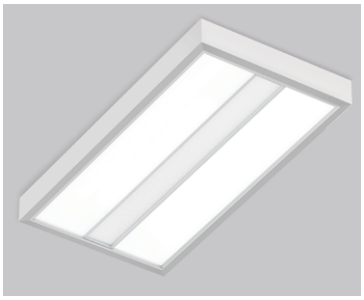
NOVA

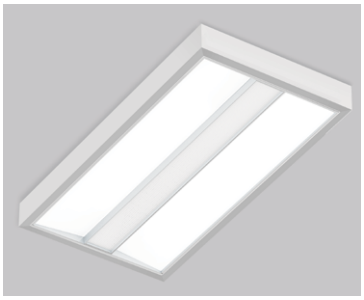
SURFACE
CHROMAWERX - QUADRO - RGBW

Project: _____

Type: _____



Nova Surface Flat



Nova Surface Slope

DESCRIPTION

Nova is an efficient architectural LED troffer with a distinctive luminous shielding that distributes gentle brightness from the sides of its central optical element. Using advanced LED engines, Nova provides highly efficient illumination and offers comprehensive ceiling, electrical, and controls options in 1'x4', 2'x2', and 2'x4' sizes. Nova is available with both Flat and Slope side diffusers. Nova is an ideal vehicle for Chromawerx color tuning in education, office, and healthcare applications where modular luminaires are used.

Order Guide

LUMINAIRE ID	SIZE	CENTER OPTIC	SIDE OPTIC	LIGHT SOURCE [1]	WHITE CRI Specify NA for solid colors	WHITE COLOR TEMP. Specify NA for solid colors
		PMO	**HLO**			
NOVSF - Nova Surface Flat **NOVSS** - Nova Surface Slope	**1FTX4FT** - 1' x 4' **2FTX2FT** - 2' x 2' **2FTX4FT** - 2' x 4'	**PMO** - Precision Micro-Prism Optic	**HLO** - High-Efficiency Lambertian Optic	**QUADRO** - RGBW 4-channel control **RS** - Red solid **GS** - Green solid **BS** - Blue solid [1] Static white, full spectrum, Chromawerx SOLA, and DUO also available. Consult other spec sheets.	**80CRI** - 80+ CRI **90CRI** - 90+ CRI **NA** - Not applicable	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K **NA** - Not applicable

LUMEN PACKAGE [2]		VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	FINISH	OPTION
				1C	**SUR**		
1' x 4' / 2' x 2'	2' x 4'	**120V** - 120V **277V** - 277V **UNV** - 120V-277V	QUADRO **DMX** [4,5] - DMX Solid colors **D1** - 1% 0-10V **DA** [5] - DALI [4] For more information, see pages 5 to 10. [5] On-site commissioning is required.	**1C** - 1 circuit	**SUR** - Surface mount	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**FU120** - Fuse 120V **FU277** - Fuse 277V **NA** - None
20W - 20 W output **25W** [3] - 25 W output **30W** [3] - 30 W output	**30W** - 30 W output **40W** [3] - 40 W output **50W** [3]- 50 W output						
[2] See page 2 for dedicated white channel lumen outputs. [3] Not available with solid colors.							

Accessories

Optional, order separately

DMX WALL CONTROLLER [6,7]
WC1W##FT - Single zone wall controller white **WC1B##FT** - Single zone wall controller black **WC2W##FT** - 3 zone wall controller white **WC2B##FT** - 3 zone wall controller black [6] Specify wire length (##) in feet. [7] Available with DMX only. For more information, see pages 5 to 10, or consult factory.

