

POP RECESSED

REGRESSED ROUND
CHROMAWERX - QUADRO - RGBW

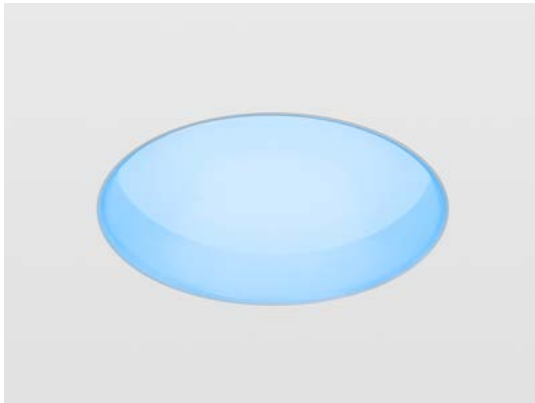


LUMENWERX



Project: _____

Type: _____



DESCRIPTION

Pop Recessed Regressed Round is a flexible, elegant, low-glare luminaire available in three different sizes. Its innovative, precision-crafted Uniform Lambertian Optic (ULO) allows all models to have a Uniform Glare Rating (UGR) of <19, beneficial for creating well-balanced, low glare architectural spaces. The fixture can be integrated in various grid ceiling and gypsum board setups. Pop Regressed Round comes in Chromawerx Quadro. Consult web pages for Static White, BIOS LED, Chromawerx Sola and Duo solutions for Pop Regressed Round.

Order Guide

LUMINAIRE ID	SIZE	OPTIC	LIGHT SOURCE ¹	OUTPUT WATTAGE ²						
PORRGRO		ULO								
PORRGRO - Pop Recessed Regressed Round	24 - 24" diameter 36 - 36" diameter 48 - 48" diameter	ULO - Uniform Lambertian Optic	QUADRO - Four-channel RGB with 3500K/80CRI RS - Red solid BS - Blue solid GS - Green solid	<table border="0"> <tr> <td>Ø 24"</td> <td>40W - 40W output (930 white lumens)</td> </tr> <tr> <td>Ø 36"</td> <td>90W - 90W output (2100 white lumens)</td> </tr> <tr> <td>Ø 48"</td> <td>160W - 160W output (3730 white lumens)</td> </tr> </table> <p>² For solid colors, consult factory.</p>	Ø 24"	40W - 40W output (930 white lumens)	Ø 36"	90W - 90W output (2100 white lumens)	Ø 48"	160W - 160W output (3730 white lumens)
Ø 24"	40W - 40W output (930 white lumens)									
Ø 36"	90W - 90W output (2100 white lumens)									
Ø 48"	160W - 160W output (3730 white lumens)									
			¹ Static white, BIOS, Chromawerx Sola and Duo also available. Consult other spec sheets.							

VOLTAGE	DRIVER ³	ELECTRICAL	MOUNTING	FINISH	OPTIONS
		1			
120 -120V 277 - 277V UNV - 120V-277V	DMX ^{4,5} - DMX DA ^{4,6} - DALI D1 ⁶ - 0-10V	1 - 1 circuit	GRD ⁷ - Grid ceiling DTR - Drywall trim DMF - Drywall mud flange	W - Matte white CF# - Custom finish, specify RAL#	FU120 - Fuse 120V FU277 - Fuse 277V FWC - Flexible whip cable (6' std) CP - Chicago Plenum NA - None
³ PoE (Power-over-Ethernet) compatible. Consult factory for details. ⁴ On-site commissioning is required. ⁵ To specify, see pages 5 to 10. ⁶ Available for solid colors only.		⁷ Not available with Ø 48".			

