# VEGA 2x2 LED

RECESSED



# **CHROMAWERX QUADRO - RGBW**

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



Grid - shown with MTO and HLO optics

#### **ORDER GUIDE**

DESCRIPTION

Vega is an efficient architectural LED troffer with a distinctive luminous shielding that features a median textured optic. Using advanced LED engines, Vega provides highly efficient illumination and

PROJECT:

APPROVED BY: SIGNATURE:

offers comprehensive ceiling, electrical, and controls options in 2x2, 1x4, and 2x4 sizes. Vega is an ideal vehicle for Chromawerx color tuning in education, office, and healthcare applications where modular luminaires are used. See separate spec sheets for other available mountings.



**DMX WALL CONTROLS** To specify see pages 4 to 9

#### IC RATED

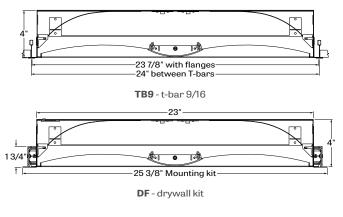
VEGR	22	мто	HLO	LED		
LUMINAIRE ID	SIZE	CENTER OPTICS	SIDE OPTICS	LIGHT SOURCE	CHROMAWERX	OUTPUT WATTAGE
VEGR - vega recessed	<b>22</b> - 2'x2'	<b>MTO</b> - Median Textured Optic	<b>HLO</b> - High-Efficiency Lambertian Optic	<b>LED</b> - high performance LED	QUADRO - four-channel RGB with 3500K white RS - red solid GS - green solid BS - blue solid	<ul> <li>20W - 20 watts output (for solid colors only)</li> <li>20W - 20 watts output (quadro only)</li> <li>25W - 25 watts output (quadro only)</li> <li>30W - 30 watts output (quadro only)</li> </ul>

		1			
VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	FINISH	OPTIONS
<b>120</b> - 120V	DMX - to specify see pages 4 to 9	1-1 circuit	<b>TG9</b> - tegular 9/16"	W - matte white	FU - fuse
<b>277</b> - 277V	DA - DALI (solid colors only) local		<b>TG15</b> - tegular 15/16"	CF# - custom	FWC - flexible whip
	on-site commissioning is required		<b>TB9</b> - t-bar 9/16"	finish	cable (6' std)
	0-10 - 0-10 (solid colors only)		<b>TB15</b> - t-bar 15/16"	specify RAL#	AR - air return (for
			ST - screw slot t-bar		grid only)
			<b>DF</b> - drywall kit		CP - Chicago Plenum
					CU - custom

See page 2 for ordering code detailed information

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#### **CROSS SECTION**



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# VEGA 2x2 LED



### **CHROMAWERX QUADRO - RGBW**

#### OPTICS

**CENTER LENS - MEDIAN TEXTURED OPTIC (MTO)** - Median Textured Optic (MTO) shielding consisting of ribbed diffusing center element.

# SIDE LENS - HIGH EFFICIENCY LAMBERTIAN OPTIC (HLO) - Curved sides of

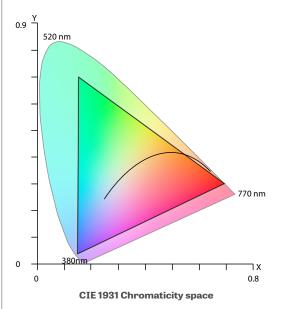
diffusing 0.075" thick acrylic with 90% transmission and good source obscuration. Luminaire brightness is controlled by the flux-to-shielding area ratio in addition to offering a gentle gradient from center to edge.

#### LIGHT SOURCE - LED

Custom 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 - 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 standalone 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.

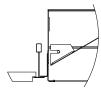
# ELECTRICAL

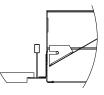
#### DMX

Factory-set, adjustable output current, multichannel 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%.

#### **MOUNTING OPTIONS**

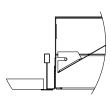
Recess mount into exposed or concealed T-Bar or Tegular grid ceiling





**TG9** - tegular 9/16"

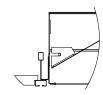
TG15 - tegular 15/16"





**TB9** - t-bar 9/16"

**TB15** - t-bar 15/16



ST - screw slot t-bar



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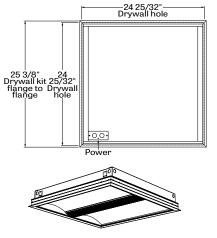






## **CHROMAWERX QUADRO - RGBW**

A separate kit for mounting fixtures into drywall ceilings



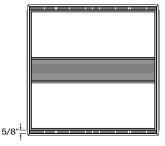
DF - drywall kit

#### FINISH

Interior reflectors - 95% reflective, matte white powder coating Exterior - matte white powder coating. Custom finish is also available.

