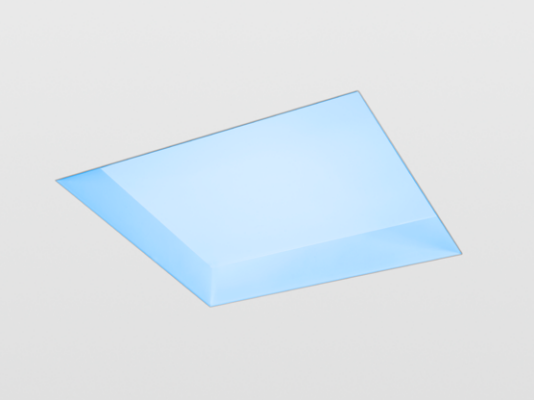
POP RECESSED REGRESSED

SQUARE AND RECTANGULAR
CHROMAWERX - QUADRO - RGBW

Project: _____

Type: _____



DESCRIPTION

Pop Recessed Regressed Square is a flexible, elegant, low-glare luminaire available in 10 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 Square comes in Chromawerx QUADRO. Consult web pages for static white, Chromawerx SOLA and DUO solutions for Pop Regressed Square.

Order Guide

LUMINAIRE ID	SIZE	OPTIC	LIGHT SOURCE [1]	OUTPUT WATTAGE [2]	VOLTAGE
PORRGSQ		**ULO**			
PORRGSQ - Pop Recessed Regressed Square	**2FTX4FT** - 2' x 4' **4FTX4FT** - 4' x 4'	**ULO** - Uniform Lambertian Optic	**QUADRO** - Four-channel RGB with 3500K/80 CRI **RS** - Red solid **BS** - Blue solid **GS** - Green solid [1] Static white, Chromawerx SOLA and DUO also available. Consult other spec sheets.	2' x 4' **102W** - 102 W output (3310 white lumens) 4' x 4' **204W** - 204 W output (6650 white lumens) [2] For solid colors, consult factory.	**120V** - 120V **277V** - 277V **UNV** - 120V-277V

DRIVER [3]		ELECTRICAL	MOUNTING			FINISH	OPTIONS [8]
		1C					
Integral	Remote [6]	**1C** - 1 circuit	On-grid	Drywall	Side-by-side [7]	**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 [8] Separate codes with a "+" if more than one is specified.
QUADRO **DMX** [4,5] - DMX Solid colors **D1** - 1% 0-10V **DA** [5] - DALI	QUADRO **RDMX** [4,5] - DMX Solid colors **RD1** - 1% 0-10V **RDA** [5] - DALI		**GRD** - Grid ceiling	**DF** - Drywall trim kit **DMF** - Drywall mud flange	**SBS** - Side-by-side mounting		
[3] PoE (Power-over-Ethernet) compatible. Consult factory for details. [4] For more information, see pages 5 to 10. [5] On-site commissioning is required. [6] A remote driver box is provided.			[7] A drawing is required to show your side-by-side mounting configuration.				

Accessories

Optional, order separately

DMX WALL CONTROLLER [9]
WC1W - Single zone wall controller white **WC1B** - Single zone wall controller black **WC2W** - 3 zone wall controller white **WC2B** - 3 zone wall controller black [9] Available with DMX only. For more information, see pages 5 to 10, or consult factory.

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Lumenwerx reserves the right to modify product specifications without notification.
© Lumenwerx, ULC. All rights reserved.

