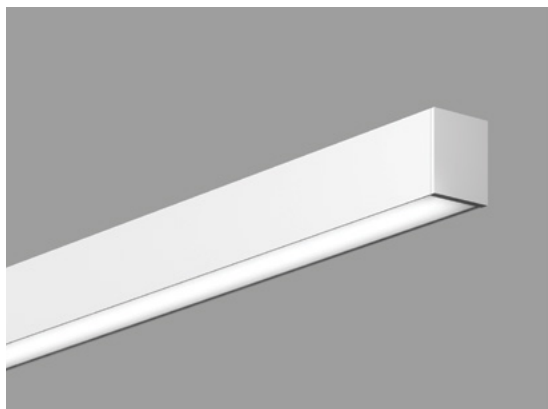
WALL DIRECT/INDIRECT ASYMMETRIC



**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 HLO optics

### DESCRIPTION

**Via 3** features our Asymmetrical Lens Optic for smooth, comfortable and efficient illumination of vertical surfaces. Via 3 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 3 is an ideal vehicle for ChromaWerx color tuning in education, office, and healthcare applications where modular luminaires are used.

**PROJECT:** \_\_\_\_\_

**TYPE:** \_\_\_\_\_

**NOTES:** \_\_\_\_\_



### ORDER GUIDE

VIA3WDI	HLO	ARO	LED		
LUMINAIRE ID	DIRECT OPTICS	INDIRECT OPTICS	LIGHT SOURCE	CHROMAWERX	DIRECT OUTPUT WATTAGE
VIA3WDI - via 3" wall direct/indirect	HLO - High-Efficiency Lambertian Optic	ARO - Asymmetric reflector optic	LED - high performance LED	<b>QUADRO</b> - four-channel RGB with 3500K white <b>RS</b> - red solid <b>GS</b> - green solid <b>BS</b> - blue solid	<b>2.5WF</b> - 2.5 w/ft output (for solid colors only) <b>5WF</b> - 5 w/ft output (quadro only) <b>10WF</b> - 10 w/ft output (quadro only) <b>15WF</b> - 15 w/ft output (quadro only)

INDIRECT OUTPUT WATTAGE	LUMINAIRE LENGTH	VOLTAGE	DRIVER	ELECTRICAL
<b>2.5WF</b> - 2.5 w/ft output (for solid colors only) <b>3WF</b> - 3 w/ft output (quadro only) <b>5WF</b> - 5 w/ft output (quadro only) <b>7WF</b> - 7 w/ft output (quadro only)	Available sections - 4', 6', 8', 10' & 12' <b>#FT</b> - nominal length in feet <b>(2' increments only)</b> Continuous Run - for luminaires over 12' Minimum Individual section 4'	<b>120</b> - 120V <b>277</b> - 277V	<b>DMX</b> - to specify see pages 4 to 9 <b>DA</b> - Dali (solid colors only) local on-site commissioning is required <b>0-10</b> - 0-10 (solid colors only)	<b>1</b> 1 - 1 circuit

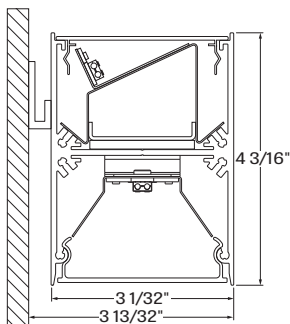
DMB		
MOUNTING	FINISH	OPTIONS
DMB - drywall mounting bracket	<b>W</b> - matte white <b>AL</b> - aluminum <b>B</b> - matte black <b>CF#</b> - custom finish specify RAL#	<b>FU</b> - fuse <b>CU</b> - custom

### DMX WALL CONTROLS

To specify see pages 4 to 9

See page 2 for ordering code detailed information

### CROSS SECTION



VIA3WDI - wall asymmetric

## CHROMAWERX QUADRO - RGBW

### OPTICS

**High Efficiency Lambertian Optic (HLO)** - Matte white side reflectors combined with High-Efficiency Lambertian Optic (HLO) shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration. Luminaire brightness is controlled by the flux-to-shielding area ratio.

