

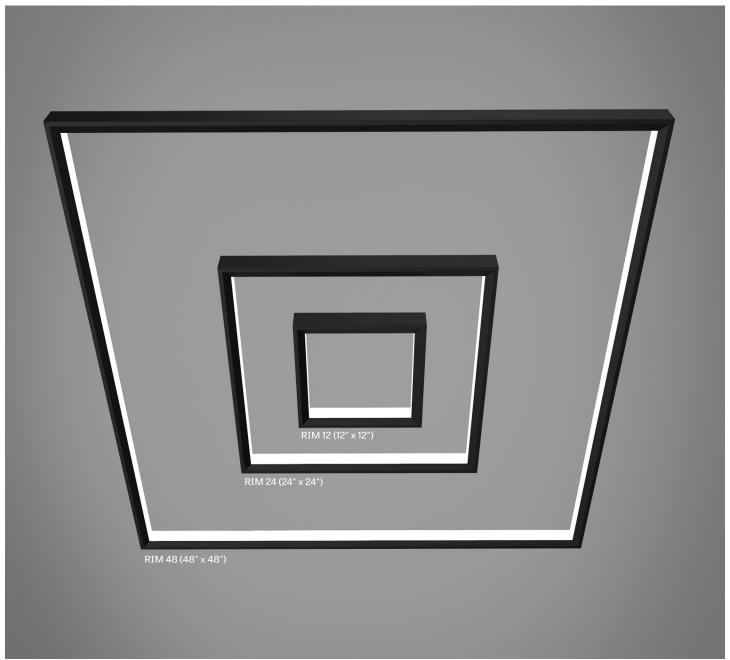




DESCRIPTION

Rim Square combines generous ambient illumination with elegant geometry. The 2" high extruded aluminum frame is constructed with welded miter joint into a seamless form that can be painted in a wide range of standard and custom colors. The driver installs remotely, either above or below the ceiling. Mounted with aircraft cables, it is available with single canopy or multiple canopy options.

Rim Square is available in three sizes: 12" x 12", 24" x 24" and 48" x 48". Nominal light output ranges from 1200 to 10000 lumens, with efficacy up to 77 lumens per watt. Rim Square supports the full range of Chromawerx Sola, Duo, and Quadro options for tunable white and RGBW expressive color. Rim is also available in Round and Linear forms (see separate specification sheets).



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

PROJECT:	
TYPE:	
NOTES:	

ORDER GUIDE

RIMSP		ULO		90
LUMINAIRE ID	SIZE	OPTIC	LIGHT SOURCE	CRI
RIMSP - Rim Square Pendant			SOLA - Dim-to-warm single channel control 22K to 35K DUO - Tunable white 2-channel control 27K to 65K	90 - 90CRI
	48 - 48" x 48"		QUADRO - Four-channel RGB with 3500K white	

LUMEN PACKAGE	VOLTAGE	DRIVER		ELECTRICAL
####Im - L1200Im - M1900Im - H2500Im (RIM12) ####Im - L2500Im - M3800Im - H5000Im (RIM24) ####Im - L5100Im - M7600Im - H10000Im (RIM48) L-Low, M-Medium H-High, consult factory for other	120 - 120V 277 - 277V UNV - 120V-277V	Sola SD1 - Single 0-10V input Duo	Quadro DMX ²³ - DMX	1-1 circuit
34W - 34W output (RIM12 Quadro only) 68W - 68W output (RIM24 Quadro only) 136W - 136W output (RIM48 Quadro only)		DD1 - Dual O-10V input for CCT/intensity DA 2 - DALI PSQO 2 - Lutron T-series 1% Tunable White DMX 23 - DMX		
¹ Two power cords will be required.		² On-site commissioning is required. ³ To specify, see pages 6 to 12.		