POP-RECESSED-REGRESSED-SQUARE-RGBW-SPEC-REV4 September112024

POP RECESSED REGRESSED

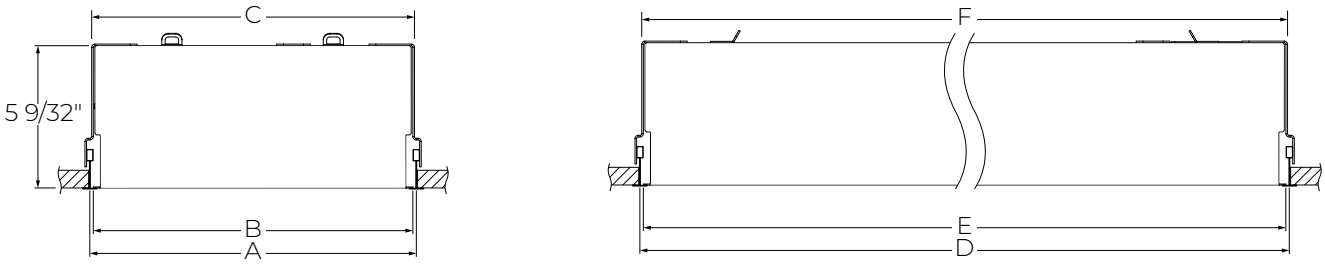
SQUARE AND RECTANGULAR

CHROMAWERX - QUADRO - RGBW

Dimensions (shown with 2' x 4')

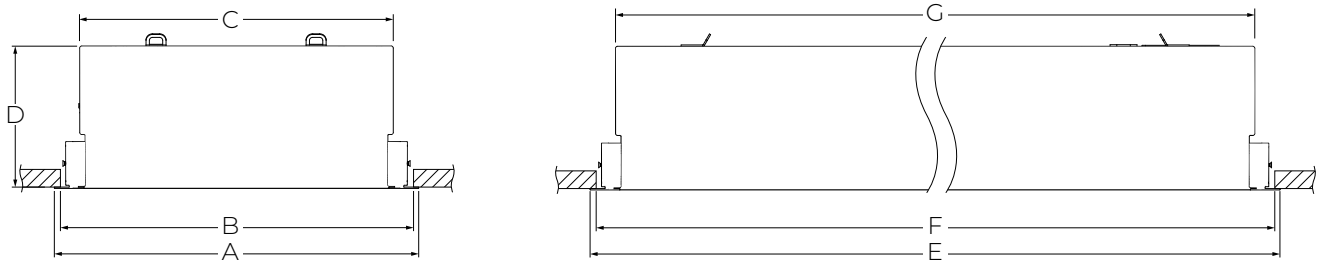
GRD - Grid ceiling, on-grid mounting

SIZE	BETWEEN T-BAR A	WITH FLANGES B	FIXTURE WIDTH C	BETWEEN T-BAR D	WITH FLANGES E	FIXTURE LENGTH F
2' x 4'	24"	23 7/8"	24"	48"	47 7/8"	48"
4' x 4'	48"	47 7/8"	48"	48"	47 7/8"	48"



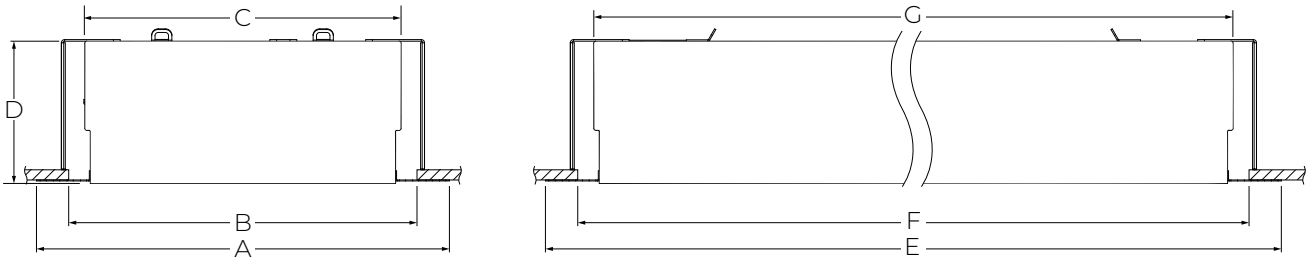
DF - Drywall trim kit

SIZE	TRIM KIT WiDTH A	CEILING CUT-OUT B	FIXTURE WITDTH C	FIXTURE HEIGHT D	TRIM KIT LENGTH E	CEILING CUT-OUT F	FIXTURE LENGTH G
2' x 4'	25 21/32"	25 1/4"	23 3/4"	5 9/32"	49 21/32"	49 1/4"	47 3/4
4' x 4'	49 21/32"	49 1/4"	47 3/4"	5 9/32"	49 21/32"	49 1/4"	47 3/4"



