







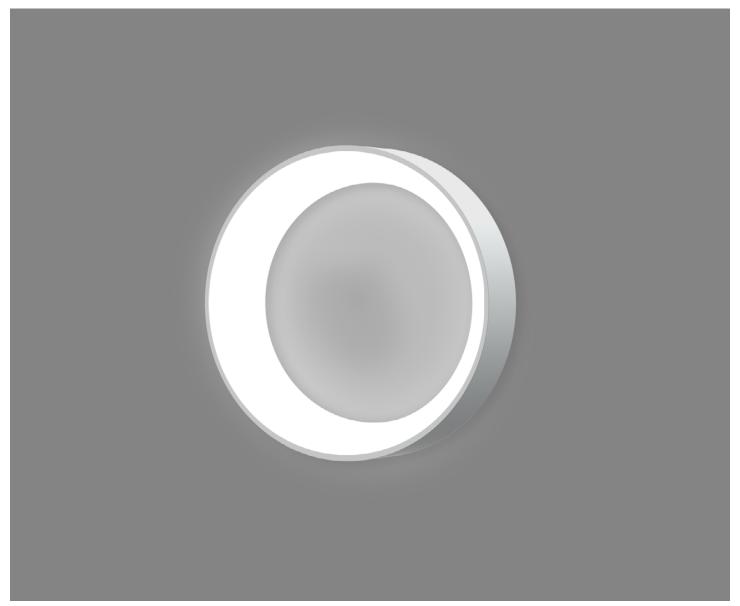
DESCRIPTION

Togo provides generous ambient illumination from a minimal and elegant ring form. Nestled in a crisp 4" high opaque band, the distinctive, annular diffuser glows inwardly. The diffuser's softly rounded compound curve lends Togo a slender appearance. Available in 18" and 24" diameters. Togo delivers efficient illumination and a range of light outputs.

Togo's outer housing of extruded aluminum is welded and buffed to a seamless band that can be painted in our nine standard finishes, or an RAL custom color, to coordinate with virtually any interior finish.

The Togo driver mounts remotely, either above or below the ceiling. Controls include dimming to 1% in 0-10V, line voltage, and digital protocols. Night light and emergency circuiting are available.

Togo supports the full range of Chromawerx Sola, Duo, and Quadro options for tunable white and RGBW expressive color.



Please see code on page 2 for all nine standard finishes.







PROJECT:TYPE:	
NOTES:	

TOGW	18IN	ULO		90		
LUMINAIRE ID	SIZE	OPTIC	LIGHT SOURCE	CRI	LUMEN PACKAGES/ WATTAGE	COLOR TEMP. 1
TOGW - Togo Wall	18IN - Ø 18"	ULO - Uniform Lambertian Optic	SW - Static white SOLA - Dim-to-warm single channel control 22K to 35K DUO - Tunable white 2-channel control 27K to 65K QUADRO - Four-channel RGB with 3500K white	90 -90CRI	####Im - L1800Im - M2500Im - H3200Im L-Low, M-Medium, H-High, consult factory for other (static white, Duo and Sola only) 41W - 41W output (Quadro only)	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 1 Not applicable for Duo, Sola, and Quadro.

			1	МВР	
VOLTAGE	REMOTE DRIVER		ELECTRICAL	MOUNTING	FINISH
120 - 120V 277 - 277V UNV - 120V-277V	Static white D1 - 1% O-10V DA 3 - DALI	Sola SD1 - Single 0-10V input	1-1 circuit	MBP - Mounting back plate	W - Matte white AL - Aluminum BK - Black
347V ² - 347V ² Available with	LDE1 ³ - Lutron Hi-lume 1% Eco	Duo DD1 - Dual 0-10V input for CCT/intensity DA3 - DALI			RAL 1028 - Yellow RAL 2004 - Orange RAL 3020 - Red
D1 only.		PSQ0 3 - Lutron T-series 1% Tunable White DMX 34 - DMX			RAL 4010 - Magenta RAL 5002 - Blue RAL 6018 - Green
		Quadro DMX 34 - DMX			CF# - Custom finish, specify RAL#
	³ On-site commissioning is required. ⁴ To specify, see pages 7 to 13.				