MOUNTING							
DRIVER BOX 4	CANOPY FINISH	POWER	MOUNTING POINTS	HEIGHT			
SCD 56 - Square canopy driver box RDB - Remote driver box	AL - Aluminum B - Black W - Matte white	BAC - Black power cord + aircraft cable WAC - White power cord	SC - Single canopy MC 78 - Multiple canopies	##IN ⁹ - Dist	ance from the canopy to the f	ïxture in inches	
 ⁴ For more information see page 3. ⁵ SCD is not available for lumen packages over 6000lm (3500lm for Lutron driver options). 	CF# - Custom finish specify RAL#	+ aircraft cable	 Not available with SCD. 4 canopies provided. 	⁹ For single o Fixture size Ø 12"	Square canopy driver box	nounting heights are Remote driver box min height 12.5"	
⁶ SCD is not available for DMX.				Ø 24" Ø 48"	min height 25" min height 54.5"	min height 27" min height 56.5"	

See website for the Pendant Mounting Guide

FINISH

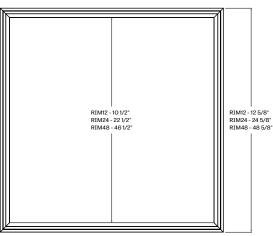
AL - Aluminum

B - Black

W - Matte white

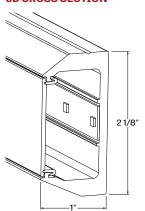
CF# - Custom finish specify RAL#

TOP VIEW



RIMSP - Rim Square Pendant

3D CROSS SECTION



RIMSP - Rim Square Pendant

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DMX WALL CONTROLS

To specify see pages 6 to 12





MOUNTING OPTIONS

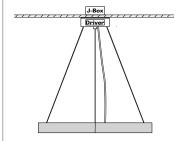
SCD - SOUARE CANOPY DRIVER BOX

SCD - Square Canopy Driver Box - driver is in a $5\,1/2$ " x $5\,1/2$ " x 2" or $7\,1/4$ " x $7\,1/4$ " x $2\,5/16$ " enclosure that also supports suspension and power cables. Enclosure is available in standard finishes (see ordering code).

SC-SINGLE CANOPY



WAC - White power cord + aircraft cable



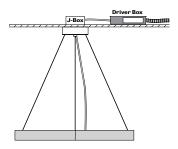
RDB - REMOTE DRIVER BOX IN DRYWALL

RDB -Remote Driver Box - driver is in a 20"x4"x2" enclosure with brackets for mounting to ceiling joists, runners, or other supporting members. The $4\,3/4$ " $\times\,4\,3/4$ " $\times\,1\,5/8$ " deep wiring compartment canopy conceals and supports suspension and power cables. It is available in standard finishes (see ordering code). It can be installed in drywall or grid ceilings. Note: Support hardware is not supplied.

SC-SINGLE CANOPY



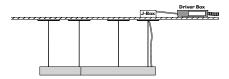
WAC - White power cord + aircraft cable



MC - MULTIPLE CANOPIES



WAC - White power cord + aircraft cable



The multiple canopy option, available with Remote Driver Box only, allows the fixture to be installed closer to the ceiling compared to the single canopy option. Four canopies are provided for multiple canopy option.

OPTIC

Uniform Lambertian Optic (ULO) - Thermoformed from impact-modified white PMMA, the ULO optic provides even luminosity, with up to 88% transmission.

Combined with the LED array running around the inside of the housing, the open form and ULO optic create a widespread 50% direct and 50% direct light distribution with spacing criteria of 1.6.

PERFORMANCE FOR 12" X 12"

LED output	Color Temp	Watts	Nominal Delivered	Efficacy
			Lumens	LPW
low output	4000K	15.5	1200	77
medium output	4000K	25.5	1900	74
high output	4000K	34.5	2500	72

PERFORMANCE FOR 24" X 24"

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	32.5	2500	77
medium output	4000K	51.5	3800	74
high output	4000K	69.5	5000	72

PERFORMANCE FOR 48" X 48"

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	66	5100	77
medium output	4000K	102.5	7600	74
high output	4000K	139	10000	72

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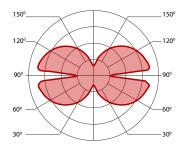
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Multiplier @ CRI90

Watts	LPW
1.09	0.92
1.05	0.95
1.02	0.98
1.00	1.00
0.94	1.07
0.95	1.06
	1.09 1.05 1.02 1.00 0.94