#### **OPTIONS**

The air return option consists in a discreet, yet efficient, slot pattern integrated into the side flanges of the luminaire, allowing the airflow to exhaust into plenum space, creating a clean, pleasant look of the ceiling.



Air Return

#### 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.

#### WEIGHT

**Vega 2x2** - 16.08lbs.+2.51lbs. (drywall kit) -7.3kg+1.14kg (drywall kit)

#### CERTIFICATIONS

**ETL** - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0. **Chicago plenum** - City of Chicago Approved (CCEA) **IC rated** - suitable for direct contact with insulation.

#### WARRANTY

For all Chromawerx products, 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.



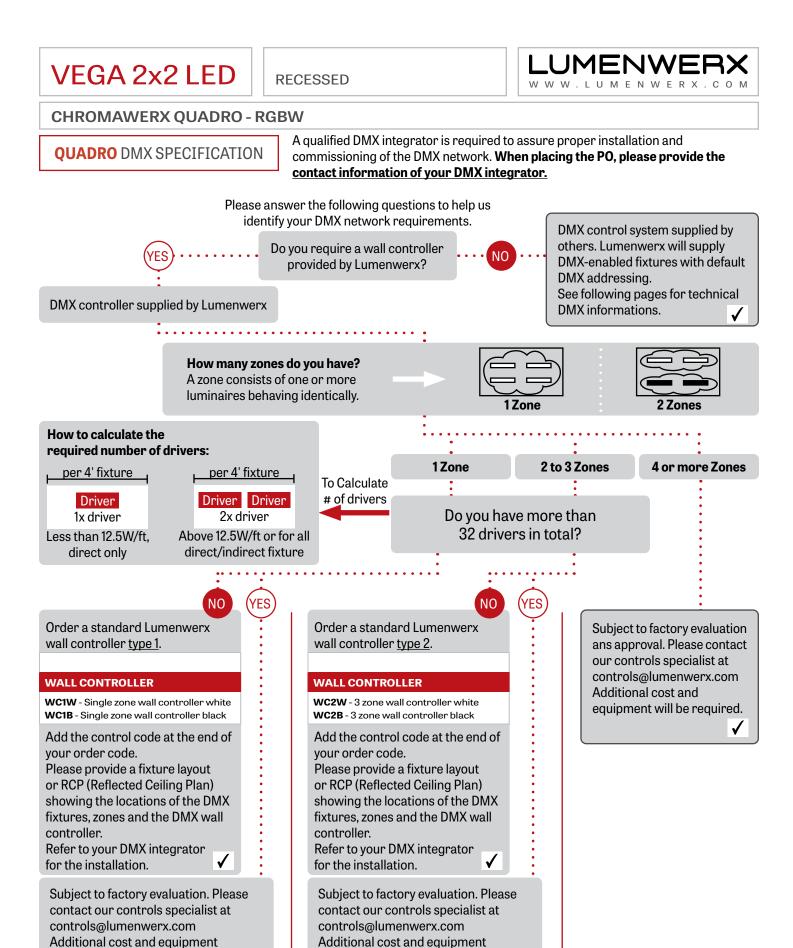
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will be required.

