VIA STIL

ACOUSTIX - CHROMAWERX
QUADRO - RGBW

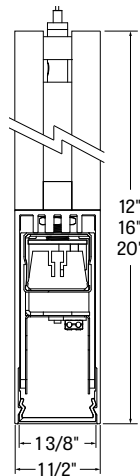# LUMENWERX

Project: _____

_____

Type: _____

Section View

12"
16"
20"

13/8"
11/2"

Via Stil is a seamless, ultra-compact, acoustic and flexible linear LED luminaire system for pendant installation. Carefully crafted with environmentally responsible acoustic material with excellent sound absorption that integrated beautifully with the extruded aluminum linear portion of the luminaire. The warmth of the acoustic polyester transitions pleasantly to the recycled aluminum form. Via Stil is available in specific sizes and continuous runs. Via Stil is available in Chromawerx QUADRO. Static White, Biologically Optimized White and Chromawerx DUO and SOLA are also available, see separate spec sheets.

Order Guide

LUMINAIRE ID	DISTRIBUTION	DIRECT OPTICS	LIGHT SOURCE	OUTPUT WATTAGE
VIASACOP	**D**	**HLO**		
VIASACOP - Via Stil Pendant	**D** - Direct	**HLO** - High-Efficiency Lambertian Optic	**QUADRO** - Four-channel RGB with 3500K/80CRI **RS** - Red solid **BS** - Blue solid **GS** - Green solid	**2.5WF** [1] - 2.5W/ft output **3WF** [2] - 3 W/ft output **6WF** [2] - 6 W/ft output **9WF** [2] - 9 W/ft output [1] Available for solid colors only. [2] Available for QUADRO only.

LUMINAIRE LENGTH	LUMINAIRE HEIGHT	VOLTAGE	DRIVER	ELECTRICAL
Individual sections: 2', 4', 6' **Continuous runs** [3]: lengths over 6' **#FT**- Specify nominal length (#) in 2 foot increments [3] Continuous runs are made up of 2', 4' and 6' sections.	**12** - 12 inches **16** - 16 inches **20** - 20 inches	**120** -120V **277** - 277V **UNV** - 120V-277V	**DMX** [4][5] - DMX **DA** [4][6] - DALI **0-10** [6] - 0-10V [4] On-site commissioning is required. [5] To specify, see pages 6 to 11. [6] Available for solid colors only.	**1** - 1 circuit **2** [7] - 2 circuits [7] Available for 0-10V drivers, solid colors only.

MOUNTING	FIXTURE FINISH	FELT COLOR		OPTIONS	DMX WALL CONTROLS (OPTIONAL) [11]
53WAC36W [8] - 36" aircraft cable, white canopies (5" power + 3" non-power), white power cord **53WAC36B** [8] - 36" aircraft cable, white canopies (5" power + 3" non-power), black power cord **55WSW18** - 18" white stem, white canopies (5" power + 5" non power) [8] Power cord is 6" longer than suspension length. Consult factory for other lengths. For all other options, refer to our Pendant Mounting Guide	**AL -** Aluminum **B -** Matte black **W -** Matte white **CF# -** Custom finish, specify RAL#	**STANDARD COLORS** FWN FON ION TBN MDN LVN LEN CYN PMN FGN	**PREMIUM COLORS** [9][10] PKN CDN IVN BHN OGN LCN SLN CFN LNN SYN CNN GRN LMN BLN GHN MON EGN NVN CLN ESN [9] Please consult factory for more color options. [10] Lead time may vary.	**FU** - Fuse **TB#** - T-bar caddy clip, specify grid size **TG#** - Tegular caddy clip, specify grid size **ST** - Screw slots caddy clip **CU** - Custom	**WC1W** - Wall controller 1 white **WC1B** - Wall controller 1 black **WC2W** - Wall controller 2 white **WC2B** - Wall controller 2 black [11] For more information, see pages 6 to 11, or consult factory.

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VIA STIL

ACOUSTIX - CHROMAWERX
QUADRO - RGBW

LUMENWERX

Project: _____

_____

Type: _____

Standard Color Options
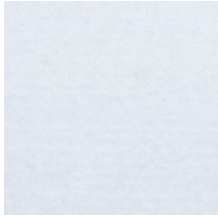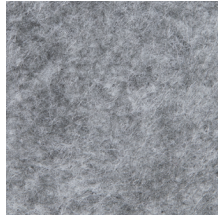
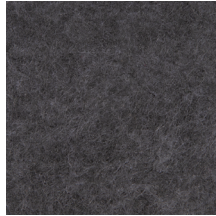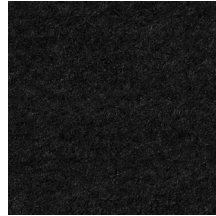|				
FWN - FROST WHITE	**FON** - FOG	**ION** - IRON	**TBN** - TRUE BLACK	**MDN** - MIDNIGHT BLUE
LVN - LAVENDER	**LEN** - LATTE	**CYN** - CHERRY	**PMN** - PLUM	**FGN** - FOREST GREEN