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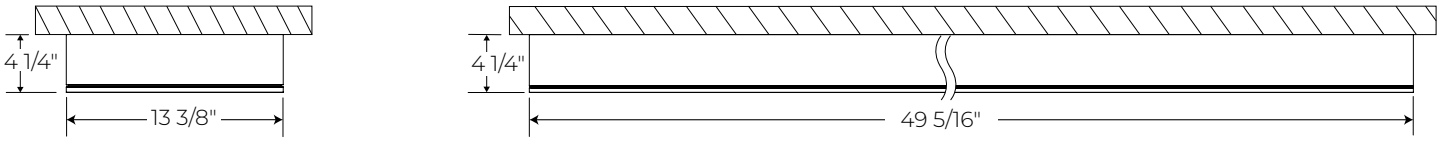
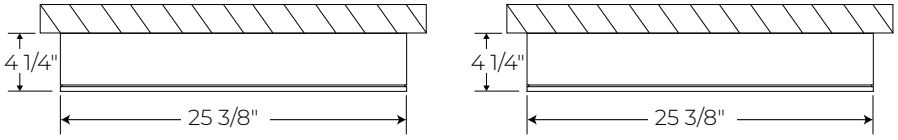
Dimensions

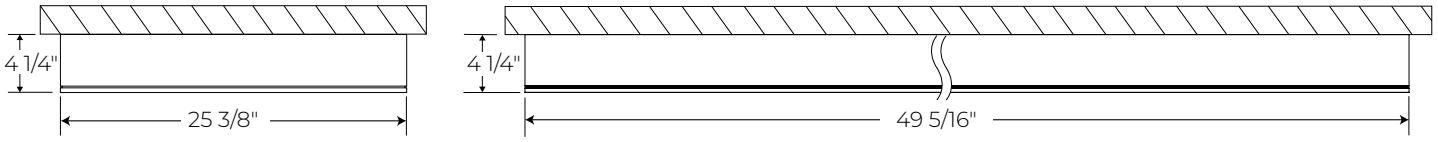
1' x 4'



2' x 2'



2' x 4'



Photometrics

Dedicated white channel lumen outputs are calculated with only white light on, and based on 3500K and 90+ CRI.

1' x 4'		2' x 2'		2' x 4'	
W	LM	W	LM	W	LM
20	750	20	900	30	1375
25	975	25	1125	40	1825
30	1200	30	1350	50	2275

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Technical Specifications

OPTICS

Precision Micro-Prism Optic (PMO)

The Precision Micro-Prism Optic (PMO) uses a specially designed catadioptric lens that combines refraction and internal reflection. The exclusive two-dimensional array of prisms is designed to eliminate the glare found at higher viewing angles and as such, enables a glare cut-off at a 45° viewing angle.
The acrylic material itself is untinted, relying entirely on catadioptric control for effective source obscuration. A highly efficient TIR process at the acrylic-air interface on the prism surfaces redirects incident light with less than a 0.1% loss per reflection. As a result, these optics attain a high optical efficiency greater than 90%, while maintaining visual comfort at normal viewing angles and presenting a pleasing luminous appearance.

High-Efficiency Lambertian Optic (HLO)

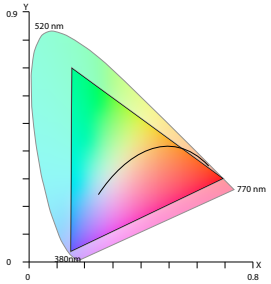
The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration.

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 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 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.



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, 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

Fixtures can be mounted directly to T-bar, drywall and hard surface ceilings with the mounting kit, hardware supplied by others.

FINISH

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

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CONSTRUCTION

Housing: Die-formed cold rolled sheet steel
Reflectors: Die-formed cold rolled steel, 95% reflective matte white painted
Interior brackets: Die-formed cold rolled sheet steel
Center basket: Extruded aluminum
Lens: Acrylic
Surface kit: Extruded aluminum

WEIGHT

1' x 4': 31.5 lbs - 14.3 kg
2' x 2': 22.03 lbs - 10 kg
2' x 4': 44.49 lbs - 20.2 kg

CERTIFICATION

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 on 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.

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.