DMF - Drywall mud flange

SIZE	BEWTEEN FLANGES A	CEILING CUT-OUT B	FIXTURE WIDTH C	FIXTURE HEIGHT D	BETWEEN FLANGES E	CEILING CUT-OUT F	FIXTURE LENGTH G
2' x 4'	27 11/32"	24 3/4"	23 3/4"	5 9/32"	51 11/32"	48 3/4"	47 3/4"
4' x 4'	51 11/32"	48 3/4"	47 3/4"	5 9/32"	51 11/32"	48 3/4"	47 3/4"



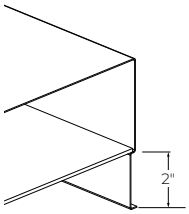
3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Lumenwerx reserves the right to modify product specifications without notification.
© Lumenwerx, ULC. All rights reserved.

POP RECESSED REGRESSED

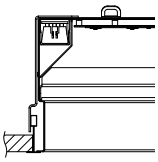
SQUARE AND RECTANGULAR
CHROMAWERX - QUADRO - RGBW

Lens position



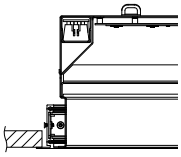
Mounting

On-grid

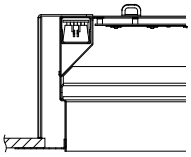


GRD - Grid ceiling

Drywall

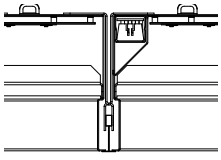


DF - Drywall trim kit



DMF - Drywall mud flange

Side-by-side



SBS - Side-by-side mounting

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Lumenwerx reserves the right to modify
product specifications without notification.
© Lumenwerx, ULC. All rights reserved.
POP-RECESSED-REGRESSED-SQUARE-RGBW-SPEC-REV4 September112024

POP RECESSED REGRESSED

SQUARE AND RECTANGULAR
CHROMAWERX - QUADRO - RGBW

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 (120-277 VAC) 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

Recessed fixtures can be mounted into grid ceilings, as well as in drywall ceilings with trim or mud flange options.
The fixture can also be mounted in a side-by-side group formation. To determine brackets, and mounting details, a drawing illustrating your side-by-side configuration, with ceiling details, is required.

FINISH

Interior: 95% reflective, matte white powder coating
Exterior: Matte white powder coating. Custom finishes are also available.

CONSTRUCTION

Housing: Cold rolled steel
Lens: Acrylic

WEIGHT

2' x 4': 39.9 lbs - 18.1 kg
4' x 4': 72.2 lbs - 32.7 kg

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) when specified with CP option.
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.

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Lumenwerx reserves the right to modify product specifications without notification.
© Lumenwerx, ULC. All rights reserved.
POP-RECESSED-REGRESSED-SQUARE-RGBW-SPEC-REV4 September11,2024

POP RECESSED REGRESSED

SQUARE AND RECTANGULAR

CHROMAWERX - QUADRO - RGBW

Lumenwerx

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.

Do you require a wall controller provided by Lumenwerx?

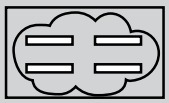
YES

DMX controller supplied 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. ✓

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

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. ✓

YES

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

NO

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. ✓

YES

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

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

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Intertek

Lumenwerx reserves the right to modify product specifications without notification.
© Lumenwerx, ULC. All rights reserved.

