RIM VERSO

ACOUSTIX - CHROMAWERX DUO, SOLA AND QUADRO

Lumenwerx

Project: _____

Type: _____

Section View

1.50" 2.25"

1.00"
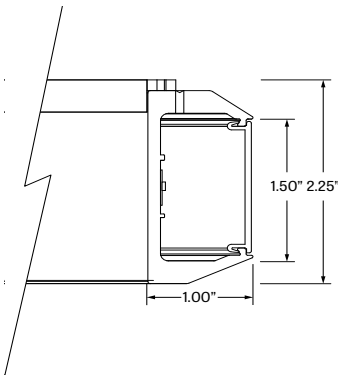
Rim Verso Acoustix combines generous ambient illumination with elegant geometry. The 2" high extruded aluminum frame is formed and finished into a seamless ring that can be painted in a wide range of standard and custom colors. The driver installs remotely, either above or below the ceiling. Three-to-four point suspension is available in an ultra-clean integrated power-over-cable option. Rim Verso Acoustix is available in three diameters: 24", 36" and 48". It is available for Chromawerx SOLA, DUO and QUADRO. Static White is also available, see separate spec sheets.

5 YEAR WARRANTY

Order Guide

LUMINAIRE ID	SIZE	OPTIC	LIGHT SOURCE	CRI	LUMEN PACKAGE					VOLTAGE
RIMVACORP		**ULO**		**90CRI**						

LUMINAIRE ID	SIZE	OPTIC	LIGHT SOURCE	CRI	LUMEN PACKAGE						VOLTAGE
RIMVACORP - Rim Verso Acoustix Round Pendant	**24IN** - Ø 24" **36IN** - Ø 36" **48IN** - Ø 48"	**ULO** - Uniform Lambertian Optic	**SOLA** - Dim-to-warm single-channel control 35K to 22K **DUO** - Tunable white 2-channel control 65K to 27K **QUADRO** - Four-channel RGB with 3500K white	**90CRI** - 90 CRI	**SIZE** Ø 24" Ø 36" Ø 48"	**SOLA & DUO** [1] Low **2000LM** **3000LM** **4000LM**	Medium **3000LM** **4500LM** **6000LM**	High **4000LM** **6000LM** **8000LM**	**QUADRO** **54W** - 54 W output **81W** - 81 W output **109W** [2] - 109 W output	**120V** -120V **277V** - 277V **UNV** - 120V-277V

[1] Two power cords will be required for lumen packages over 4500lm.
[2] Two power cords will be required.

REMOTE DRIVER	ELECTRICAL	MOUNTING				
	1C					

REMOTE DRIVER	ELECTRICAL	DRIVER BOX	CANOPY FINISH	POWER	MOUNTING POINTS	MOUNTING CABLE LENGTH [6]	
<u>SOLA</u> **SD1** - Single 0-10V input <u>DUO</u> **DD1** - Dual 0-10V input for CCT/Intensity **DDA** [3] - DALI DT6 **DDA8** [3] - DALI DT8 **LD2** [3] - Lutron DALI-2 digital **DMX** [3,4] - DMX <u>QUADRO</u> **DMX** [3,4] - DMX [3] On-site commissioning is required. [4] To specify, see pages 8 to 14.	**1C** - 1 circuit	**RDB** - Remote driver box	**W** - Matte white **AL** - Aluminum **B** - Matte black **CF#** - Custom finish, specify RAL#	**BAC** - Black power cord + aircraft cable **WAC** - White power cord + aircraft cable	**SC** - Single canopy **MC** [5] - Multiple canopies [5] 4 Canopies provided.	**18IN** - 18" **24IN** - 24" **36IN** - 36" **48IN** - 48" **60IN** - 60"	**72IN** - 72" **96IN** - 96" **120IN** - 120" **##IN** - Specify nominal length in inches

[6] For single canopy option, the minimum required mounting heights are (distance from ceiling to top of fixture in inches):