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. ✓

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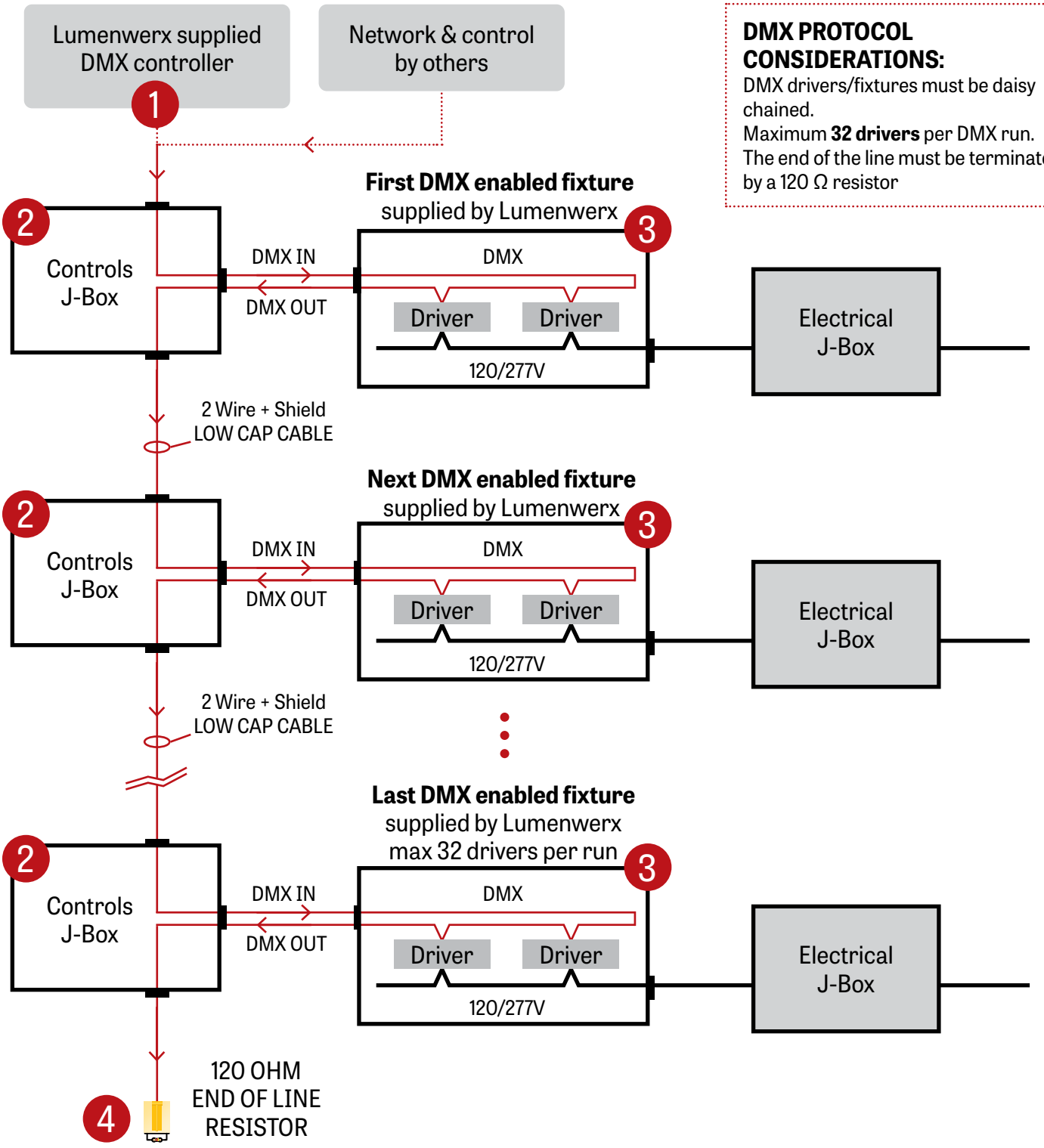
GENERIC DMX NETWORK ARCHITECTURE