Accessories

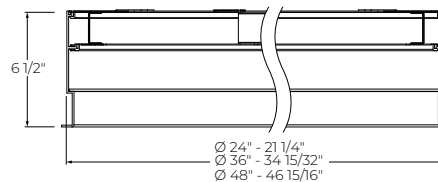
Optional, order separately

DMX WALL CONTROLLER ⁸

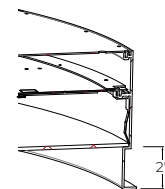
WC1W - Single zone wall controller white
WC1B - Single zone wall controller black
WC2W - 3 zone wall controller white
WC2B - 3 zone wall controller black

⁸ Available with DMX only. For more information, see pages 5 to 10, or consult factory.

Section View



3D Cross section



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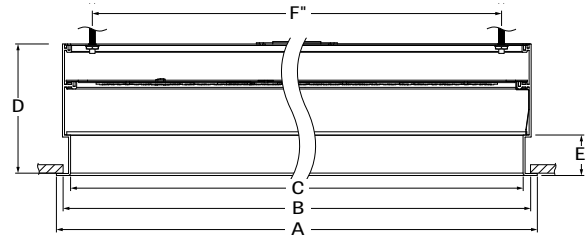
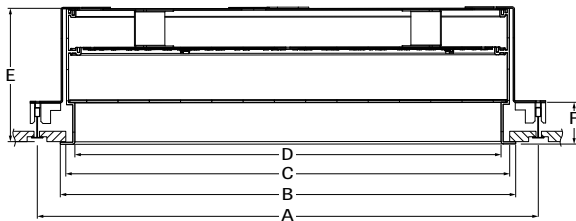
Dimensions

GRD - Grid ceiling

SIZE	A	B	C	D	E	F
24	24"	21 27/32"	21 1/4"	20 7/16"	6 13/32"	2"
36	48"	35 3/32"	34 1/2"	33 11/16"	6 13/32"	2"
48	N/A	N/A	N/A	N/A	N/A	N/A

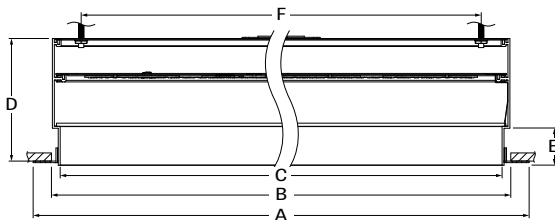
DTR - Drywall trim

SIZE	A	B	C	D	E	F
24	21 27/32"	21 1/2"	20 7/16"	6 13/32"	2"	14"
36	35 3/32"	34 25/32"	33 11/16"	6 13/32"	2"	32"
48	47 9/16"	47"	46 5/32"	6 13/32"	2"	44"



DMF - Drywall mud flange

SIZE	A	B	C	D	E	F
24	23 3/16"	21 1/2"	20 9/16"	20 7/16"	2"	14"
36	36 3/8"	34 25/32"	33 11/16"	6 9/32"	2"	32"
48	48 29/32"	47"	46 1/8"	6 9/32"	2"	44"



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Technical Specifications

OPTIC

Uniform Lambertian Optic (ULO) - This optic provides a smooth homogenous glow with even illumination and consistent distribution. With Pop Regressed, ULO offers excellent visual comfort in all aperture sizes, from smallest to largest.

LIGHT SOURCE

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 L90 lumen maintenance greater than 60,000 hours reported, 150,000 hours projected. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.



CHROMAWERX - QUADRO

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:

DMX

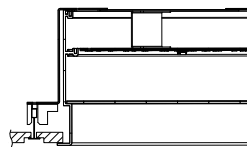
Factory-set, adjustable output current, multi-channel LED driver with universal (120-277VAC) input. Using DMX wall controls (optionally supplied by Lumenwerx) or an existing DMX control system, four channels of LEDs (Red/Green/Blue/White) are independently adjustable. Each DMX driver has multiple output 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%.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire, or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, Duo (tunable white), Quadro (RGBW) emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

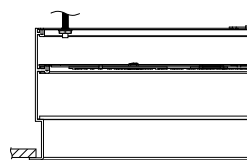
MOUNTING OPTIONS

Recessed mount into exposed or concealed T-Bar or Tegular grid ceiling.