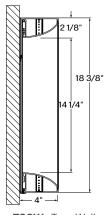
See page 3 for ordering code detailed information

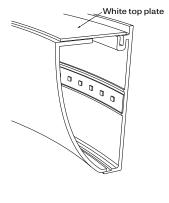
DMX WALL CONTROLS

To specify see pages 7 to 13

CROSS SECTION

3D CROSS SECTION





TOGW - Togo Wall **TOGW** - Togo Wall

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OPTIC

Uniform Lambertian Optic (ULO) - Thermoformed from seamless impact-modified white PMMA, the ULO optic provides even luminosity, with up to 88% transmission. The tapered, compound curve minimizes the luminaire form.

Combined with the LED array running around the inside of the supporting band, the annular form and ULO optic creates a widespread 67% direct and 33% direct light distribution with spacing criteria of 1.6.

LIGHT SOURCE - LED - STATIC WHITE

Custom array of mid-flux LEDs are mounted directly to the housing for optimal thermal performance. Available in 2700K, 3000K, 3500K, and 4000K with 90 CRI with elevated R9 value. Color consistency is maintained to 3 SDCM. 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 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.

PERFORMANCE AT 4000K

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	19.5	1800	92
medium output	4000K	28	2500	90
high output	4000K	37	3200	87

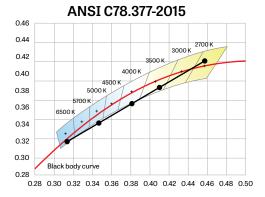
CHROMAWERX-TUNABLE WHITE

Custom 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 2700K 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.

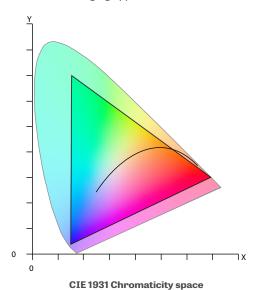






CHROMAWERX - RGBW

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 standalone color changing applications.



ELECTRICAL REMOTE

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

DALI (Duo Only)

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%.

0-10V (Sola)

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Using a single 0-10V control signal, the fixture warms in color temperature as it dims down to 1% and 2200K. At maximum driver load, efficiency<86%, PF>0.9, THD<20%.

0-10V (Duo)

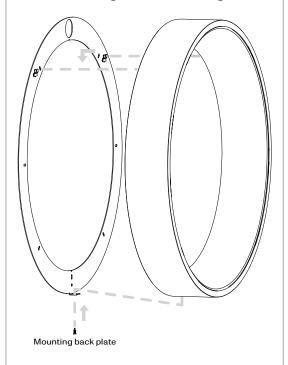
Factory-set adjustable output current LED driver with universal (120-277VAC) input. Controlled via two individual 0-10V signals, one for setting the intensity of the fixture down to a minimum of 1% and the other for adjusting the CCT of the fixture (default range of 2700K-6500K). Rated life of 50,000 hours at 70°C maximum driver case temperature and 100% load conditions. Typical efficiency of 86%, PF>0.9, THD<20% at 100% load conditions.

DMX (Quadro & Duo only)

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, either two channels of LEDs (warmwhite & cool-white) 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%.

MOUNTING

Togo wall creates an arresting impression with a glowing ring of light. Available in 18" and 24" diameters, the 4" depth meets ADA requirements. The driver is housed in a remote-mounted enclosure suitable for accessible installation above the ceiling, behind the wall, or in a closet. Class II wiring from driver to the luminaire can run up to 50 feet. Visit our web site at www.lumwnwerx.com to download the wiring distance instruction guide.



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FINISH

Interior - 95% reflective, matte white powder coating

Exterior - Side trim is offered in a range of vibrant color powder coatings.

CONSTRUCTION

Housing - Rolled and seamlessly welded aluminum extrusion 0.125 in thick, wide variety of colored powder coating

Diffuser - Uniform Lambertian Optic, thermoformed impact modified acrylic, completely enclosed

Mounting back plate - 16 GA cold rolled steel, powder coated color to match housing

WEIGHT

Togo 18 - 4.4lbs - 2kg

CERTIFICATIONS

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

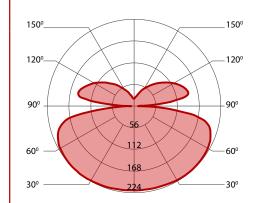
WARRANTY

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.