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Intertek

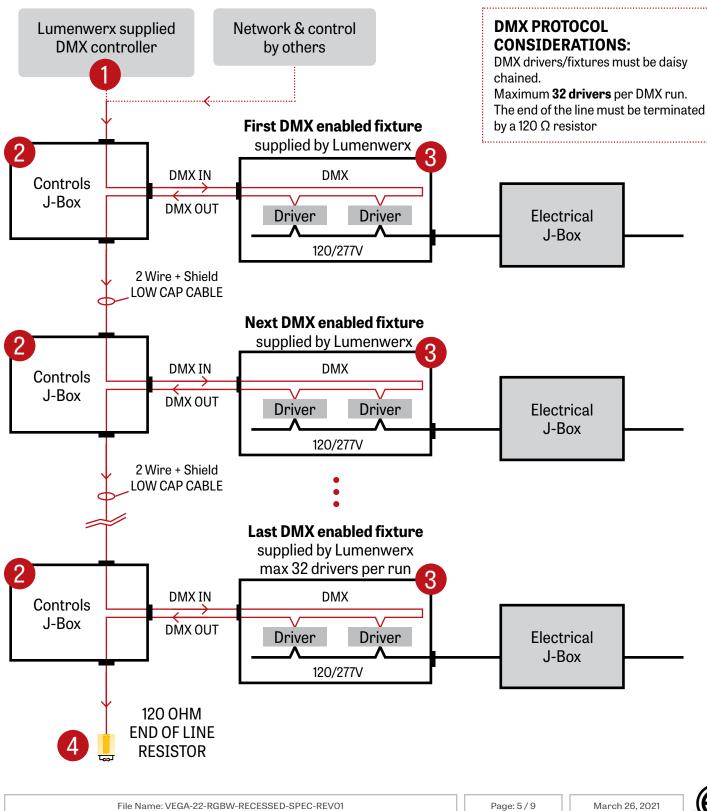


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# **CHROMAWERX QUADRO - RGBW**

# GENERIC DMX NETWORK ARCHITECTURE



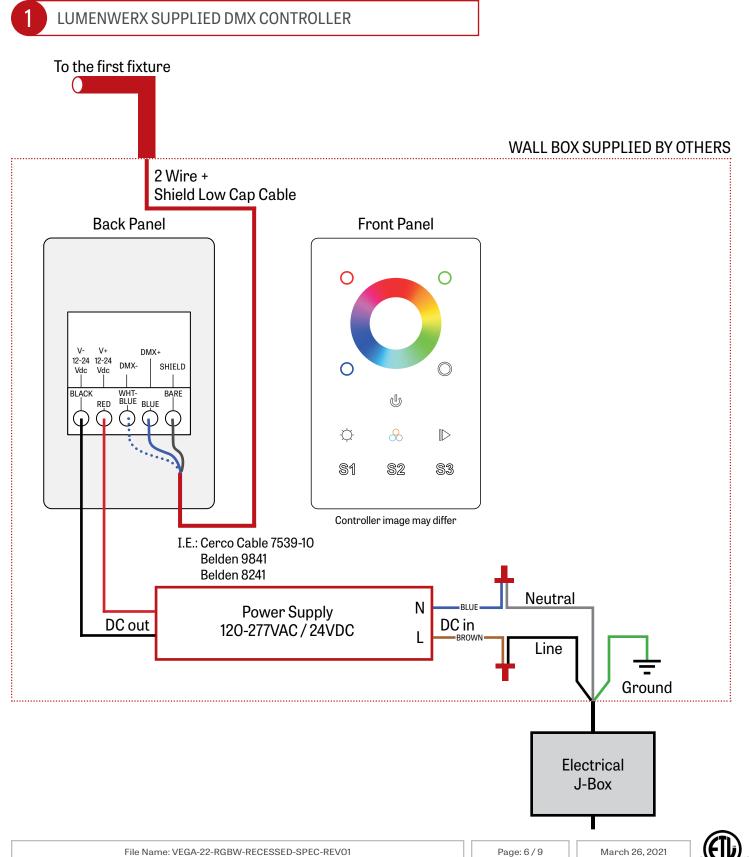




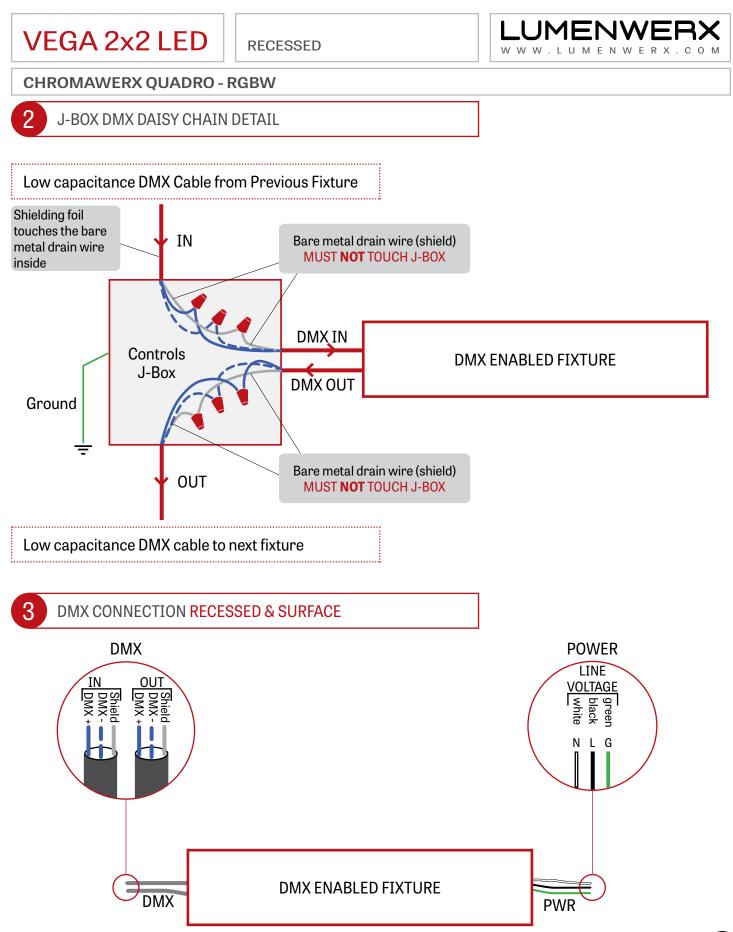
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## **CHROMAWERX QUADRO - RGBW**