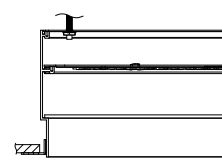


GRD - Grid ceiling

Recessed mount in drywall ceilings with trim or mud flange options.



DTR - Drywall trim



DMF - Drywall mud flange

FINISH

Interior - 95% reflective, matte white powder coating.

Exterior - Matte white powder coating. Custom finishes are also available.

CONSTRUCTION

Housing - Curved Aluminum extrusion.

Diffuser - 0.125" thick white acrylic.

WEIGHT

Ø 24" - 13.2 lbs - 6 kg

Ø 36" - 26.9 lbs - 12.2 kg

Ø 48" - 59.1 lbs - 26.8 kg

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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

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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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.**

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
Less than 12.5W/ft, direct only

per 4' fixture
Driver Driver
2x driver
Above 12.5W/ft or for all direct/indirect fixture

To Calculate # of drivers

1 Zone

2 to 3 Zones

4 or more Zones

Do you have more than 32 drivers in total?

NO

YES

Order a standard Lumenwerx wall controller type 1.

WALL CONTROLLER

WC1W - Single zone wall controller white
WC1B - Single zone 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. Additional cost and equipment will be required. ✓

Order a standard Lumenwerx wall controller type 2.

WALL CONTROLLER

WC2W - 3 zone wall controller white
WC2B - 3 zone 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. Additional cost and equipment will be required. ✓

Subject to factory evaluation and approval. Please contact our controls specialist at controls@lumenwerx.com. Additional cost and equipment will be required. ✓

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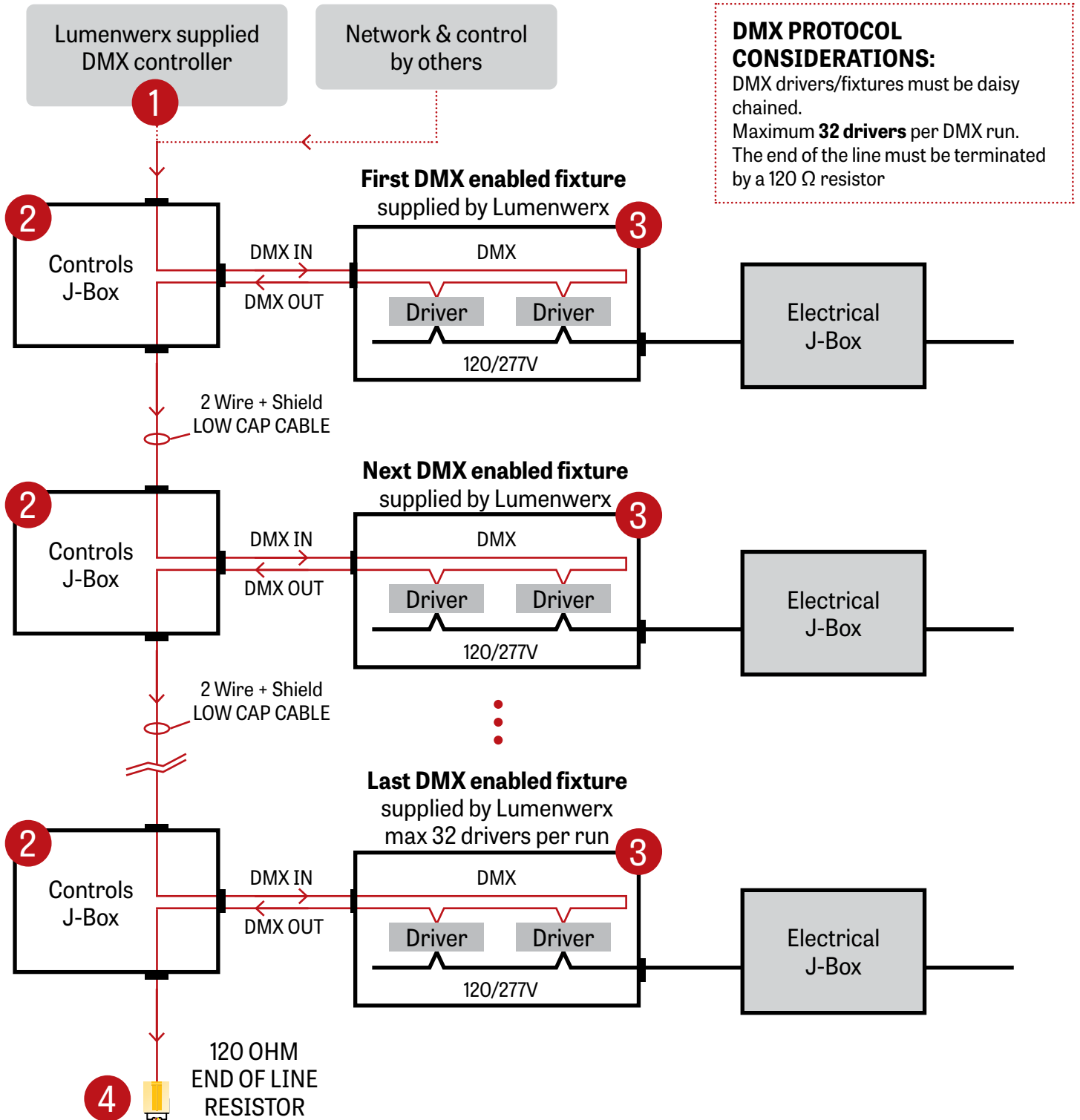
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GENERIC DMX NETWORK ARCHITECTURE