Fixture size	Minimum height
Ø 24"	min height 15"
Ø 36"	min height 22"
Ø 48"	min height 29"

FIXTURE FINISH	FELT COLOR

FIXTURE FINISH

W - Matte white
AL - Aluminum
B - Matte black
CF# - Custom finish, specify RAL#

FELT COLOR

STANDARD COLORS

FWN	LVN
FON	LEN
ION	CYN
TBN	PMN
MDN	FGN

PREMIUM COLORS [7]

PKN	CDN	IVN	BHN
OGN	LCN	SLN	CFN
LNN	SYN	CNN	GRN
LMN	BLN	GHN	MON
EGN	NVN	CLN	ESN

[7] Please consult factory for more color options. Lead time may vary.

DMX WALL CONTROLLER (OPTIONAL) [8]

<u>DUO</u>
WCW - DMX wall controller white
WCB - DMX wall controller black

<u>QUADRO</u>
WC1W - Single zone wall controller white
WC1B - Single zone wall controller black
WC2W - 3 zone wall controller white
WC2B - 3 zone wall controller black

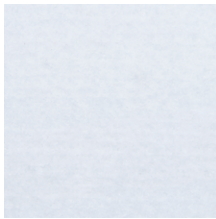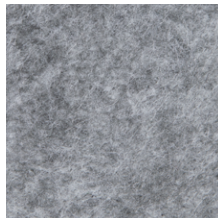[8] Available with DMX only. To specify see pages 8 to 14.

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RIM VERSO

ACOUSTIX - CHROMAWERX DUO,
SOLA AND QUADRO

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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
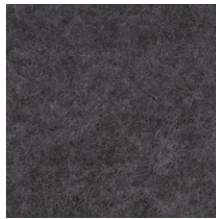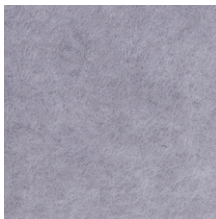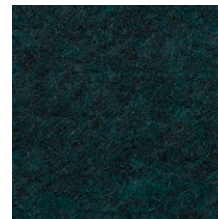
Premium Color Options*

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
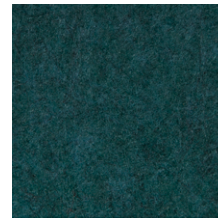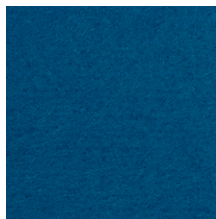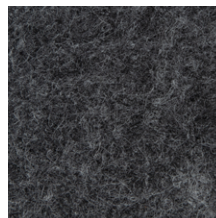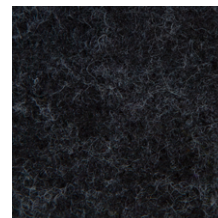
*Please consult factory
for more color options.
*Lead time may vary.

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ACOUSTIX - CHROMAWERX DUO, SOLA AND QUADRO

Mounting Options

RDB - REMOTE DRIVER BOX

RDB -Remote Driver Box - driver is in a 26"x4"x5.5" enclosure with brackets for mounting to ceiling joists, runners, or other supporting members. The 5 1/2" diameter x 1 5/8" deep wiring compartment canopy conceals and supports suspension and power cables. It is available in standard finishes (see ordering code). It can be installed in drywall or grid ceilings.
Note: Support hardware is not supplied.

SC - SINGLE CANOPY
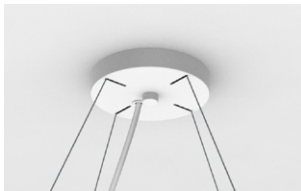
Shown with POC option.
Also available with AC.
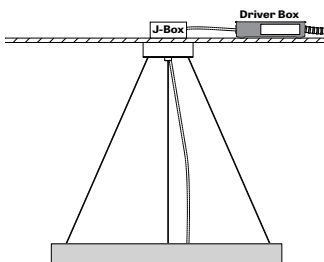
MC - MULTIPLE CANOPIES

Shown with POC option.
Also available with AC.
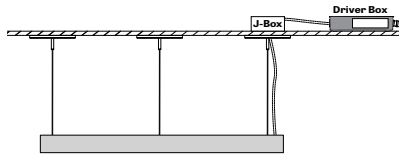
The multiple canopy option, available with Remote Driver Box only, allows the fixture to be installed closer to the ceiling compared to the single canopy option. Three canopies are provided for Rim 24", and four canopies are provided for Rim 36" and Rim 48".