Premium Color Options*

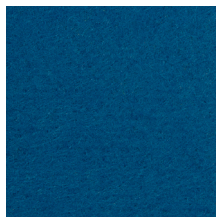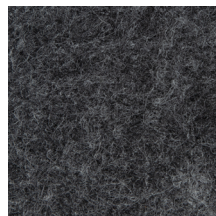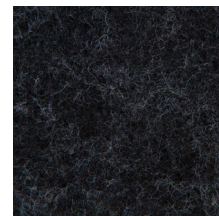|				
PKN - PAPRIKA	**OGN** - ORANGE	**LNN** - LEMON	**LMN** - LIME	**EGN** - EVERGREEN
CDN - CLOUDY	**LCN** - LICHEN	**SYN** - SKY	**BLN** - BLUEBERRY	**NVN** - NAVY
IVN - IVORY	**SLN** - STEEL	**CNN** - CARBON	**GHN** - GRAPHITE	**CLN** - CHARCOAL
BHN – BLUSH	**CFN** - CAFÉ	**GRN** - GREIGE	**MON** - MOCHA	**ESN** - ESPRESSO
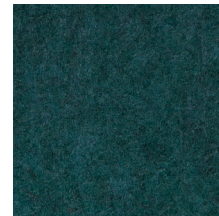
*Please consult factory for more color options.
*Lead time may vary.

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VIA STIL
ACOUSTIX - CHROMAWERX
QUADRO - RGBW

LUMENWERX

Project: _____

_____

Type: _____

ACOUSTIC CALCULATOR

Using the Lumenwerx Acoustix Value Calculator table, you can determine the number of acoustic luminaires required in a space by fixture type. We have three levels of recommended sound reduction: good, better, and best. Choosing one of these options will reduce the sound accordingly. The best option indicates the best acoustic improvement. Calculations are based on a standard ceiling height of 9 feet.

① Calculate the square feet of your room (L x W).

② Choose the level of acoustical improvement you are looking for, and find the corresponding value based on your room dimension and luminaire configuration.

% in reduction in reverberation time		
☺ GOOD	25%
☺☺ BETTER	40%
☺☺☺ BEST	50%

LENGTH	HEIGHT	Room dimensions under 300 sq ft			Room dimensions over 300 sq ft		
		GOOD ☺	BETTER ☺☺	BEST ☺☺☺	GOOD ☺	BETTER ☺☺	BEST ☺☺☺
2 Feet	12"	9.5	4.5	3	14.5	7.5	5
	16"	14.5	7	4	22.5	11	7
	20"	19	9.5	6	29	14.5	9.5
4 Feet	12"	19	9	6	29	15	10
	16"	29	14	8	45	22	14
	20"	38	19	12	58	29	19
6 Feet	12"	28.5	13.5	9	43.5	22.5	15
	16"	43.5	21	12	67.5	33	21
	20"	57	28.5	18	87	43.5	28.5

③ Use the Lumenwerx Acoustix Value Formula to determine the number of luminaires needed in the room.

Square feet ÷ Value = Number of luminaires

Example:

Luminaires: Via Stil, 4 ft long, 20" high

Room square feet: L: 20 ft x W: 18 ft = 360 sq ft

Desired acoustical improvement: Better = 29

Number of luminaires needed in the room: 360 ÷ 29 = **13 luminaires**

NOTES:
- You can mix lit and blank fixtures.
- Lumenwerx acoustic calculators were developed to act as a guide. For precise acoustic performance in a space, please consult an acoustician.

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VIA STIL

ACOUSTIX - CHROMAWERX
QUADRO - RGBW

LUMENWERX

Technical Specifications

OPTICS:

High-Efficiency Lambertian Optic (HLO) - shielding of diffusing 0.075" thick acrylic provides up to 88% transmission and good source obscuration. Matte white reflectors distribute LED output across the shielding. Luminaire brightness is controlled by the ratio of luminous flux to shielding area. Fixtures with HLO optics have a Spacing Criteria of 1.12.

LIGHT SOURCE - LED:

Custom linear 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.