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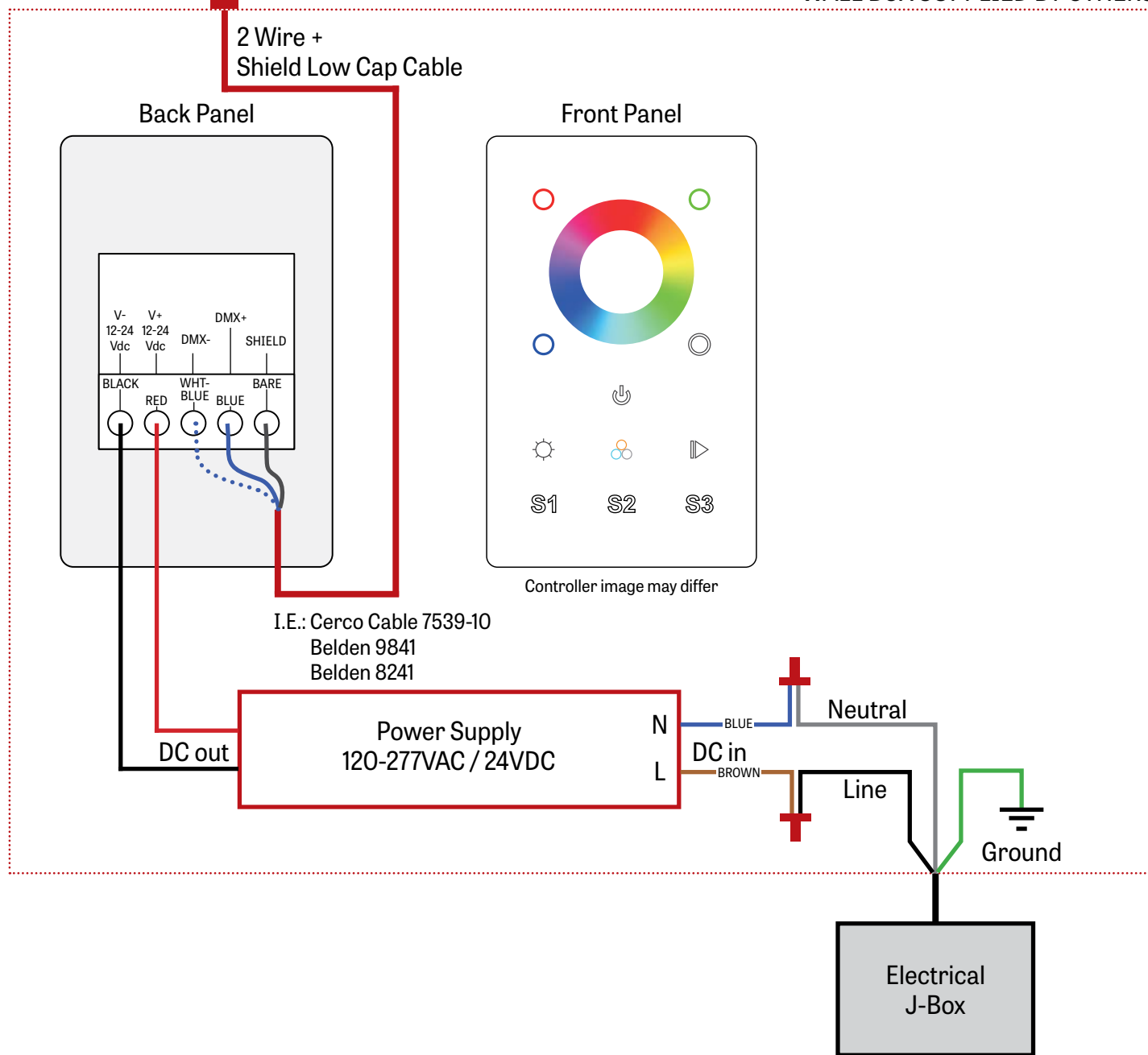


