



CHROMAWERX QUADRO - RGBW

Grid ceiling

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





Cava-T provides a pleasant canopy of gentle luminescence that brightens everyday work spaces as well as special areas. Cava-T is available in 1x4 and 2x2 modules for a variety of ceiling conditions.

Cava-T is an ideal vehicle for Chromawerx color tuning in education, office, and healthcare applications where modular recessed luminaires are used.

PROJECT:	
TYPE: NOTES:	



ORDER GUIDE IC RATED

CATR	22	RLO	LED			
LUMINAIRE ID	SIZE	OPTICS	LIGHT SOURCE	CHROMAWERX	OUTPUT WATTAGE	VOLTAGE
CATR - Cava-T recessed	22 - 2'x2'	RLO - Reduced	LED - high	QUADRO - four-channel RGB	30W - 30 watts output (for solid colors only)	120 - 120V
		Luminance Optic	performance LED	with 3500K white	30W - 30 watts output (quadro only)	277 - 277V
				RS - red solid	40W - 40 watts output (quadro only)	UNV-
				GS - green solid	50W - 50 watts output (quadro only)	120V-277V
				BS - blue solid		

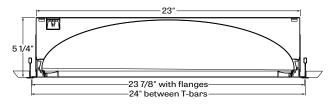
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DRIVER	ELECTRICAL	MOUNTING	FINISH	OPTIONS
DMX - to specify see pages 4 to 9 DA - DALI (solid colors only)	1-1 circuit	TG9 - tegular 9/16" TG15 - tegular 15/16"	W - matte white	FU - fuse FWC - flexible whip cable (6' std)
local on-site commissioning is required		TB9 - t-bar 9/16" TB15 - t-bar 15/16"		CP - Chicago Plenum
D1 - 0-10V (solid colors only)		ST - screw slot t-bar DF - drywall kit		

Drywall ceiling

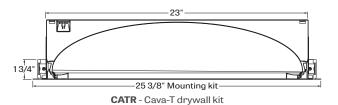
DMX WALL CONTROLS To specify see pages 4 to 9

See page 2 for ordering code detailed information

CROSS SECTION

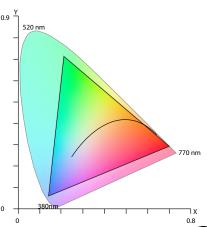


CATR - Cava-T t-bar 9/16



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CHROMAWERX QUADRO - RGBW

OPTICS

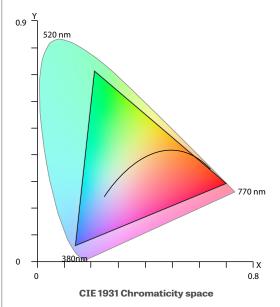
REDUCED LUMINANCE OPTIC (RLO) - Reduced Luminance Optic (RLO) consists of indirect-mounted LED arrays illuminating a vaulted reflector with a matte white finish greater than 95% reflectivity. The ultra-shallow arrays in RLO completely conceal the light source while evenly distributing brightness over the entire surface of the cavity using a combination of multiple reflective bounces and a very high diffuse reflectivity. Compared to diffusing optics, RLO reduces luminaire brightness due to the visible interior surface being larger than the aperture.

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

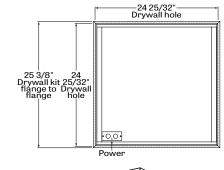


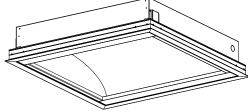
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CHROMAWERX QUADRO - RGBW

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.

CONSTRUCTION

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

Main reflector - Extruded aluminum (0.019" thickness), 98% reflective matte white painted.

Internal reflectors - 95% reflective semi-specular extruded aluminum (0.020" thickness).

Door end-plates - Die formed cold rolled sheet steel 16 gauge thick, matte white powder coating.

Door sides - Extruded aluminum (0.060" nominal thickness)

Internal brackets - Die formed cold rolled sheet steel 22 gauge thick.