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

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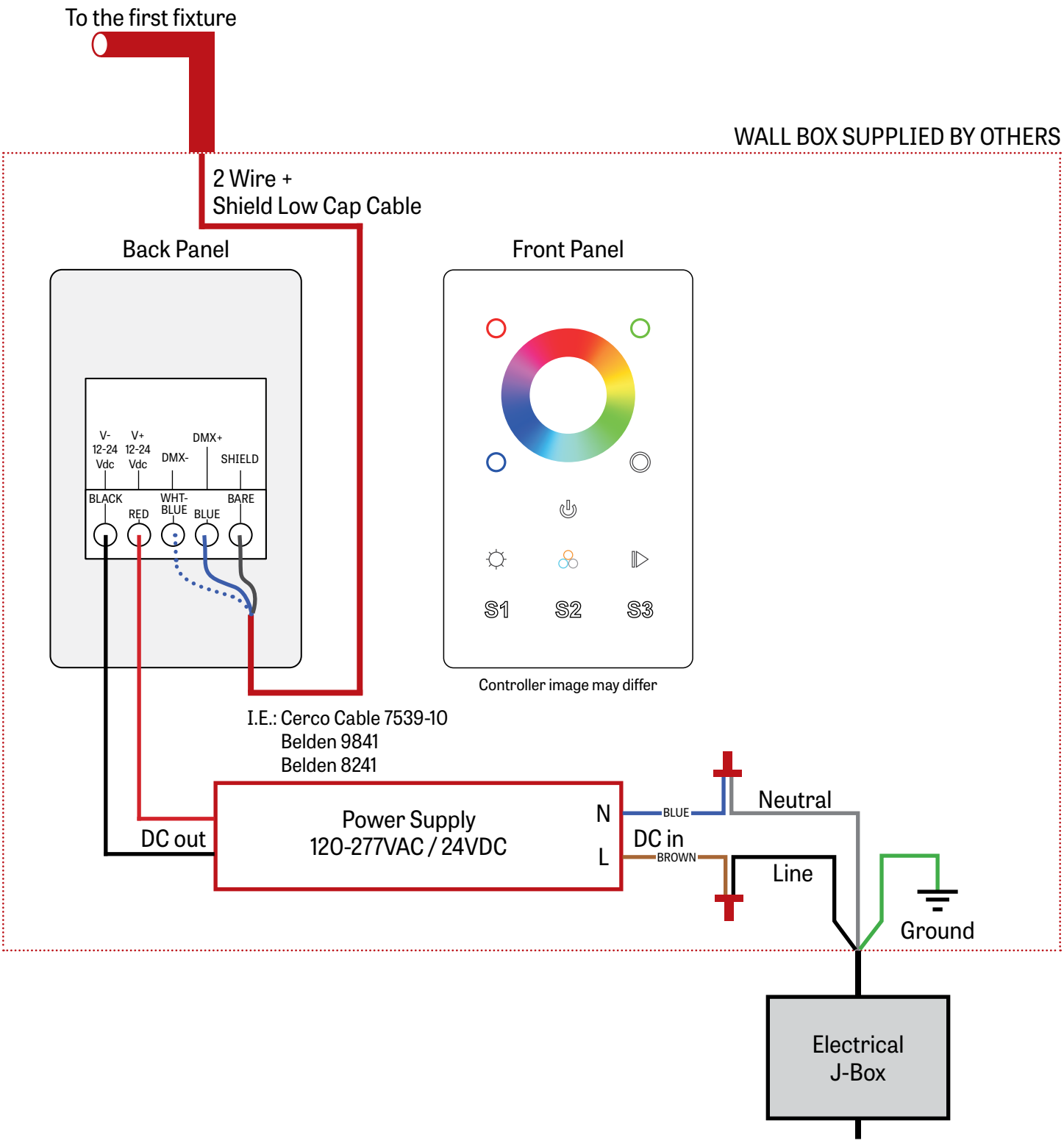
1 LUMENWERX SUPPLIED DMX CONTROLLER