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1 LUMENWERX SUPPLIED DMX CONTROLLER

To the first fixture

WALL BOX SUPPLIED BY OTHERS



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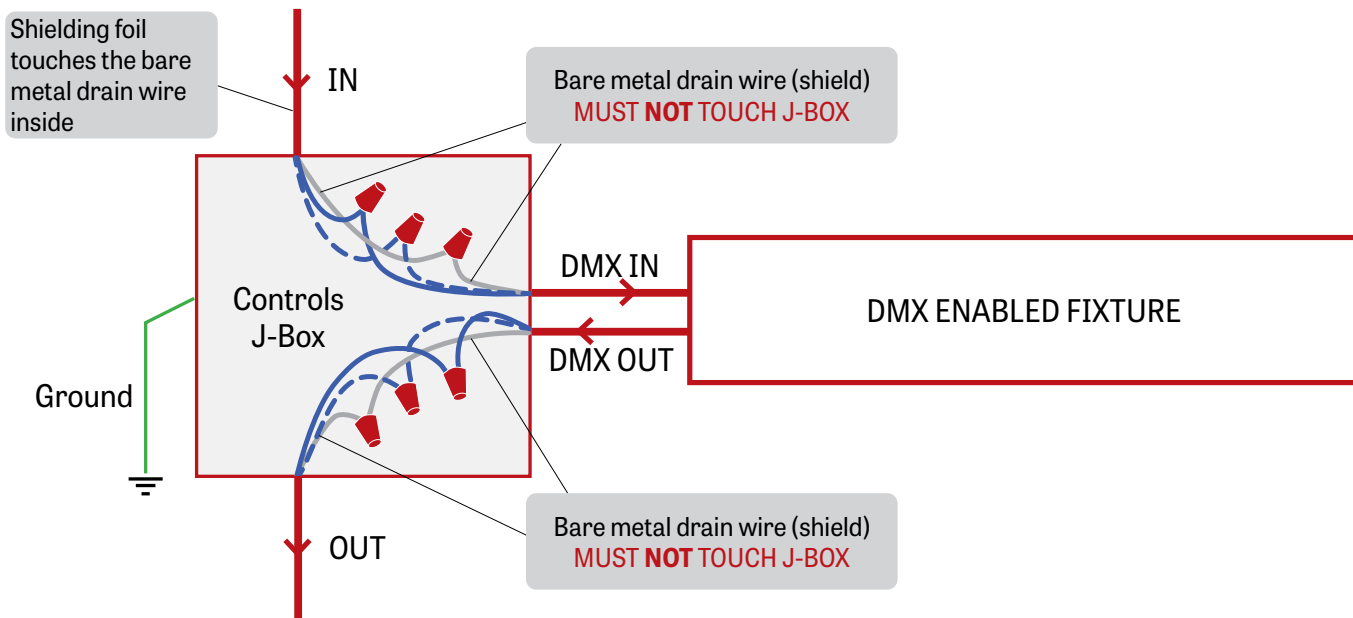
CHROMAWERX - QUADRO - RGBW