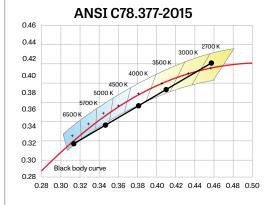
CHROMAWERX-TUNABLE WHITE

Custom linear array of alternating color temperature mid-flux LEDs are mounted directly to the housing for optimal thermal performance. For the Duo products, a color temperature range from 2700K-6500K is achievable with color points on or below the black body curve. For the Sola products, a color temperature range from 2700K-3500K is controlled synchronously with intensity. Color consistency between fixtures is maintained within 3SDCM. LEDs are operated at a reduced drive current to optimize efficacy and lumen maintenance.

All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance are greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

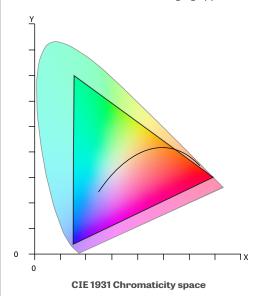
Chromawerx Sola is a single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple digital or analog control sends a common signal to dual output digital drivers, which are programmed to adjust a specially populated LED array to emulate the effect of dimming a filament source. Dimming range is programmable, but the default option runs from 3500K at 100% full power to 2200K at 5% full power.

Chromawerx Duo is a two-channel control. It uses analog or digital protocols for synchronous control of both warm and cool LED arrays, enabling the user to set color temperature and light output. Commonly called "tunable white", Chromawerx two-channel control provides the range of warm (2700K) to cool (6500K) color that can be useful for helping to entrain circadian rhythms, stimulate alertness for improved educational and work productivity, and compensate for jet lag, among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures.



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.



ELECTRICAL REMOTE

All remote drivers are furnished with factory enclosure for recessed installation in drywall and grid ceilings.

0-10V (not available for Quadro)

Driver features factory-set adjustable output current with 120-277V AC line input. Dimmable from 100% to 1% with multiple control options. Rated life (90% survivorship) is 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. 0-10V 1% Driver performance at maximum load, efficiency > 84%, Power Factor > 0.9, THD < 20%. See ordering code for other specifiable drivers.

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DALI (not available for Quadro))

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Using an existing DALI control system (supplied by others), one control channel adjusts the fixture color temperature, and the other control channel adjusts fixture brightness. Dimming range from 100%-0%. At maximum driver load, efficiency<86%, PF>0.9, THD<20%.

DMX (Quadro & Duo only)

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, either two channels of LEDs (warm-white & coolwhite) for Duo or four channels of LEDs (Red/Green/Blue/White) for Quadro 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%.

FINISH

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

CONSTRUCTION

Housing - Seamlessly welded aluminum extrusion, wide variety of colored powder

Diffuser - Uniform Lambertian optic, co-extruded flexible polycarbonate satine finished lens

WEIGHT

Rim square 12 - 3.4lbs - 1.5kg Rim square 24 - 6.6lbs - 3kg Rim square 48 - 12lbs - 5.4kg

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

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.

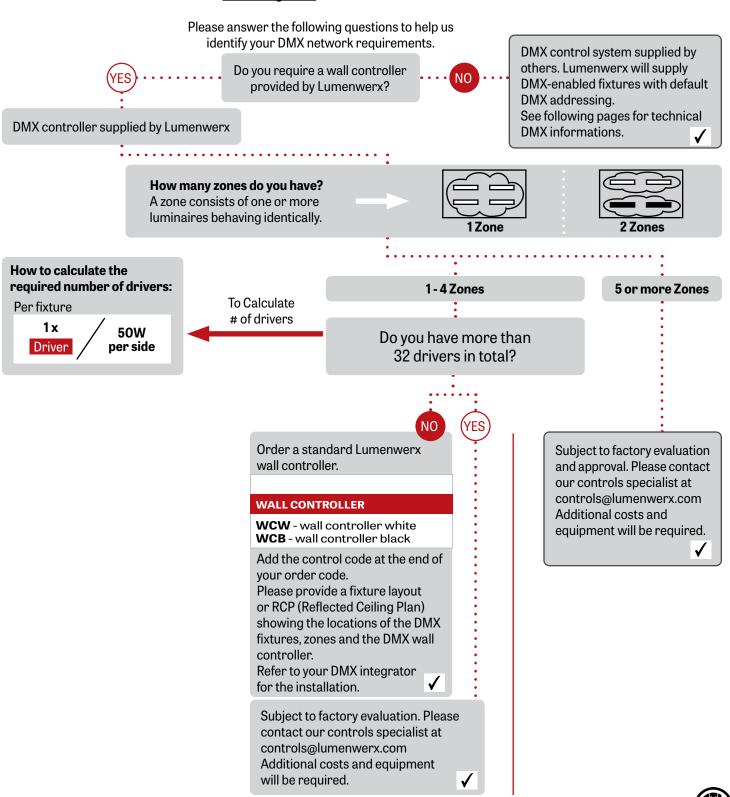
Wall controllers are covered by the manufacturer warranty.