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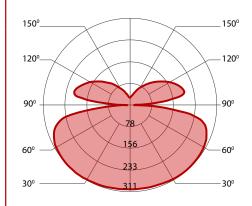
1800 LUMEN AT 90CRI - LOW OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	2700K	20	1800	89
low output	3000K	19.5	1800	92
low output	3500K	19	1800	95
low output	4000K	19.5	1800	92
low output	5000K	17.5	1800	103
low output	6500K	17.5	1800	102

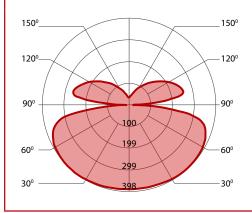
2500 LUMEN AT 90CRI - MEDIUM OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	2700K	29	2500	86
medium output	3000K	28	2500	90
medium output	3500K	27	2500	92
medium output	4000K	28	2500	90
medium output	5000K	25	2500	100
medium output	6500K	25.5	2500	99

3200 LUMEN AT 90CRI - HIGH OUTPUT



PERFORMANCE

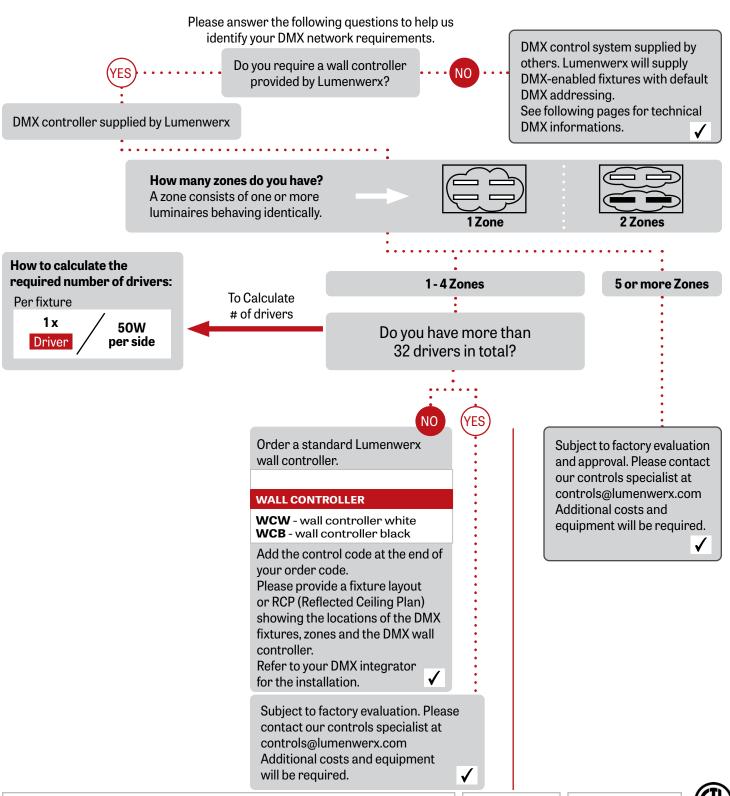
LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
high output	2700K	38	3200	84
high output	3000K	37	3200	87
high output	3500K	35.5	3200	90
high output	4000K	37	3200	87
high output	5000K	32.5	3200	98
high output	6500K	33	3200	97



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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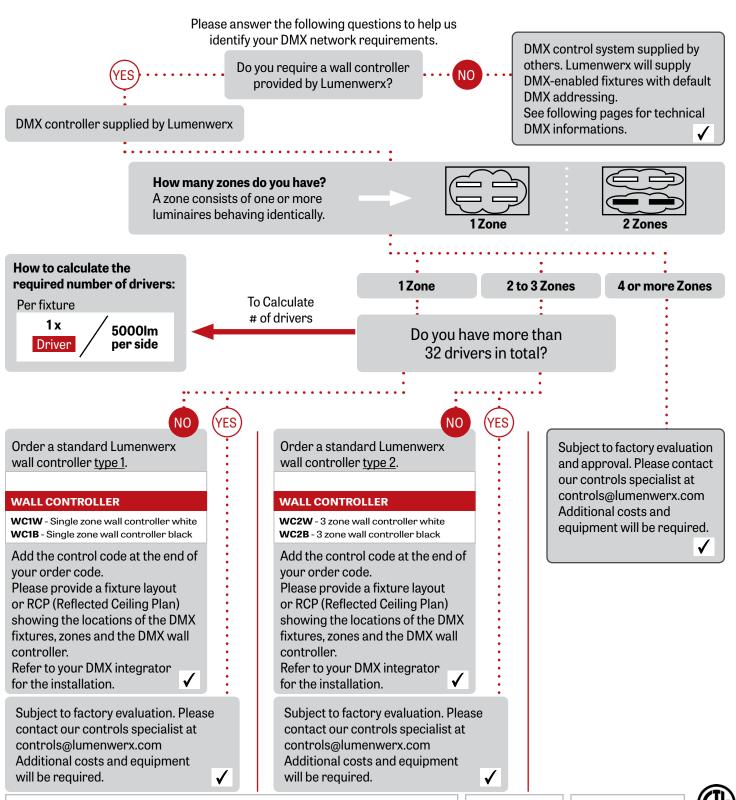
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CHROMAWERX QUADRO - RGBW