POP-RECESSED-REGRESSED-SQUARE-RGBW-SPEC-REV4 September112024

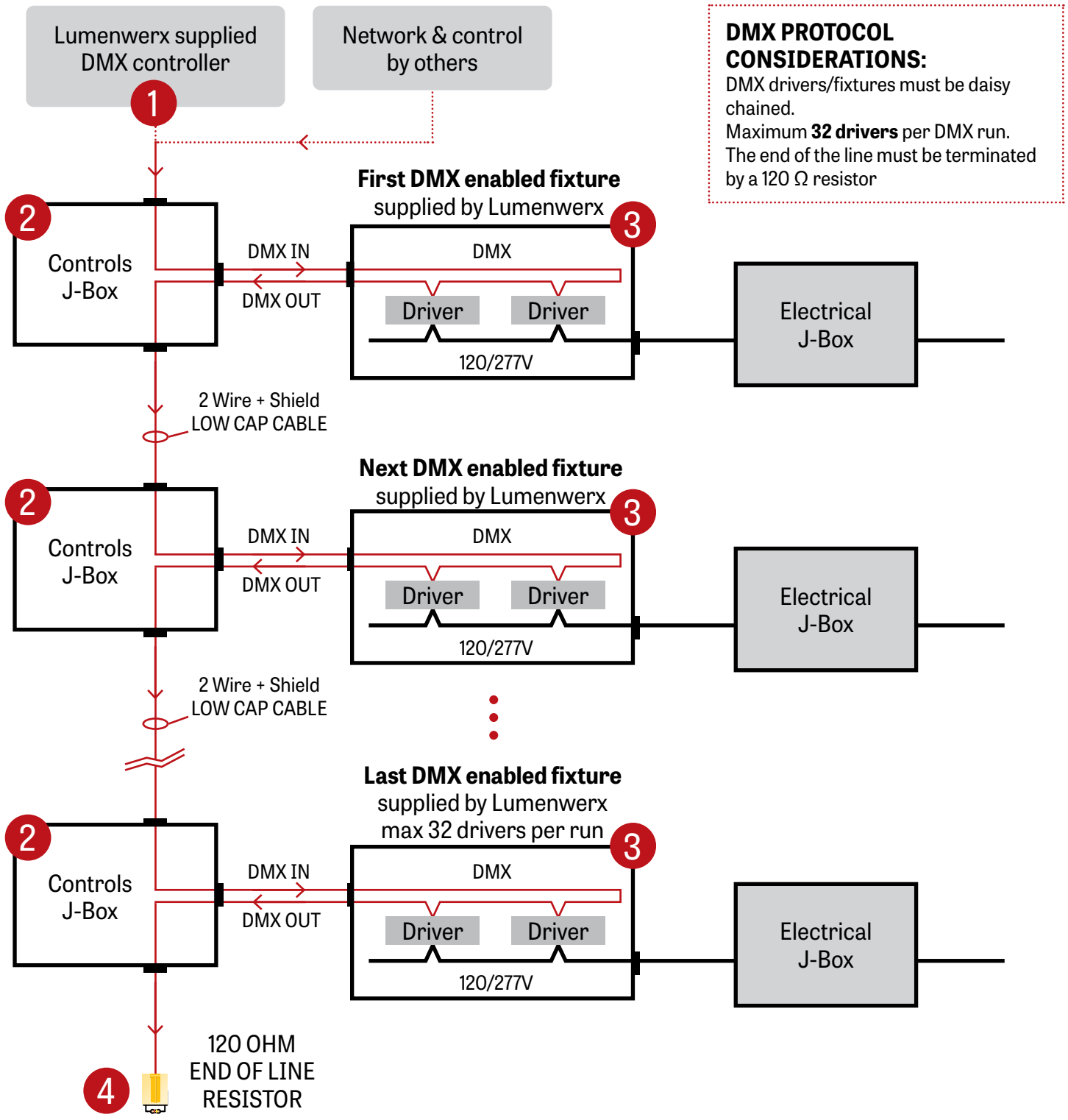
POP RECESSED REGRESSED

SQUARE AND RECTANGULAR

CHROMAWERX - QUADRO - RGBW

Lumenwerx

GENERIC DMX NETWORK ARCHITECTURE



DMX PROTOCOL CONSIDERATIONS:

DMX drivers/fixtures must be daisy chained.

Maximum **32 drivers** per DMX run.

The end of the line must be terminated by a 120 Ω resistor

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Lumenwerx reserves the right to modify product specifications without notification.
© Lumenwerx, ULC. All rights reserved.