**Asymmetric Reflector 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.

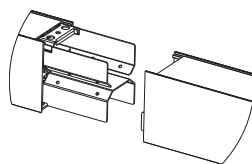
### LIGHT SOURCE - LED

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 3 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 foot, and continuous run lengths can be ordered in 2 foot increments.

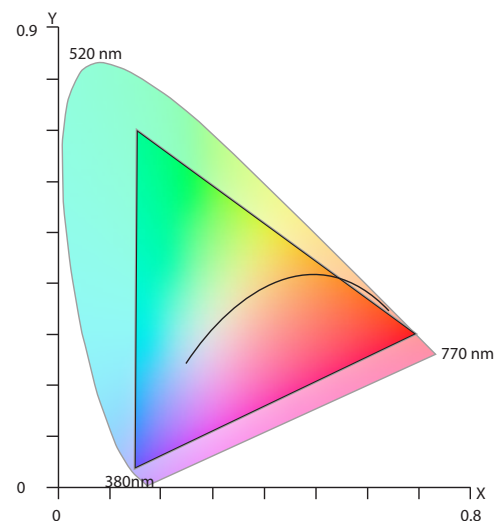
All individual sections are joined together onsite using the joiner kits provided. LumenWerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.



joining system for Via 3  
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** - Cold rolled steel 0.024" thick precisely die formed, 95% reflective matte white painted

**End caps** - Die cast Aluminum (0.95" nominal)

**WEIGHT**

**Via 3 4ft** - 13.23lbs - 6.0kg

**Via 3 8ft** - 26.48lbs - 12.0kg

**Via 3 12ft** - 39.84lbs - 18.0kg

**CERTIFICATIONS**

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

**WARRANTY**

For all ChromaWerx products, LumenWerx provides a three-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

## 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 control system supplied by others. Lumenwerx will supply DMX-enabled fixtures with default DMX addressing. See following pages for technical DMX informations. ✓

DMX controller supplied by Lumenwerx

**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:**

per 4' fixture

Driver

1x driver

Direct only

per 4' fixture

Driver

Driver  
2x driver

Direct high output

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.

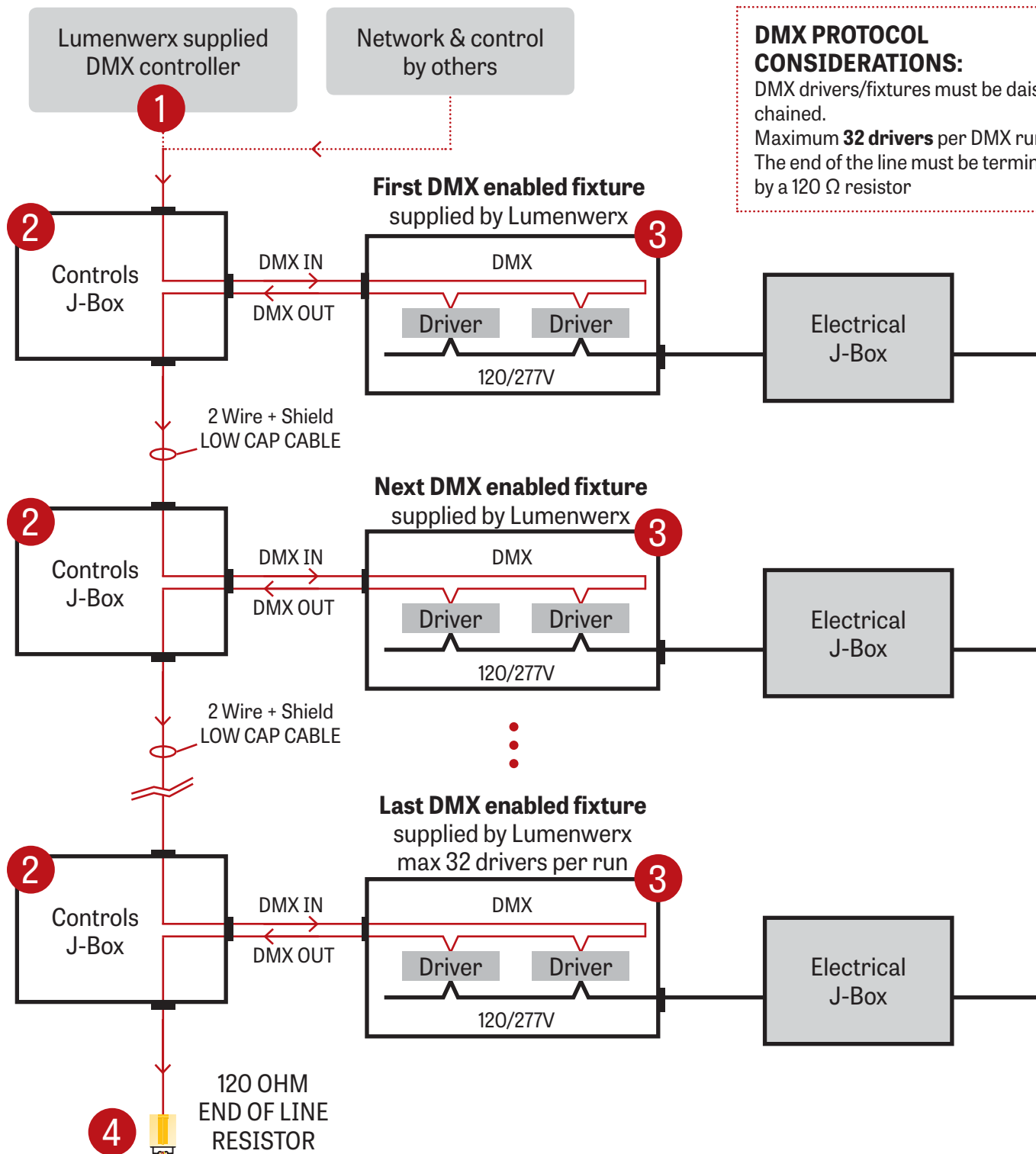
Refer to your DMX integrator for the installation. ✓