QUADRO DMX SPECIFICATION

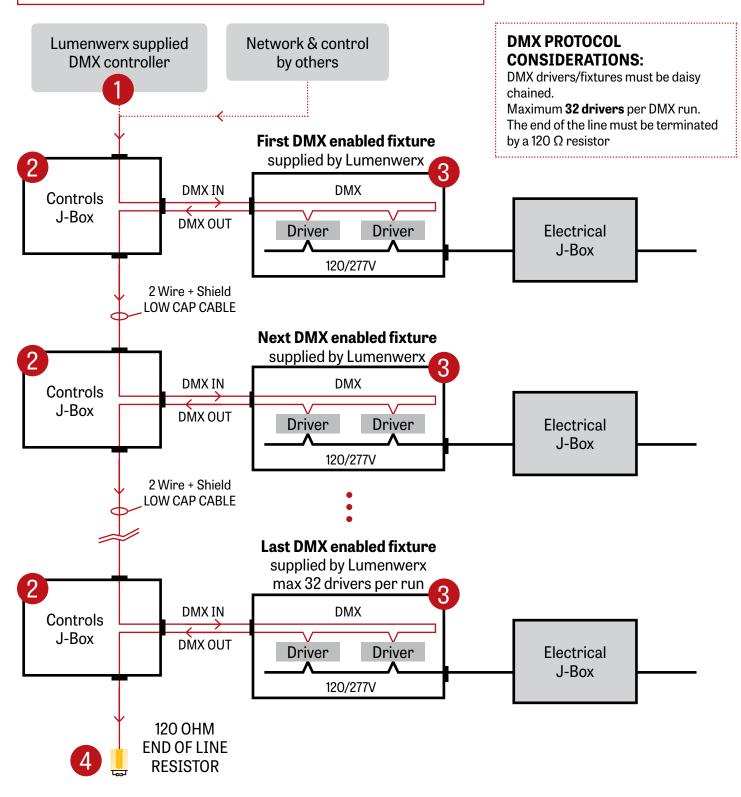
A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. When placing the PO, please provide the contact information of your DMX integrator.