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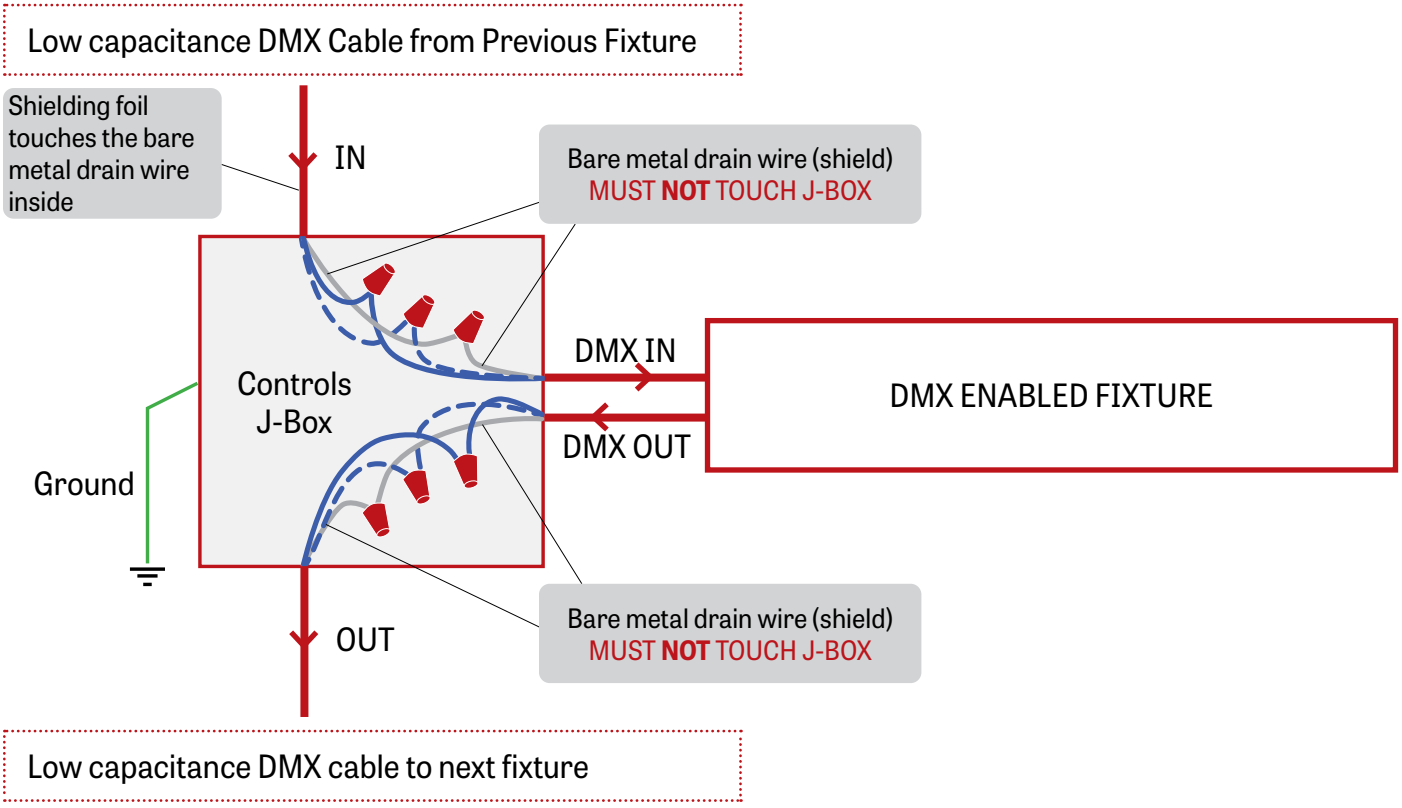
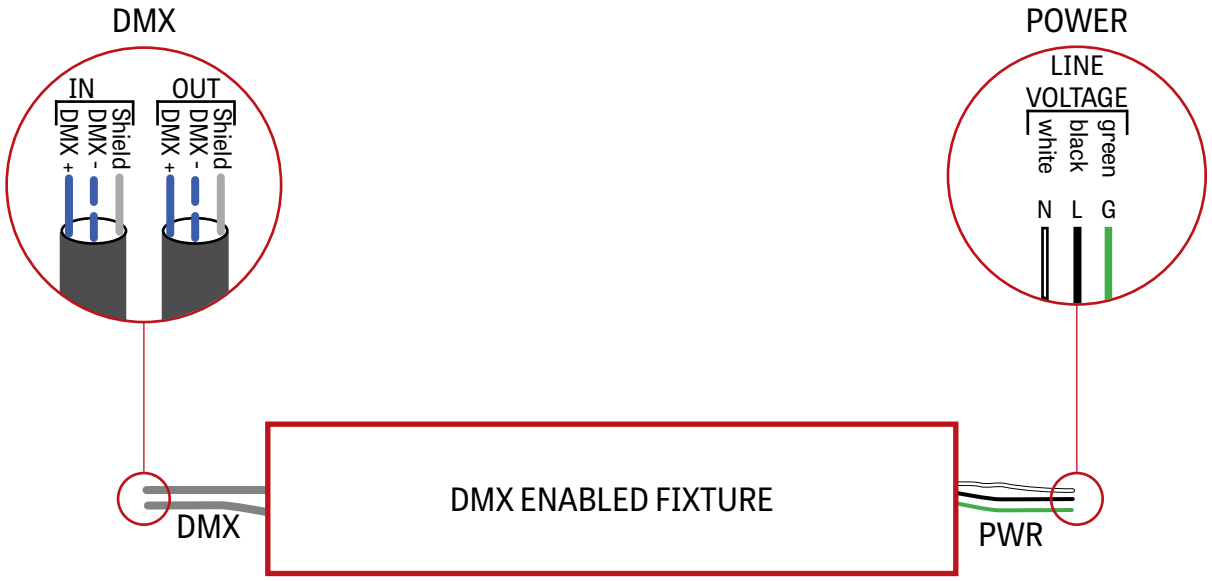
2 J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION RECESSED & SURFACE