RIM VERSO

ACOUSTIX - CHROMAWERX DUO,
SOLA AND QUADRO

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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%

SIZE	Room dimensions under 300 sq ft			Room dimensions over 300 sq ft		
	GOOD ☺	BETTER ☺☺	BEST ☺☺☺	GOOD ☺	BETTER ☺☺	BEST ☺☺☺
Ø 24"	18	9	6	28	14	9
Ø 36"	42	20	14	65	32	22
Ø 48"	75	38	25	120	59	41

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: Rim Verso Acoustix, Ø 48"
Room square feet: L: 20 ft x W: 18 ft = 360 sq ft
Desired acoustical improvement: Better = 59
Number of luminaires needed in the room: 360 ÷ 59 = **7 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.

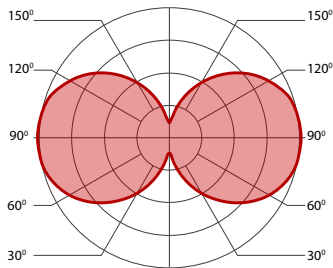WELL   WELL   WELL

RIM VERSO
ACOUSTIX - CHROMAWERX DUO, SOLA AND QUADRO

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Technical Specifications

OPTICS

Uniform Lambertian Optic (ULO) - Thermoformed from impact-modified white PMMA, the ULO provides even luminosity, with up to 88% transmission. Combined with the LED array running around the inside of the housing, the open form and ULO create a widespread 50% direct and 50% indirect light distribution with spacing criteria of 1.6.

ANSI C78.377-2015

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 stand-alone color changing applications.
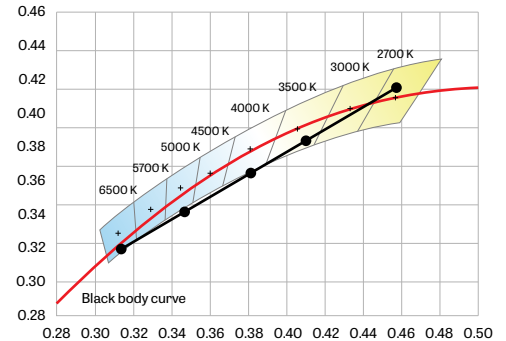
CHROMAWERX - SOLA and DUO

Custom linear 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 2200K - 3500K is controlled synchronously with intensity. Color consistency between fixtures is maintained within 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 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 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% of full power to 2200K at 5% of full power. CRI is maintained above 80 throughout the dimming range.

Chromawerx DUO is a two-channel control. It uses an analog (0-10V) protocol for separate control of luminaire CCT and intensity or a digital (DMX, DALI) protocol for synchronous control of both warm and cool LED arrays to enable 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. CRI is maintained above 80.

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Technical Specifications

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

0-10V (SOLA and DUO):
Driver features factory-set adjustable output current with 120-277V AC line input. Dimmable from 100% to 1%. Rated life (90% survivorship) is 50,000 hours at 50°C max. ambient (and 70°C max. case) temperature. 0-10V 1% Driver performance at maximum load, efficiency > 84%, Power Factor > 0.9, THD < 20%.

DALI (SOLA and DUO):
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%.

DMX (QUADRO and DUO):
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, either two channels of LEDs (warm-white & 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%.