LUMINAIRE LENGTH:

Via Stil is made up of standard 2, 4, and 6 foot sections that may be joined together to create longer continuous run lengths. Exact run length must be noted in the product code. The minimum individual section available is 2 feet.

All individual sections are joined together onsite using the joiner kits provided. Lumenwerx joiner kits are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

CHROMAWERX

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%.

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VIA STIL
ACOUSTIX - CHROMAWERX
QUADRO - RGBW

LUMENWERX

Project: _____

Type: _____

Technical Specifications

MOUNTING OPTIONS:
For cable-mounted fixtures - 53WAC36 (5" white canopy for all power mounting point, 3" white canopy for non power mounting point, and a 36" cable)

For stem mounted fixtures - 55WSW18 (5" white canopy for all power mounting point, and non power mounting point, and a 18" white stem)

Caddy clips, if required specify under OPTIONS

WEIGHT:
Via Stil 2ft - 6.84lbs - 3.10kg
Via Stil 4ft - 13.68lbs - 6.20kg
Via Stil 6ft - 41.04lbs - 9.30kg

CONSTRUCTION:
Housing - Extruded aluminum (0.095" nominal) up to 90% recycled content

Interior brackets - Die formed cold rolled sheet steel 18 gauge thick

Joining system - Die cast zinc (0.95" nominal)

Reflectors - Cold rolled steel 0.024" thick precisely die formed, 95% reflective matte white painted

Diffuser - 0.075" thick acrylic, 88% transmission

End caps - Die cast aluminum (0.95" nominal)

Hanger - Chromed Griplock securely attached with spring steel hardware in end caps and/or joiners

Aircraft cable suspension - 7x7 braids aluminum aircraft cable 0.06" thick

Stem - 0.5" diameter threaded steel tube matte white or aluminum powder coating. Custom finishes are also available.

FINISH:
Interior - 95%, reflective matte powder coated white paint

Exterior - Powder-coat paint in standard white, black, or aluminum. Custom colors are available (provide RAL #).

ACOUSTIC FINISH:
Material is 100% polyester containing up to 50% of recycled plastic bottles (PET) with an ASTM E-84 Class A fire rating and is moisture resistant.

CARE:
Remove dust and debris with a clean, dry, soft, lint-free cloth, or vacuum.

ENVIRONMENT:
Ambient temperature at fixture location shall not exceed 30°C/86°F. For indoor use only.

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.

WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the constriction and features of a luminaire. In WELL V1, it's Feature 54 Circadian Lighting, Feature 55 Glare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:
- Feature 55 or L04 meets WELL glare category (a-c-d)
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.

WELL for Sound - This luminaire is recommended for use as an acoustical absorption surface to limit reverberation times (RT) in a given space. This luminaire contributes to noise reduction and vibration dampening to promote focus and concentration. Reverberation needs to be calculated in each space based on the materials used.

 For more information please contact well@lumenwerx.com.

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VIA STIL
ACOUSTIX - CHROMAWERX
QUADRO - RGBW

LUMENWERX

Project: _____

Type: _____

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.

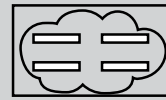**(YES)** ··········· Do you require a wall controller provided by Lumenwerx? ··········· **(NO)** ··········· DMX control system supplied by others. Lumenwerx will supply DMX-enabled fixtures with default DMX addressing.
See following pages for technical DMX informations. ✓

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	per 4' fixture
Driver	Driver Driver
1x driver	2x driver
Less than 12.5W/ft, direct only	Above 12.5W/ft or for all direct/indirect fixture

1 Zone   **2 to 3 Zones**   **4 or more Zones**

To Calculate # of drivers ←

Do you have more than 32 drivers in total?

(NO) **(YES)**

Order a standard Lumenwerx wall controller <u>type 1</u>.

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. ✓

(NO) **(YES)**

Order a standard Lumenwerx wall controller <u>type 2</u>.

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

WELL   WELL

VIA STIL
ACOUSTIX - CHROMAWERX
QUADRO - RGBW

LUMENWERX

Project: _____

Type: _____

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

Lumenwerx supplied DMX controller

Network & control by others

1

2 Controls J-Box

First DMX enabled fixture supplied by Lumenwerx **3**

DMX IN
DMX OUT

DMX
Driver   Driver
120/277V

Electrical J-Box

2 Wire + Shield LOW CAP CABLE

2 Controls J-Box

Next DMX enabled fixture supplied by Lumenwerx **3**

DMX IN
DMX OUT

DMX
Driver   Driver
120/277V

Electrical J-Box

2 Wire + Shield LOW CAP CABLE

2 Controls J-Box

Last DMX enabled fixture supplied by Lumenwerx max 32 drivers per run **3**

DMX IN
DMX OUT

DMX
Driver   Driver
120/277V

Electrical J-Box

4 120 OHM END OF LINE RESISTOR

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VIA STIL
ACOUSTIX - CHROMAWERX
QUADRO - RGBW