POP-RECESSED-REGRESSED-SQUARE-RGBW-SPEC-REV4 September112024

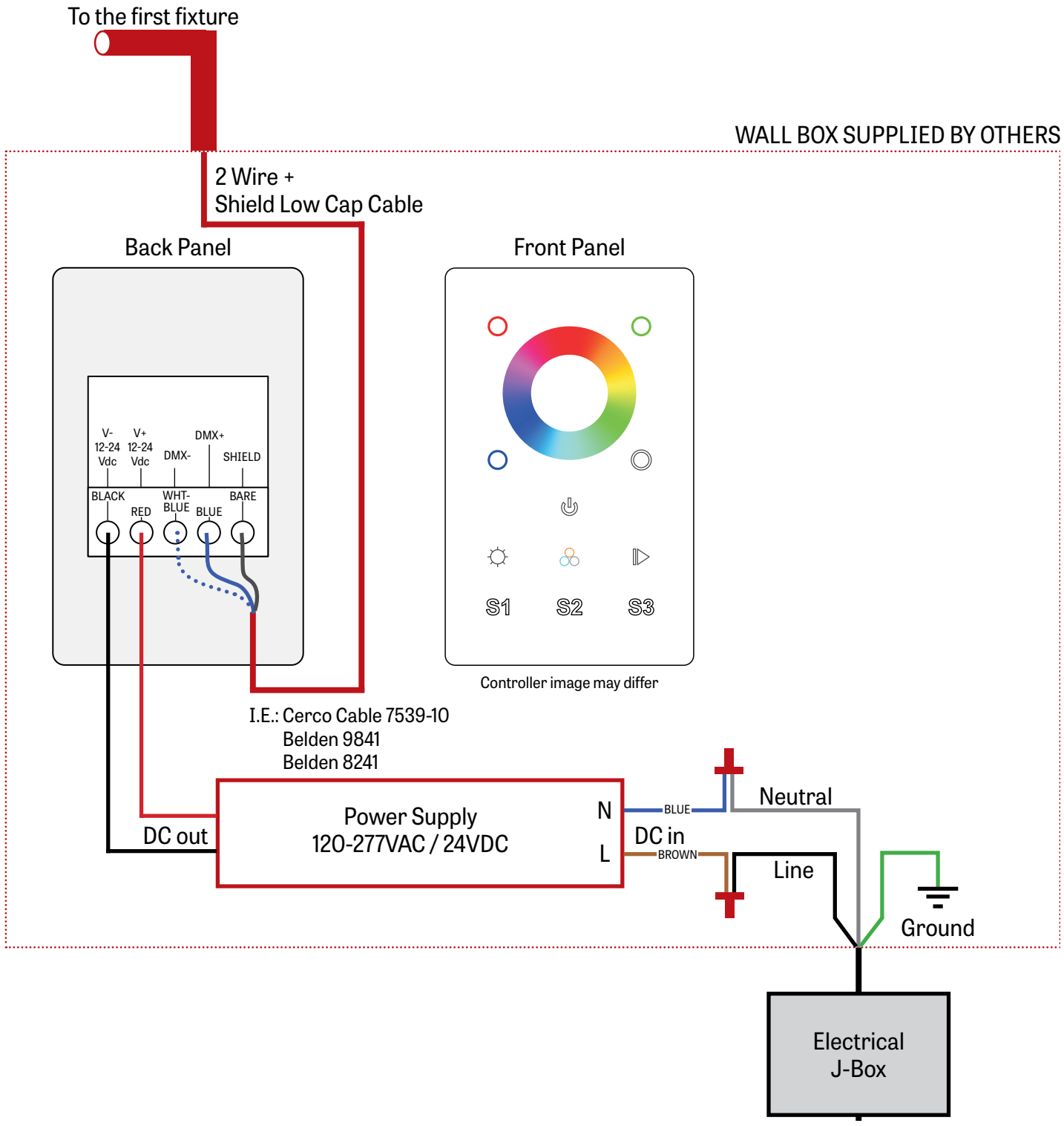
POP RECESSED REGRESSED

SQUARE AND RECTANGULAR

CHROMAWERX - QUADRO - RGBW