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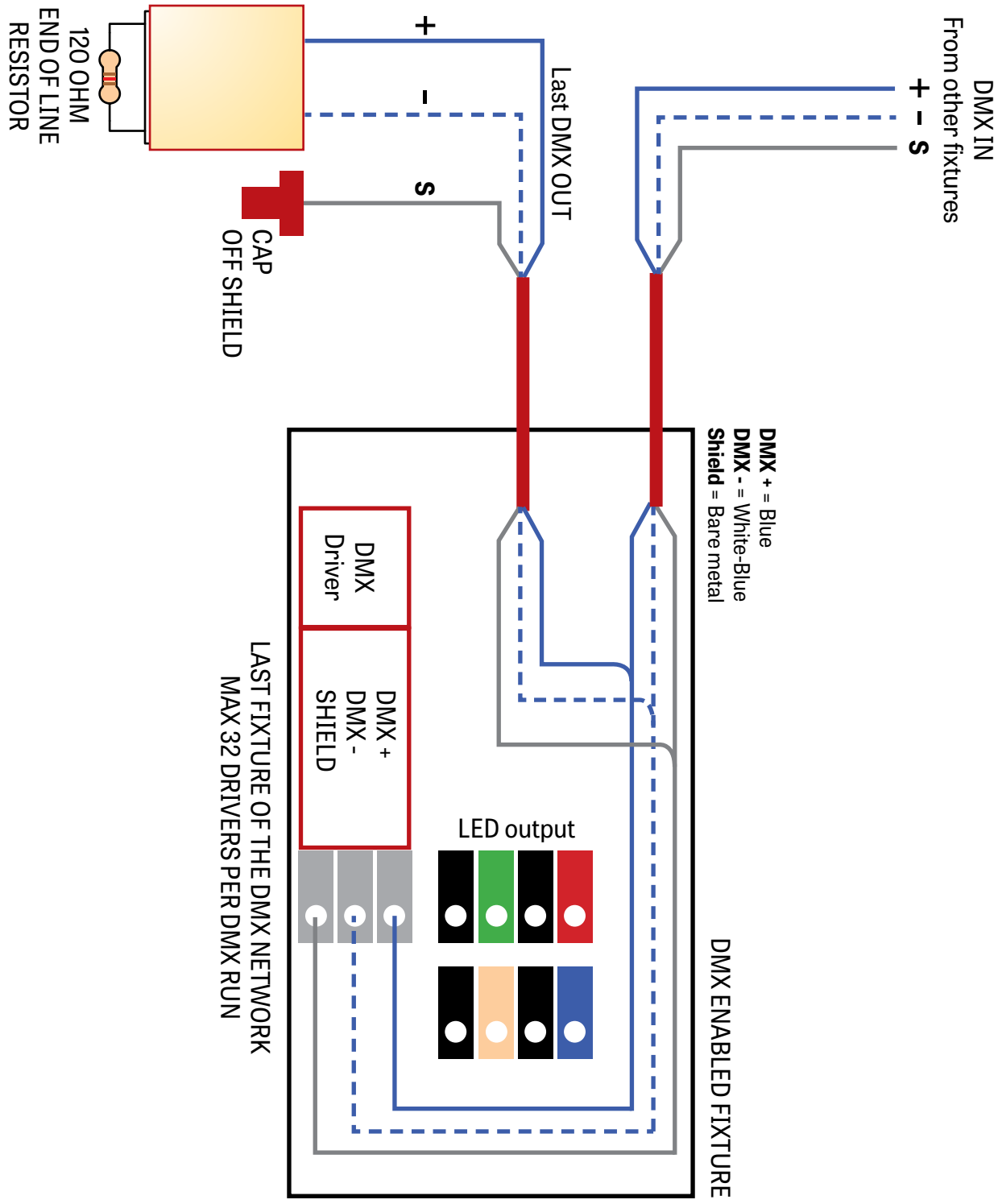
4 DMX LAST FIXTURE DETAIL