CHROMAWERX TUNABLE WHITE AND DIM TO WARM

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.



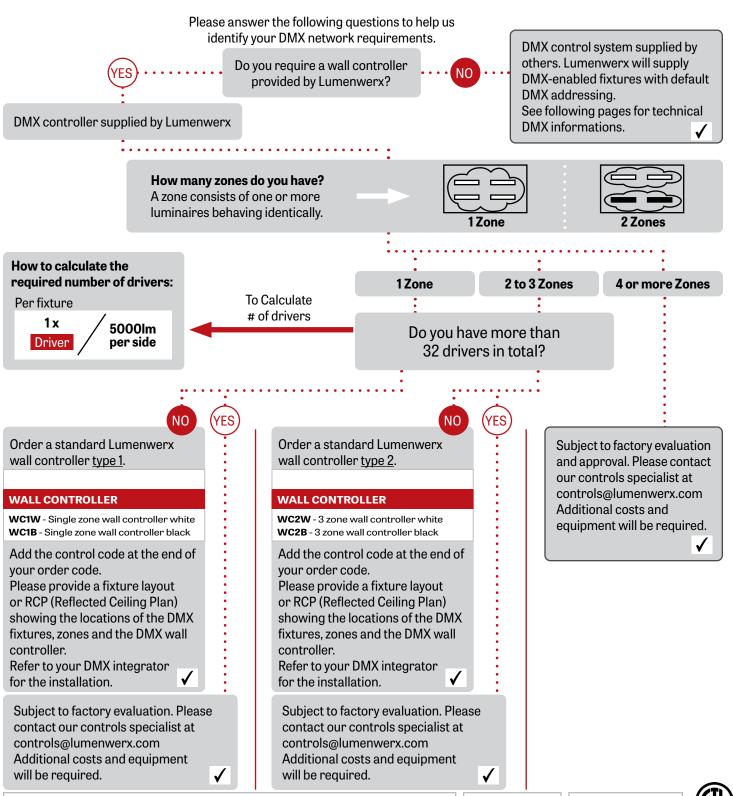
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CHROMAWERX QUADRO - RGBW

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.



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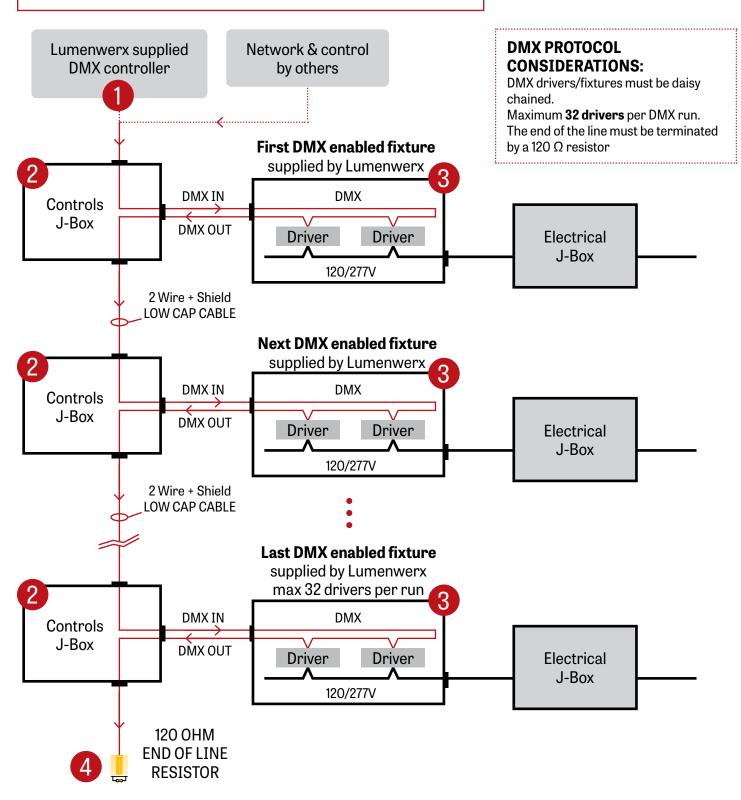
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CHROMAWERX TUNABLE WHITE AND RGBW