Lumenwerx

1 LUMENWERX SUPPLIED DMX CONTROLLER



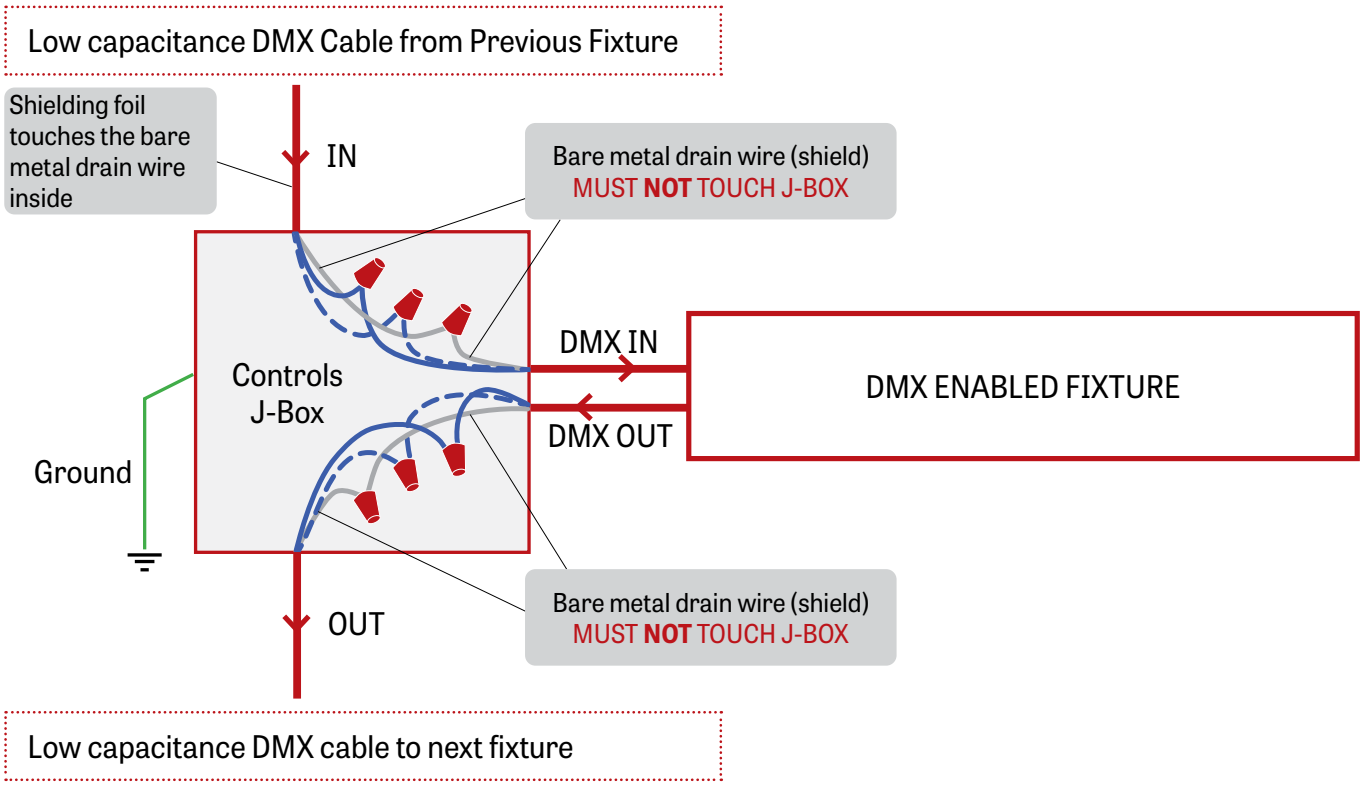
3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Intertek