LUMENWERX

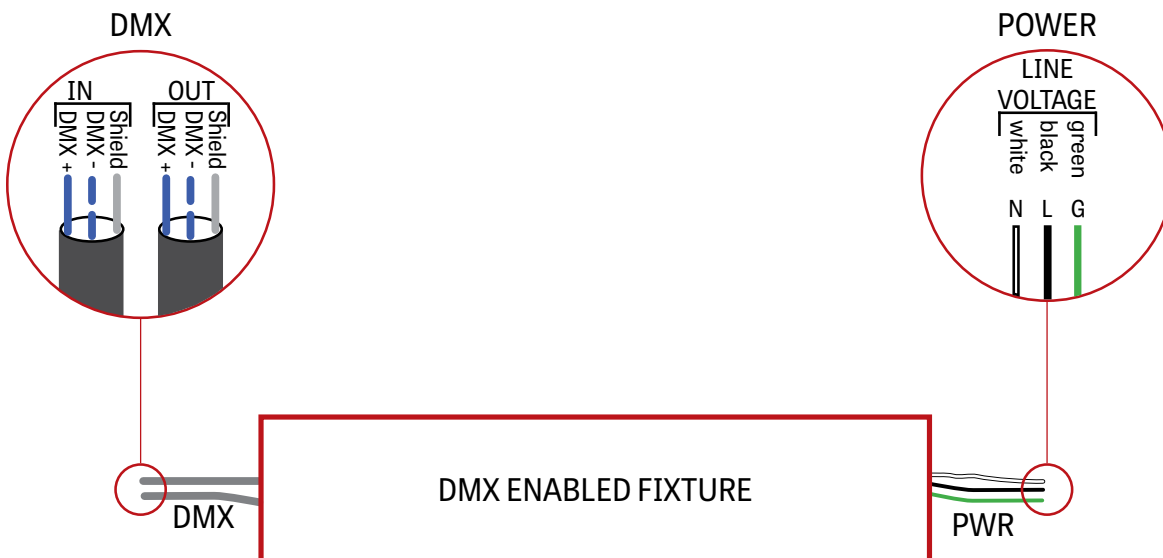
2 J-BOX DMX DAISY CHAIN DETAIL

Low capacitance DMX Cable from Previous Fixture



Low capacitance DMX cable to next fixture

3 DMX CONNECTION RECESSED & SURFACE



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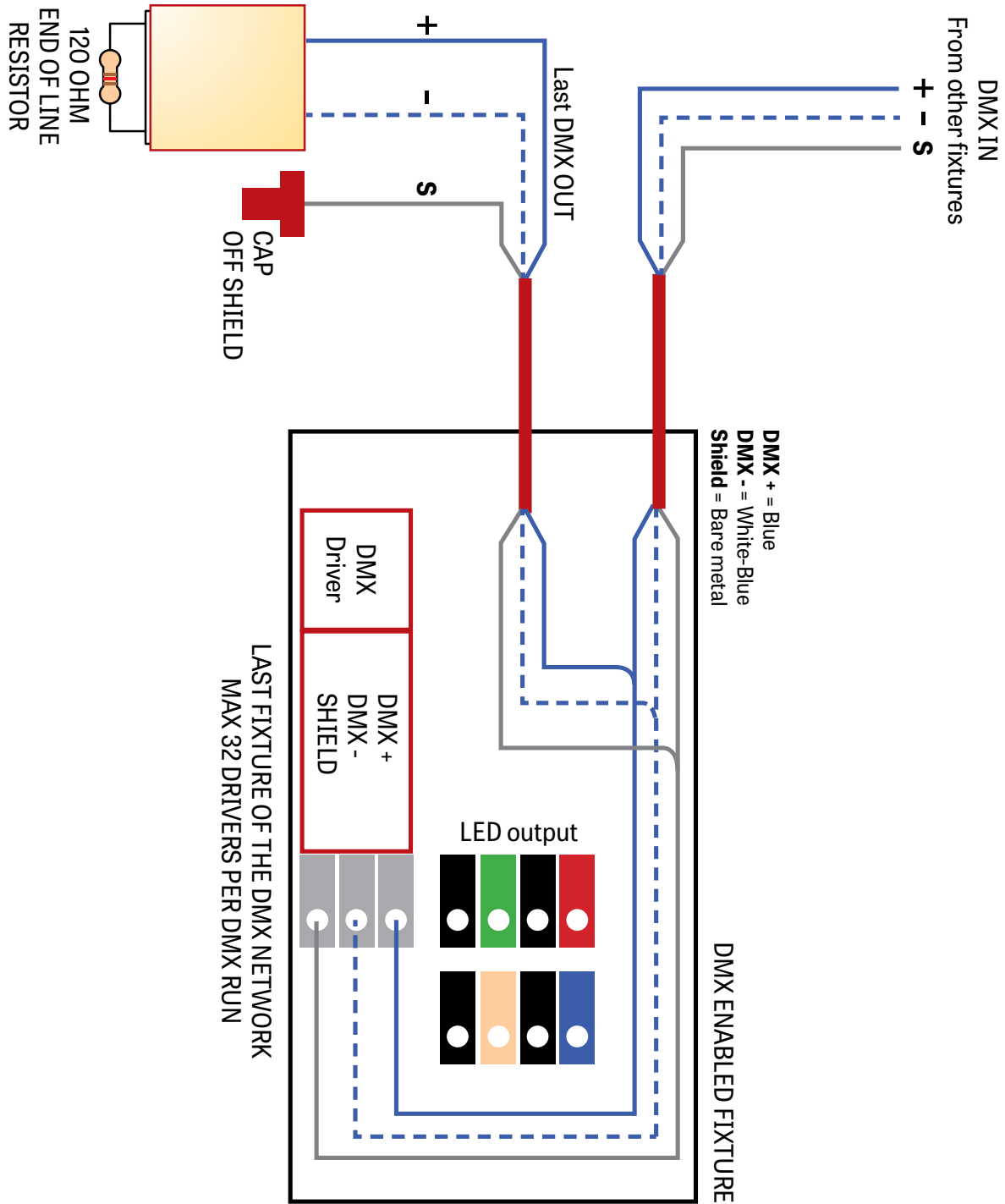
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4 DMX LAST FIXTURE DETAIL



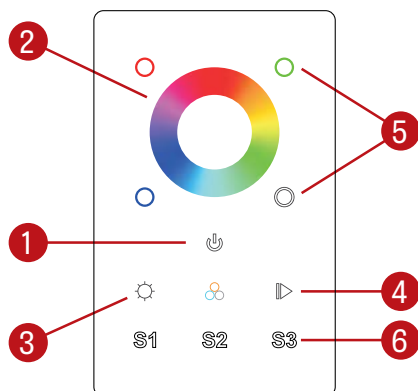
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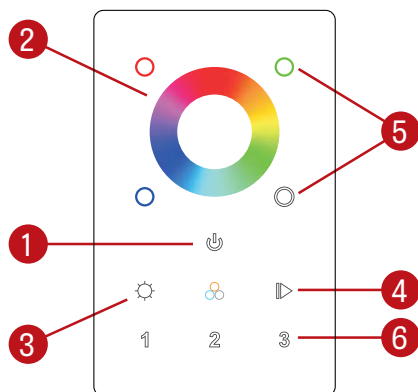
DMX WALL CONTROLLER

WC1



- (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.

WC2



- (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