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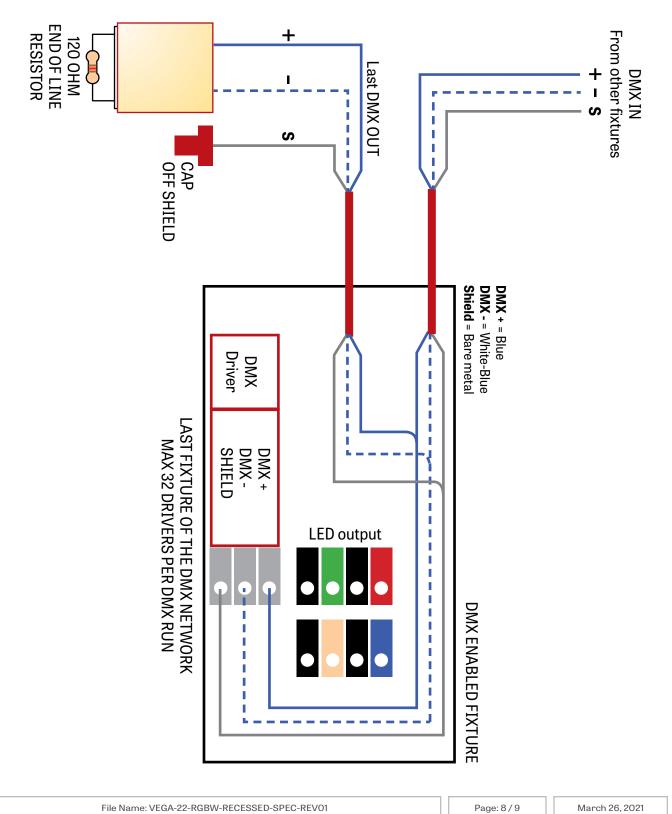
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# **CHROMAWERX QUADRO - RGBW**

# DMX LAST FIXTURE DETAIL



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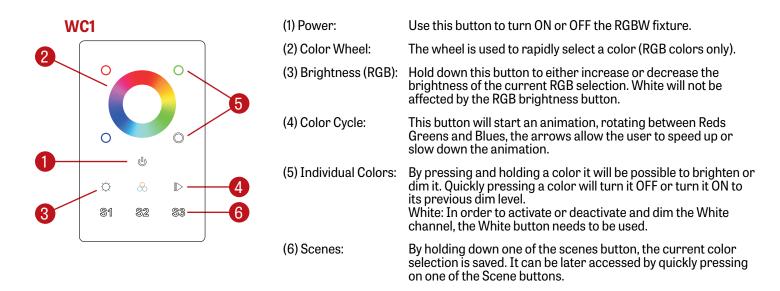


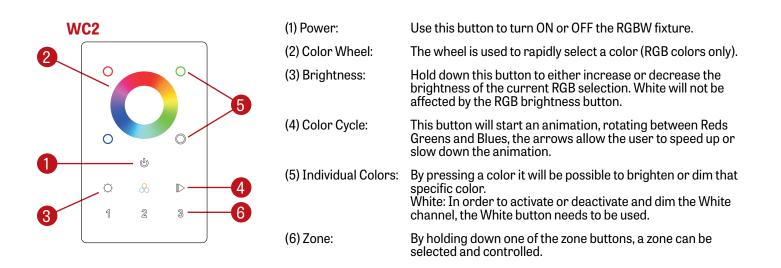
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# **CHROMAWERX QUADRO - RGBW**

# DMX WALL CONTROLLER





#### **Default DMX Addresses:** 1 Red

2 Green 3 Blue 4 White

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