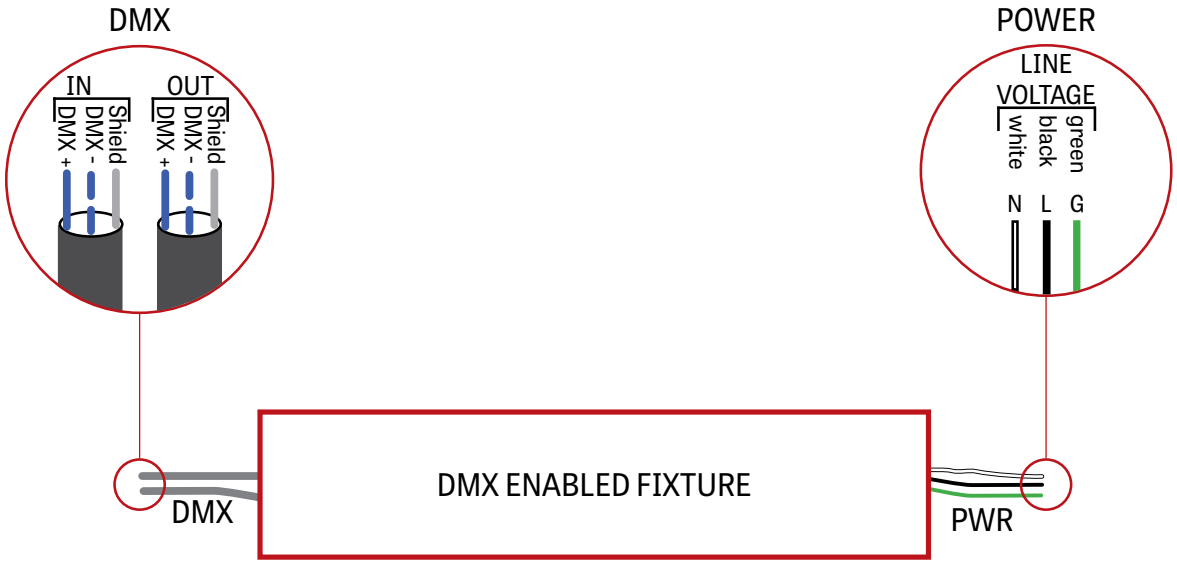
Lumenwerx reserves the right to modify
product specifications without notification.
© Lumenwerx, ULC. All rights reserved.

POP-RECESSED-REGRESSED-SQUARE-RGBW-SPEC-REV4 September112024

2 J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION RECESSED & SURFACE



3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Lumenwerx reserves the right to modify product specifications without notification.
© Lumenwerx, ULC. All rights reserved.