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

WEIGHT

Cava-T 2x2: 19.06 lbs. - 8.65 kg

CERTIFICATIONS

 $\pmb{\mathsf{ETL}}$ - 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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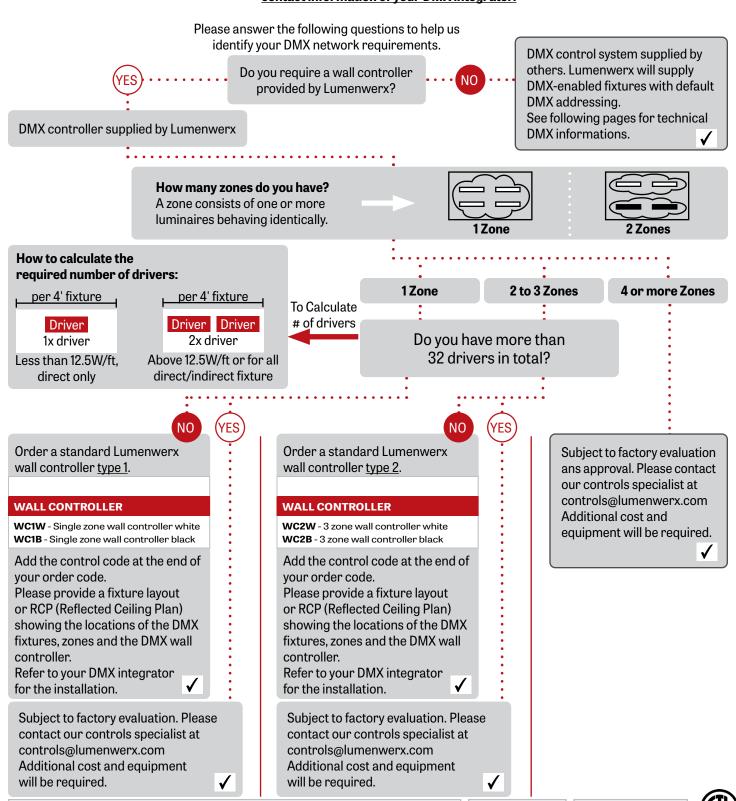
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CHROMAWERX QUADRO - RGBW

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.



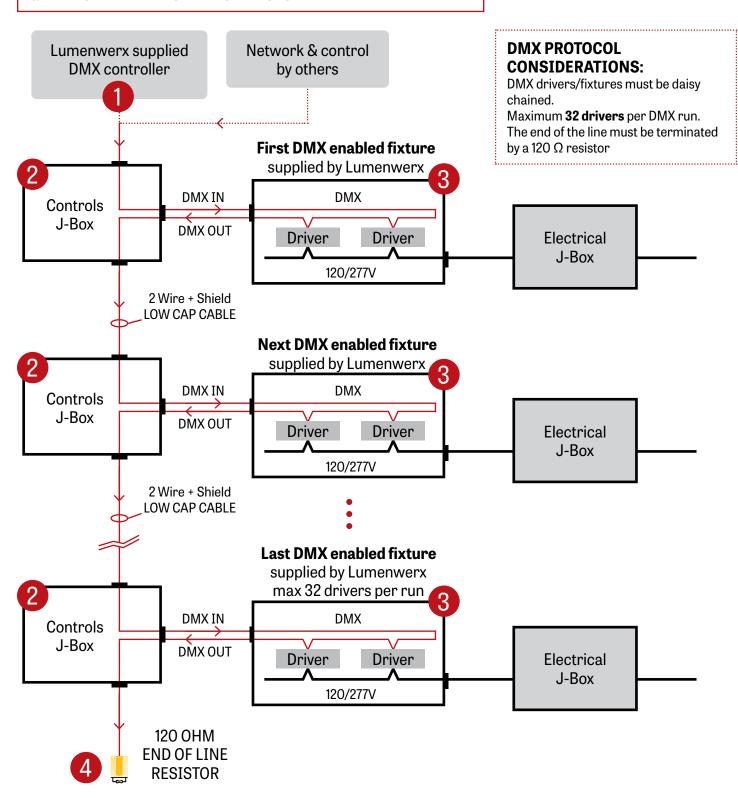
Intertek

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CHROMAWERX QUADRO - RGBW

GENERIC DMX NETWORK ARCHITECTURE



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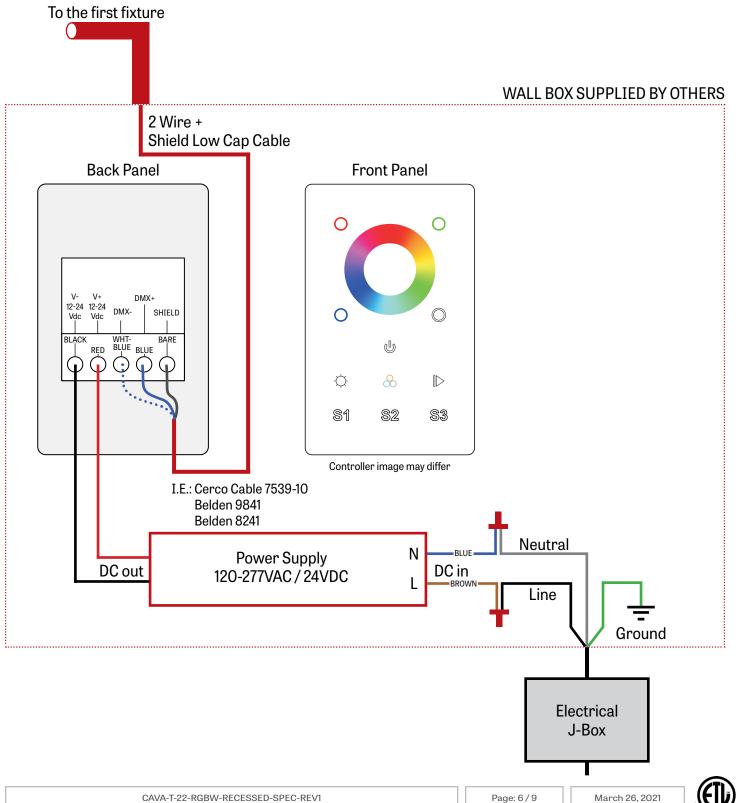