LUMENWERX

Project: _____

Type: _____

1 LUMENWERX SUPPLIED DMX CONTROLLER

To the first fixture

WALL BOX SUPPLIED BY OTHERS

2 Wire +
Shield Low Cap Cable

Back Panel

V- 12-24 Vdc	V+ 12-24 Vdc	DMX-	DMX+	SHIELD
BLACK	RED	WHT-BLUE	BLUE	BARE

Front Panel

S1   S2   S3

Controller image may differ

I.E.: Cerco Cable 7539-10
       Belden 9841
       Belden 8241

DC out

Power Supply
120-277VAC / 24VDC

N — BLUE — Neutral

DC in

L — BROWN — Line

Ground

Electrical J-Box

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VIA STIL
ACOUSTIX - CHROMAWERX
QUADRO - RGBW

LUMENWERX

Project: _____

Type: _____

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2 J-BOX DMX DAISY CHAIN DETAIL

Low capacitance DMX cable from previous fixture

Shielding foil touches the bare metal drain wire inside

IN

Bare metal drain wire (shield)
MUST **NOT** TOUCH J-BOX

Controls J-Box

DMX IN

DMX ENABLED FIXTURE

DMX OUT

Ground

OUT

Bare metal drain wire (shield)
MUST **NOT** TOUCH J-BOX
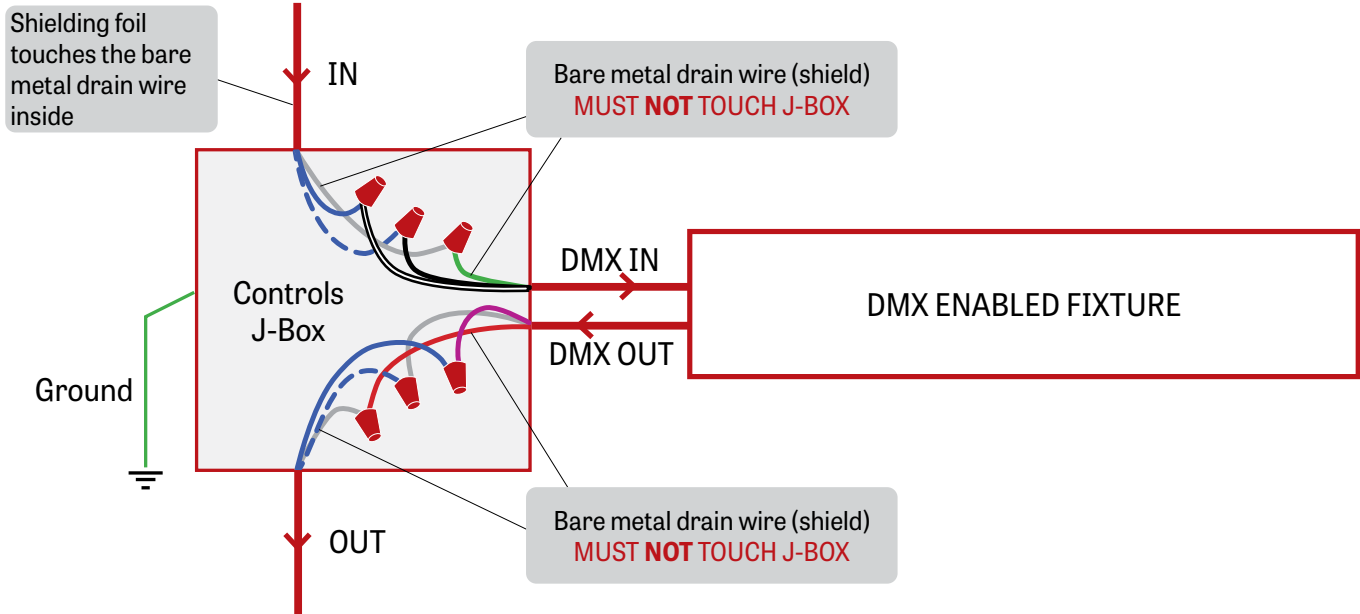
Low capacitance DMX cable to next fixture

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3 DMX CONNECTION PENDANT & WALL