WEIGHT
Ø 24" - 6.17lbs - 2.80kg
Ø 36" - 9.25lbs - 4.20kg
Ø 48" - 12.34lbs - 5.60kg

CONSTRUCTION
Housing - Rolled and seamlessly welded aluminum extrusion, wide variety of colored powder coating
Diffuser - Uniform Lambertian optic, co-extruded flexible polycarbonate satine finished lens

FINISH
Interior - 95% reflective, matte white powder coating
Exterior - matte white, matte black or aluminum powder coating. Custom finishes are also available.

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.

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

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

WARRANTY
Lumewerx 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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WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the construction 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 54 or L03 when DUO is selected
- 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.

WELL for Mind (SOLA and DUO only) -This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, smooth optics, and a sound diminishing element. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information please contact well@lumenwerx.com.

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RIM VERSO
ACOUSTIX - CHROMAWERX DUO, SOLA AND QUADRO

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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 <u>contact information of your DMX integrator.</u>**

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 fixture

1 x [Driver] / **50W per side**

To Calculate # of drivers ←

1 - 4 Zones   **5 or more Zones**

Do you have more than 32 drivers in total?

NO   **YES**

Order a standard Lumenwerx wall controller.

WALL CONTROLLER
WCW - wall controller white
WCB - 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 costs and equipment will be required. ✓

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

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WELL   WELL   WELL

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.**

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 fixture

1 x Driver / **5000lm per side**

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**

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 costs 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 costs and equipment will be required. ✓

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

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RIM VERSO

ACOUSTIX - CHROMAWERX DUO,
SOLA AND QUADRO

Lumenwerx

GENERIC DMX NETWORK ARCHITECTURE

Lumenwerx supplied DMX controller ①

Network & control by others

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

② **Controls J-Box**

First DMX enabled fixture
supplied by Lumenwerx ③

DMX IN
DMX
DMX OUT
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
DMX OUT
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
DMX OUT
Driver   Driver
120/277V

Electrical J-Box

④ **120 OHM END OF LINE RESISTOR**

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ACOUSTIX - CHROMAWERX DUO, SOLA AND QUADRO

CHROMAWERX TUNABLE WHITE AND RGBW

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

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

RGBW Front Panel

S1   S2   S3

Controller image may differ

TW Front Panel

Z1

Z2

S1   Z3

S2   Z4

Controller image may differ

**Power Supply
120-277VAC / 24VDC**

N — BLUE — Neutral

L — BROWN — Line

DC in

DC out

Ground

Electrical
J-Box

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RIMVERSO-ACOUSTIX-TW-RGBW-SPEC-REV4   August 23, 2024

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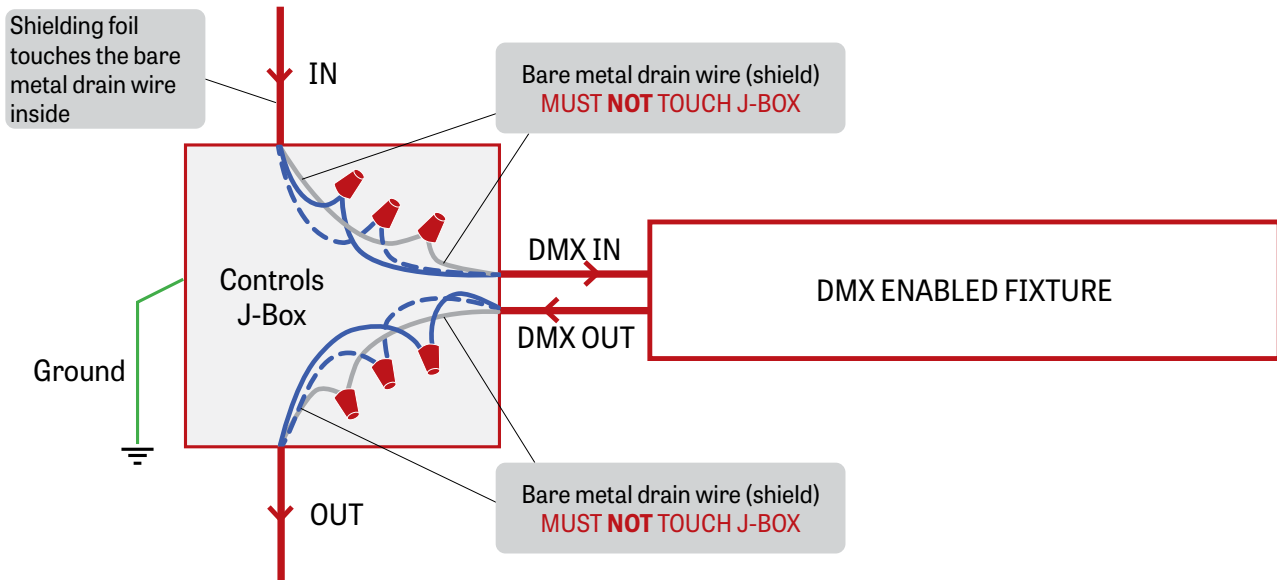
RIM VERSO
ACOUSTIX - CHROMAWERX DUO, SOLA AND QUADRO