Subject to factory evaluation. Please contact our controls specialist at [controls@lumenwerx.com](mailto: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](mailto:controls@lumenwerx.com). Additional cost and equipment will be required. ✓

## CHROMAWERX QUADRO - RGBW

## GENERIC DMX NETWORK ARCHITECTURE


**DMX PROTOCOL  
CONSIDERATIONS:**

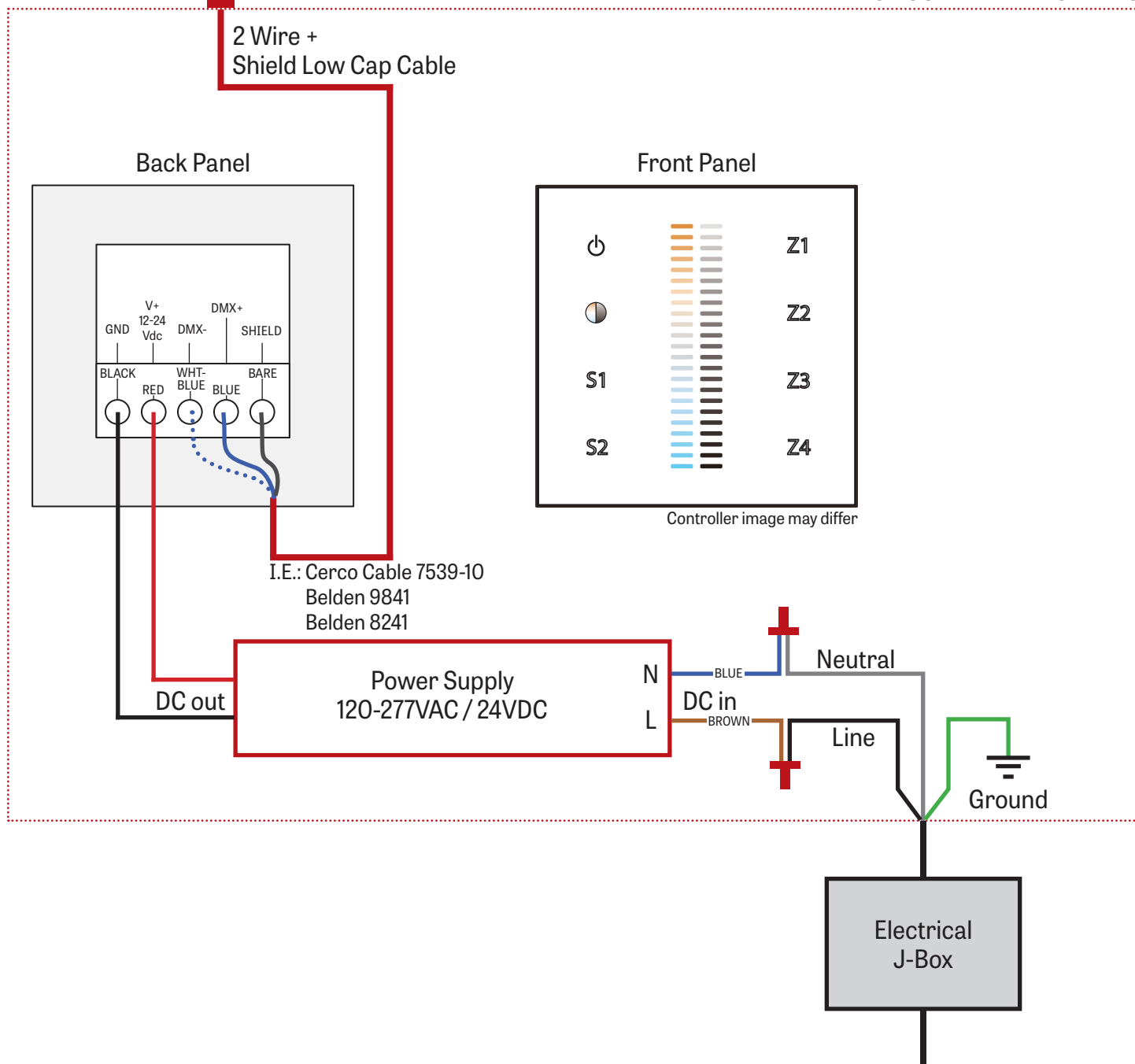
DMX drivers/fixtures must be daisy chained.  
 Maximum **32 drivers** per DMX run.  
 The end of the line must be terminated by a 120  $\Omega$  resistor