DMX

IN   OUT
+ - S   + - S
white   red
black   grey
green   purple

POWER

LINE VOLTAGE
white
black
green
N   L   G

DMX   PWR

DMX ENABLED FIXTURE

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QUADRO - RGBW
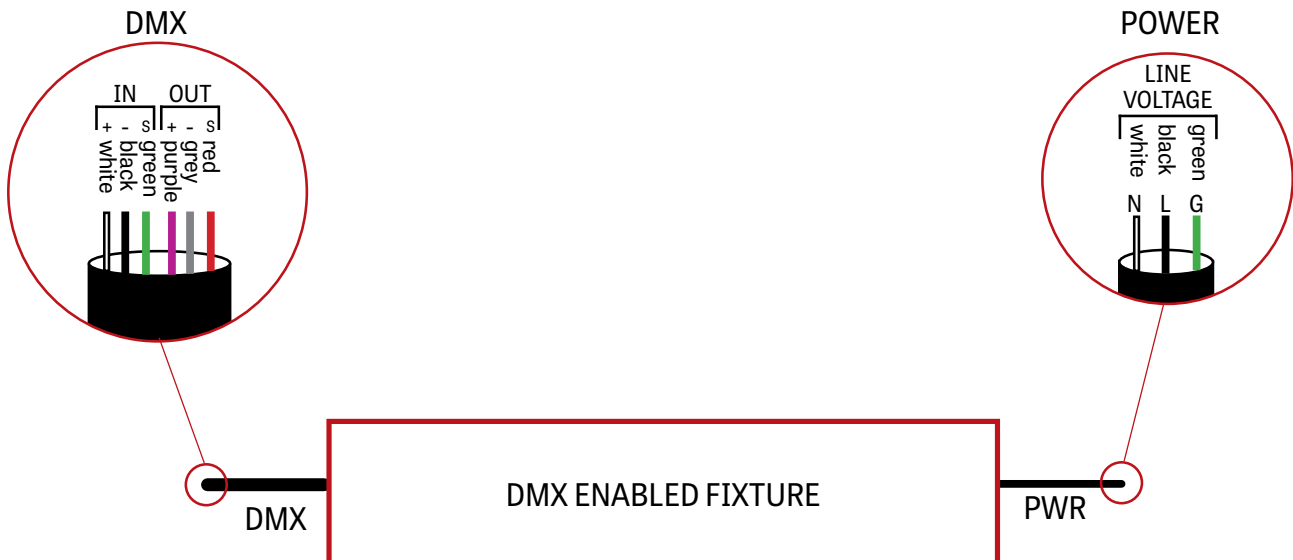
Project: _____

Type: _____

4 DMX LAST FIXTURE DETAIL
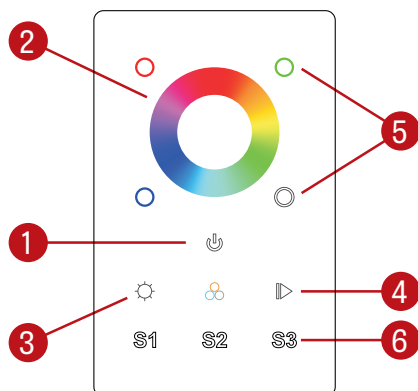
120 OHM
END OF LINE
RESISTOR

+

−

Last DMX OUT

S

CAP
OFF SHIELD

DMX IN
From other fixtures

+

−

S

DMX + = Blue
DMX − = White-Blue
Shield = Bare metal

DMX
Driver

DMX +
DMX −
SHIELD

LAST FIXTURE OF THE DMX NETWORK
MAX 32 DRIVERS PER DMX RUN

LED output

DMX ENABLED FIXTURE

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T (514) 225-4304 F (514) 931 -4862
www.lumenwerx.com

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VIA STIL
ACOUSTIX - CHROMAWERX
QUADRO - RGBW

LUMENWERX

Project: _____

Type: _____

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
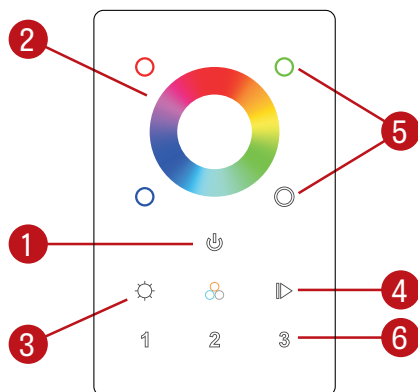
(1) Power:	Use this button to turn ON or OFF the RGBW fixture.
(2) Color Wheel:	The wheel is used to rapidly select a color (RGB colors only).
(3) Brightness:	Hold down this button to either increase or decrease the brightness of the current RGB selection. White will not be affected by the RGB brightness 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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www.lumenwerx.com

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VIASTIL-RGBW-SPEC-REV4   February 16, 2023

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