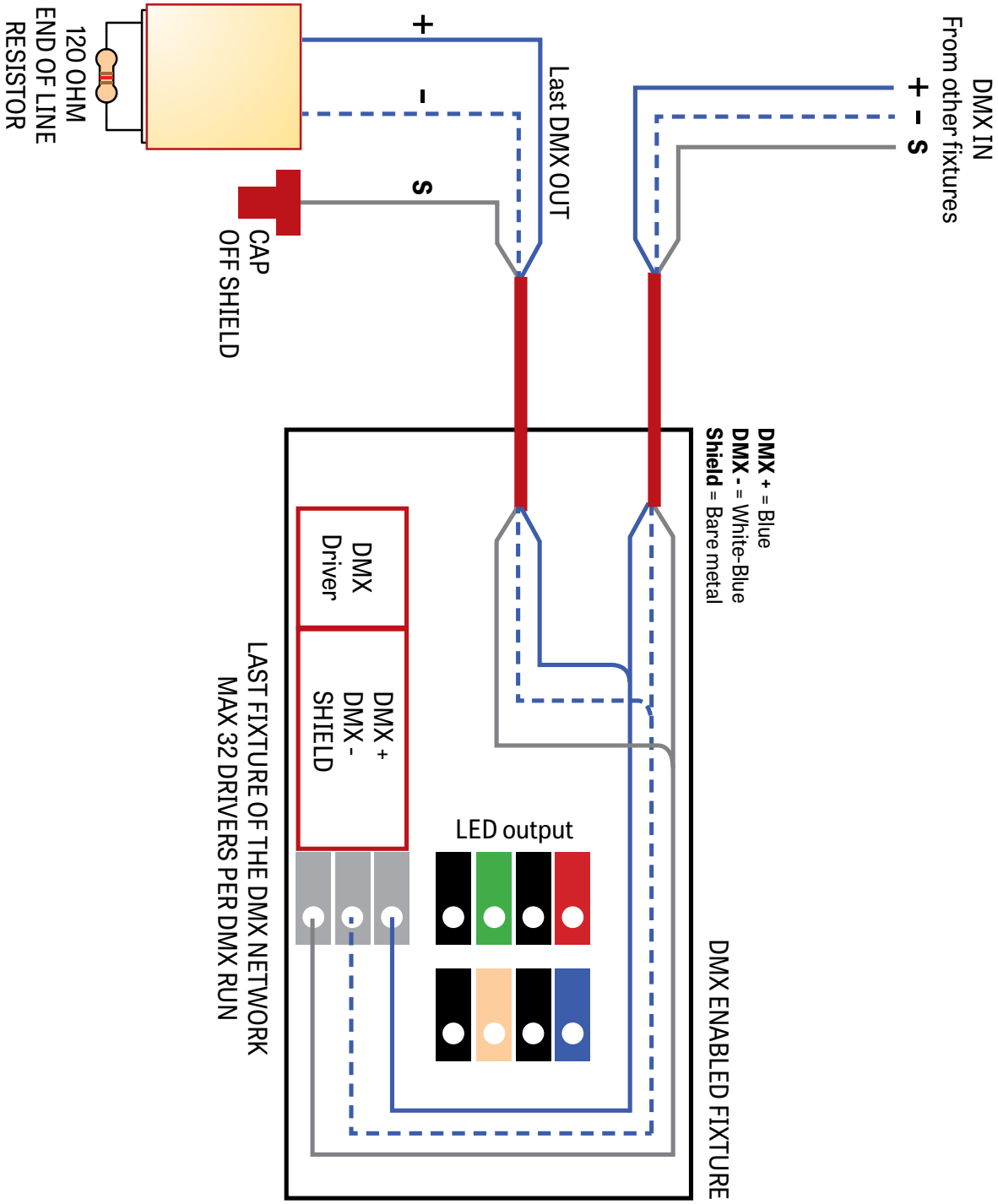
POP-RECESSED-REGRESSED-SQUARE-RGBW-SPEC-REV4 September112024

POP RECESSED REGRESSED

SQUARE AND RECTANGULAR

CHROMAWERX - QUADRO - RGBW

4 DMX LAST FIXTURE DETAIL



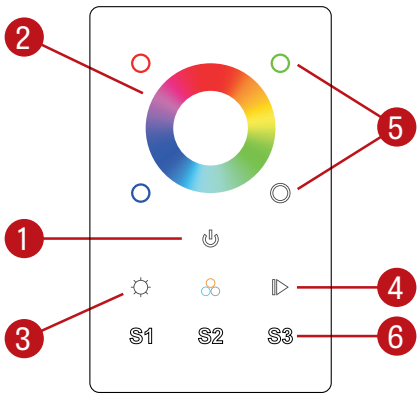
3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Lumenwerx reserves the right to modify
product specifications without notification.
© Lumenwerx, ULC. All rights reserved.

POP-RECESSED-REGRESSED-SQUARE-RGBW-SPEC-REV4 September112024

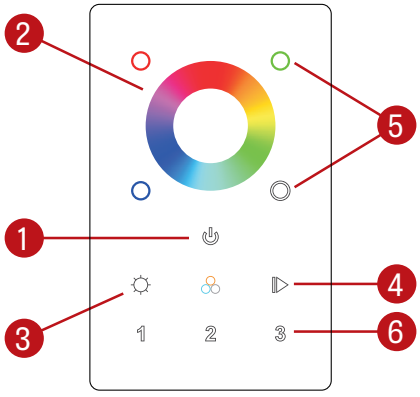
DMX WALL CONTROLLER

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

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9
T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

Lumenwerx reserves the right to modify product specifications without notification.
© Lumenwerx, ULC. All rights reserved.