## CHROMAWERX QUADRO - RGBW

### 1 LUMENWERX SUPPLIED DMX CONTROLLER

To the first fixture

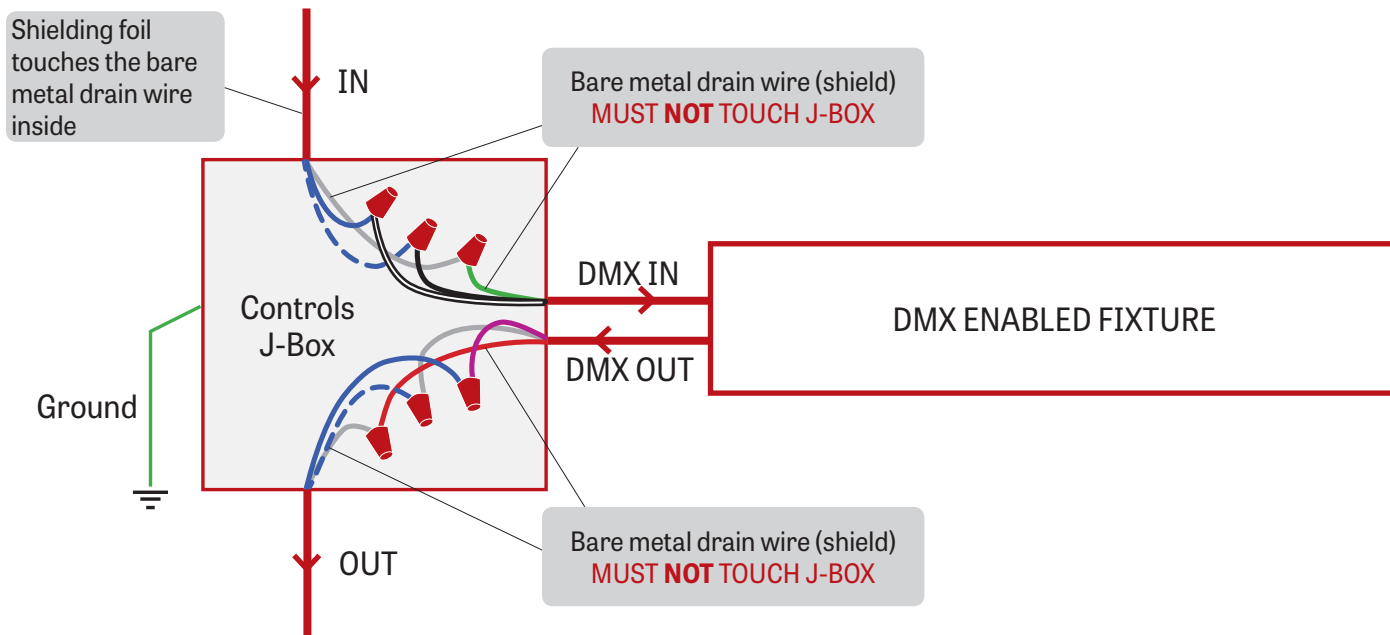
WALL BOX SUPPLIED BY OTHERS



## CHROMAWERX QUADRO - RGBW

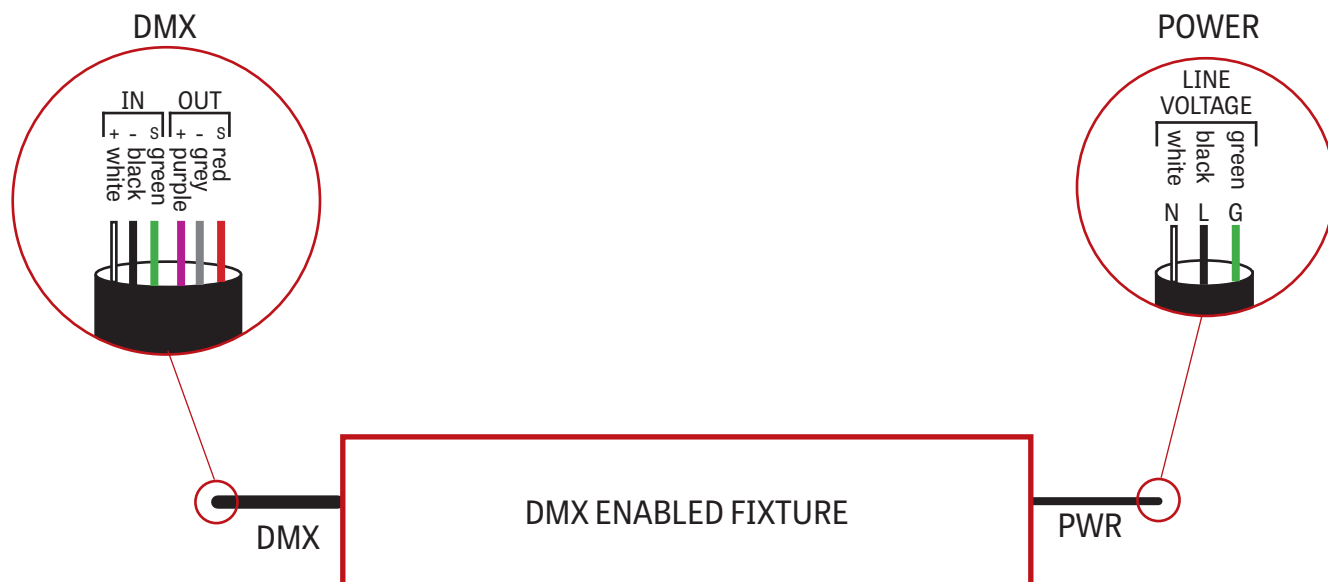
## 2 J-BOX DMX DAISY CHAIN DETAIL

## Low capacitance DMX Cable from Previous Fixture



## Low capacitance DMX cable to next fixture

## 3 DMX CONNECTION PENDANT &amp; WALL



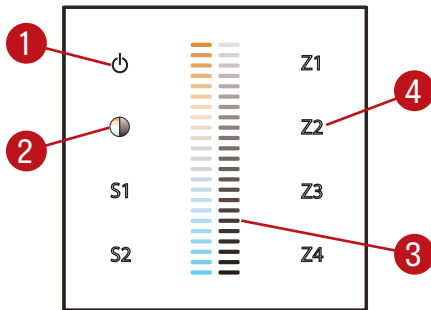




## CHROMAWERX QUADRO - RGBW

## 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 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