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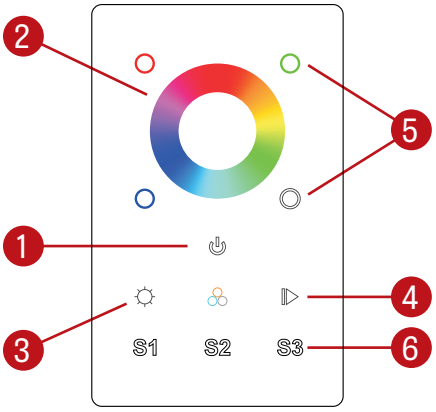
DMX WALL CONTROLLER

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).

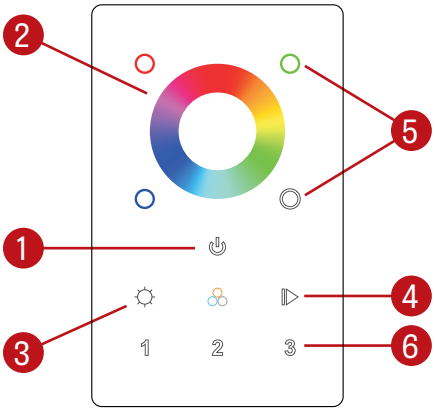
(3) Brightness (RGB): Hold down this button to either increase or decrease the brightness of the current RGB selection. White will not be affected by the RGB brightness button.

(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

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