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CHROMAWERX QUADRO - RGBW

LUMENWERX SUPPLIED DMX CONTROLLER



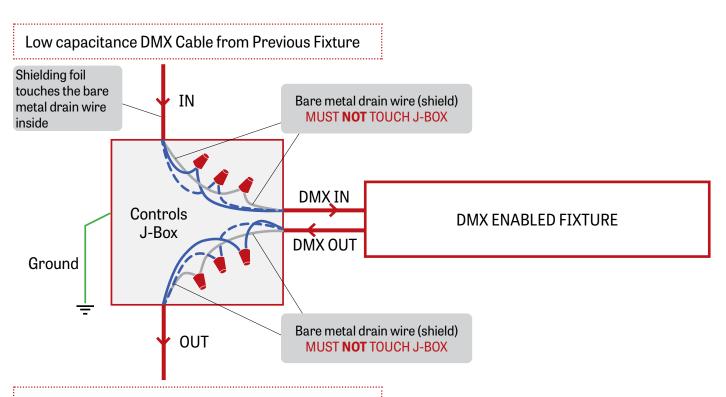
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CHROMAWERX QUADRO - RGBW

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J-BOX DMX DAISY CHAIN DETAIL



Low capacitance DMX cable to next fixture

3 DMX CONNECTION RECESSED & SURFACE



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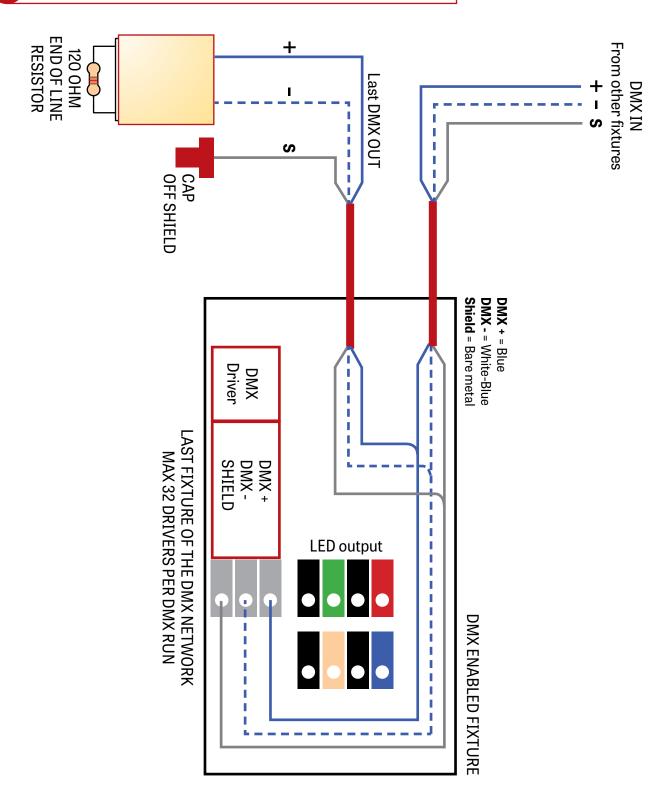
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CHROMAWERX QUADRO - RGBW

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DMX LAST FIXTURE DETAIL



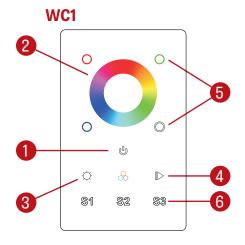


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CHROMAWERX QUADRO - RGBW

DMX WALL CONTROLLER



(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.

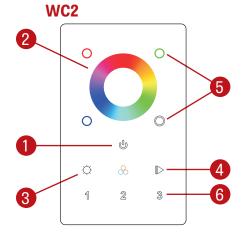
White: In order to activate or deactivate and dim the White

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.



(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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