CHROMAWERX TUNABLE WHITE AND RGBW

GENERIC DMX NETWORK ARCHITECTURE



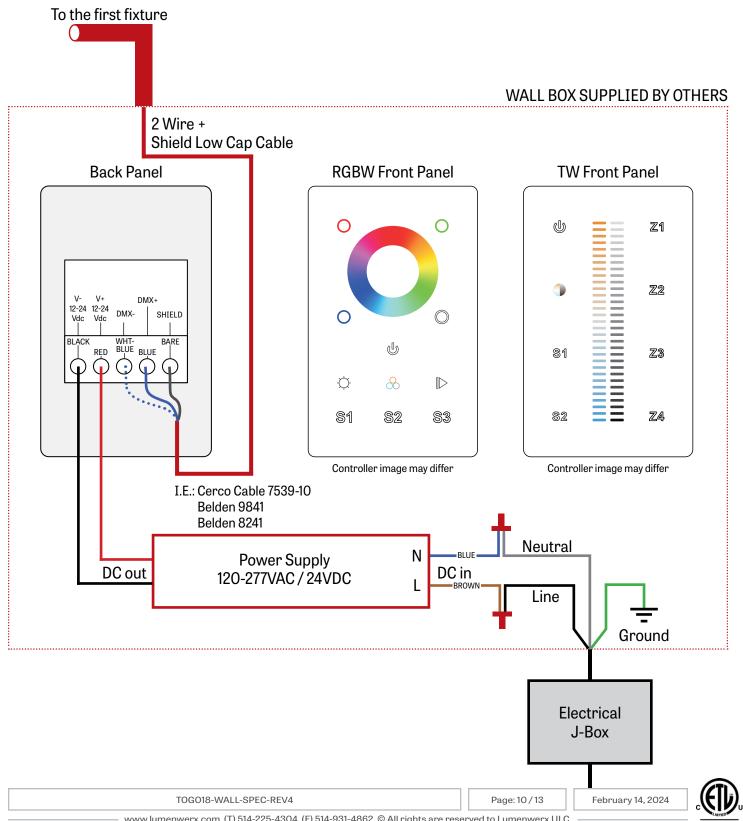




CHROMAWERX TUNABLE WHITE AND RGBW

1

LUMENWERX SUPPLIED DMX CONTROLLER

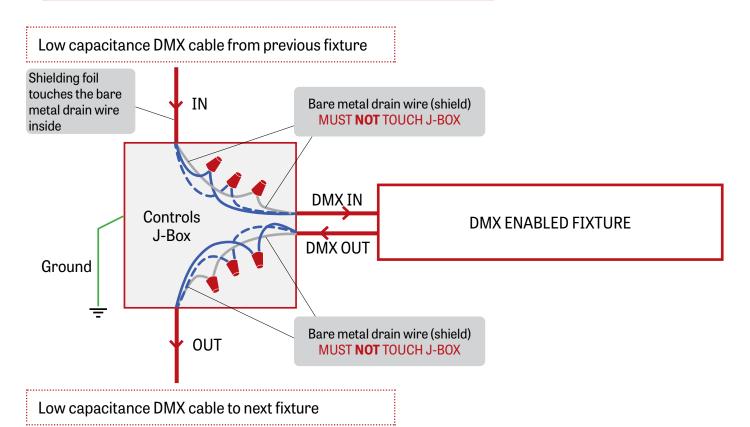




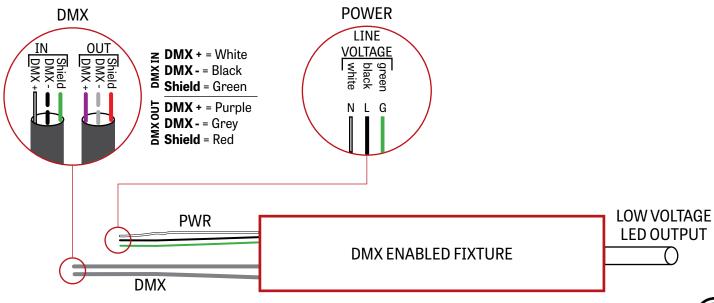
CHROMAWERX TUNABLE WHITE AND RGBW

2

J-BOX DMX DAISY CHAIN DETAIL







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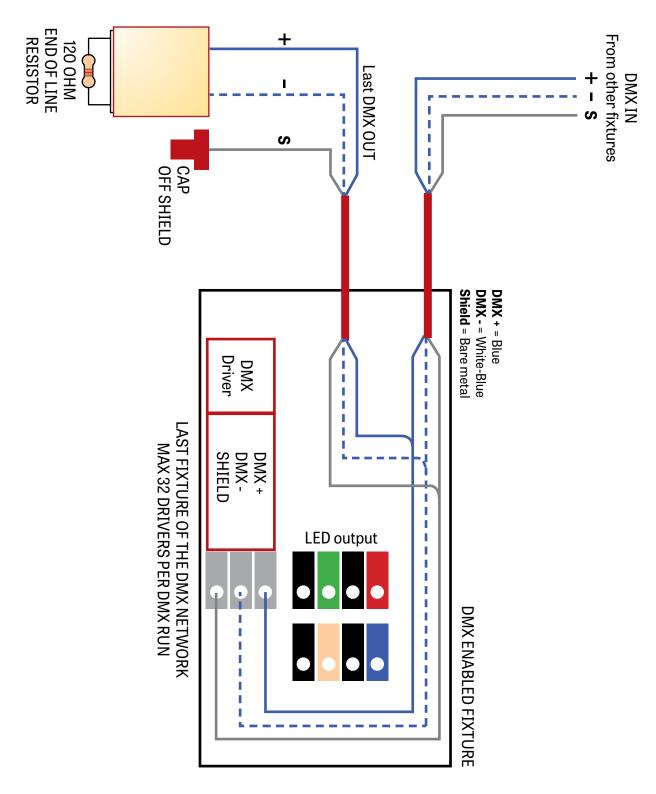




CHROMAWERX TUNABLE WHITE AND RGBW

4

LAST DMX CONNECTION DETAIL







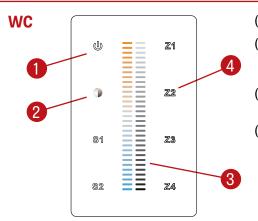
CHROMAWERX TUNABLE WHITE AND RGBW

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

2

5

1

4

3

\$1

\$2

\$3

6

(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 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.

WC2
2
5
3
1
2
3
6

(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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