GENERIC DMX NETWORK ARCHITECTURE



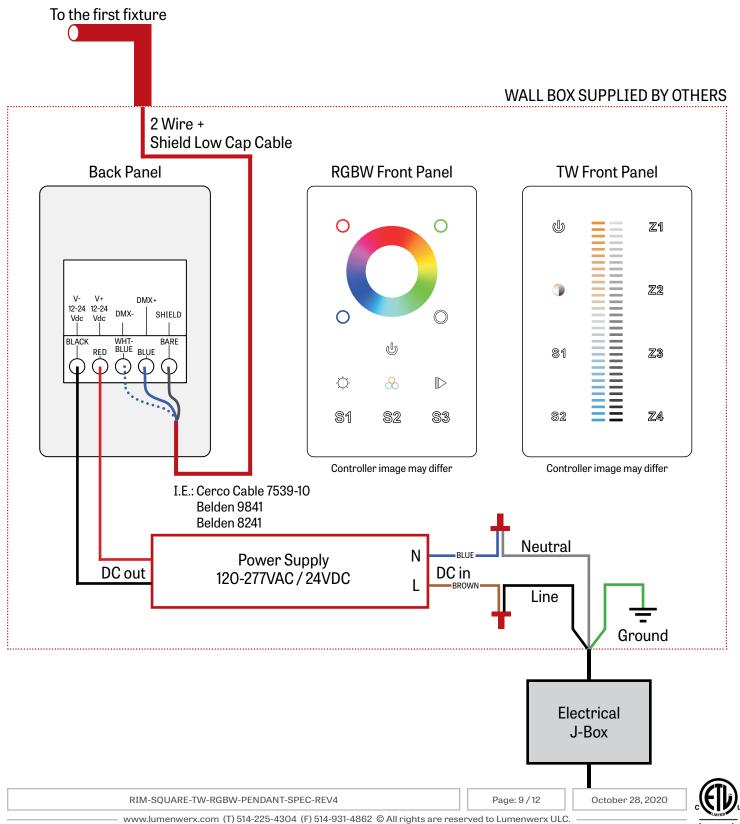




CHROMAWERX TUNABLE WHITE AND RGBW

1

LUMENWERX SUPPLIED DMX CONTROLLER

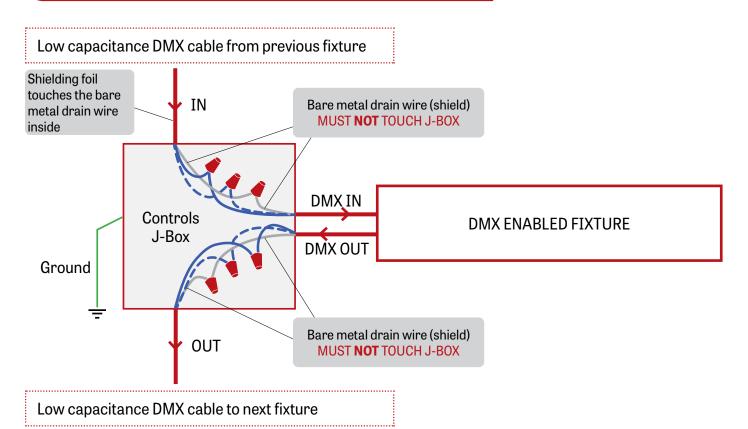




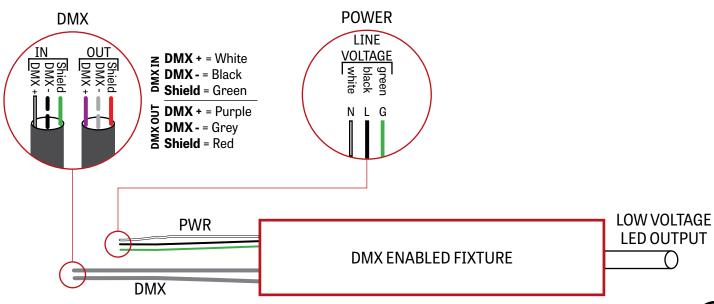
CHROMAWERX TUNABLE WHITE AND RGBW

2

J-BOX DMX DAISY CHAIN DETAIL







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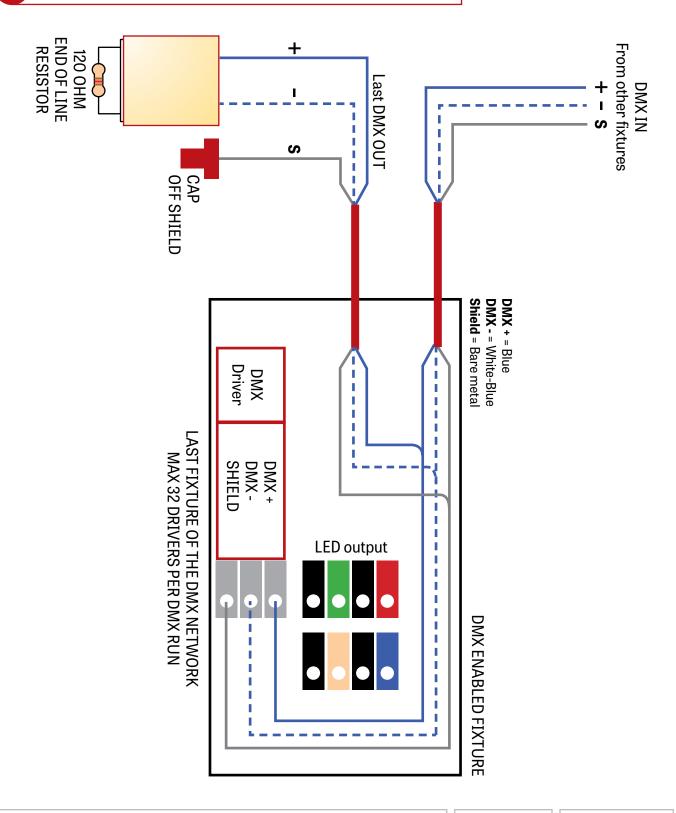




CHROMAWERX TUNABLE WHITE AND RGBW

4

LAST DMX CONNECTION DETAIL







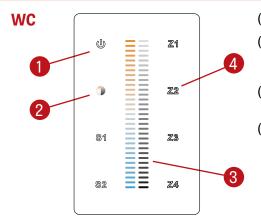
CHROMAWERX TUNABLE WHITE AND RGBW

DMX WALL CONTROLLER - TUNABLE WHITE

Default DMX Addresses:

1. WARM

2. COOL



(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 step 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.

DMX WALL CONTROLLER - RGBW

Default DMX Addresses:

1. RED | 2. GREEN | 3. BLUE | 4. WHITE

WC1 0 0 0 (J) **S**1 83

Use this button to turn ON or OFF the RGBW fixture. (1) Power:

(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.

This button will start an animation, rotating between reds. (4) Color Cycle:

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 either turn it OFF or

turn it ON to its previous dim level.

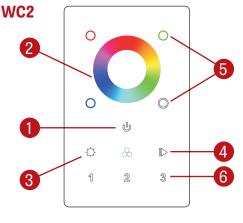
White: In order to activate or deactivate and dim the White

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.

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