Lumenwerx

CHROMAWERX TUNABLE WHITE AND RGBW

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

Ground

DMX IN

DMX OUT

DMX ENABLED FIXTURE

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

OUT

Low capacitance DMX cable to next fixture

---

3 DMX CONNECTION **PENDANT & WALL** REMOTE DRIVER

DMX

IN OUT
Shield / DMX - / DMX +

DMX IN
- **DMX +** = White
- **DMX -** = Black
- **Shield** = Green

DMX OUT
- **DMX +** = Purple
- **DMX -** = Grey
- **Shield** = Red

POWER

LINE VOLTAGE

white / black / green

N   L   G

PWR

DMX

DMX ENABLED FIXTURE

LOW VOLTAGE LED OUTPUT

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WELL   WELL   WELL

RIM VERSO

ACOUSTIX - CHROMAWERX DUO, SOLA AND QUADRO

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4 DMX LAST FIXTURE DETAIL

120 OHM
END OF LINE
RESISTOR

+

–

Last DMX OUT

S

CAP
OFF SHIELD

DMX IN
From other fixtures

+

+ – S

– 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

c ETL us LISTED
Intertek

WELL   WELL   WELL

RIM VERSO
ACOUSTIX - CHROMAWERX DUO,
SOLA AND QUADRO

Lumenwerx
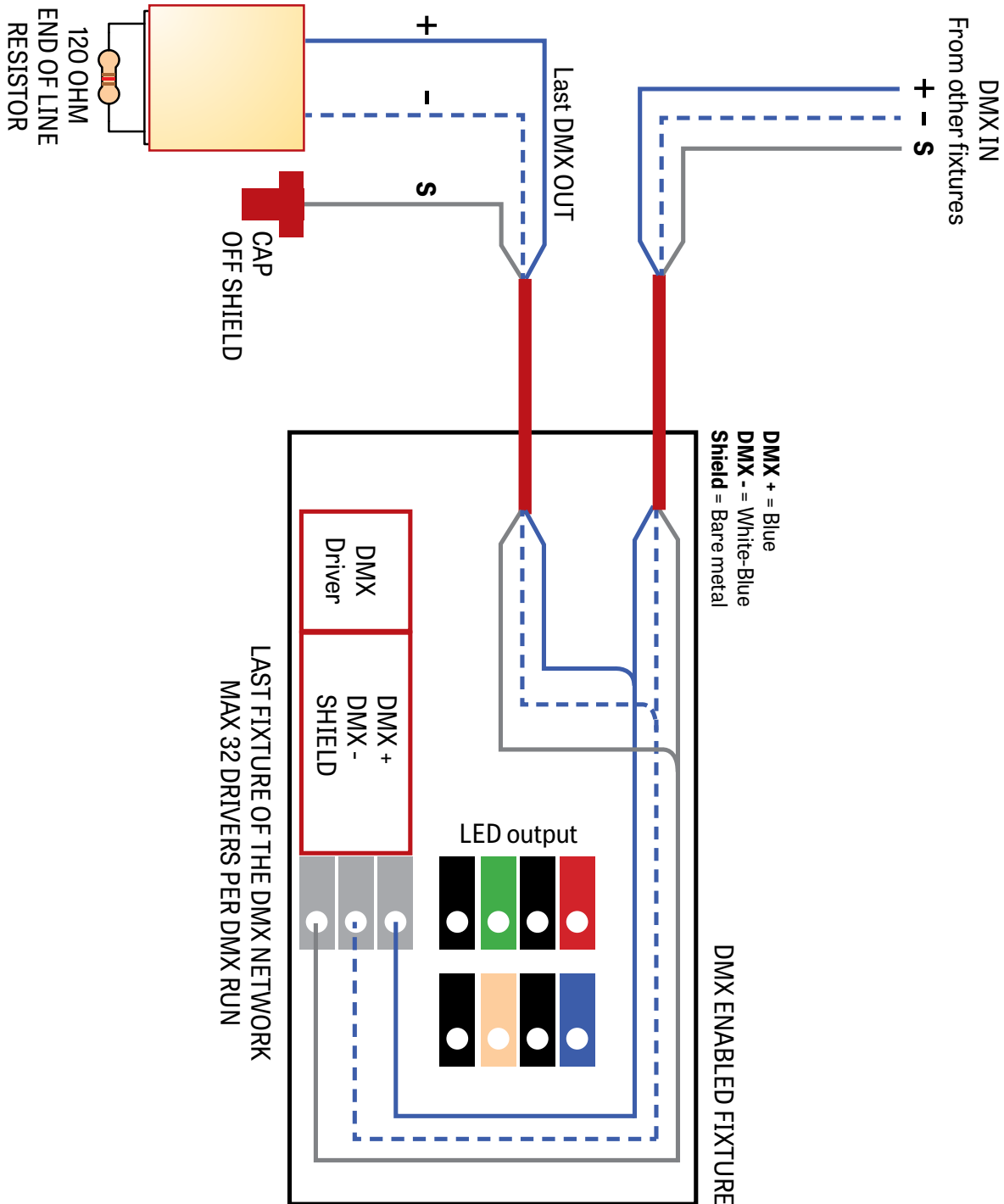
CHROMAWERX TUNABLE WHITE AND RGBW

DMX WALL CONTROLLER - TUNABLE WHITE

Default DMX Addresses:

1. WARM	2. COOL

WC
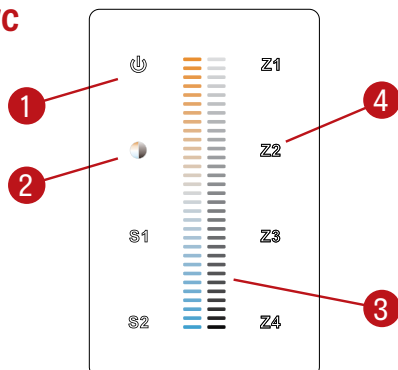
|	
(1) Power:	Use this button to turn ON or OFF the fixture.
(2) Brightness/CCT:	Use the color/brightness toggle button to choose between color/brightness. When Blue: brightness is selected; when Yellow: color is selected.
(3) Slider:	Depending on the mode chosen in step 2, the slider will allow the 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
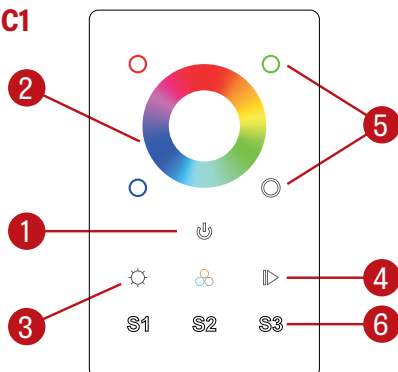
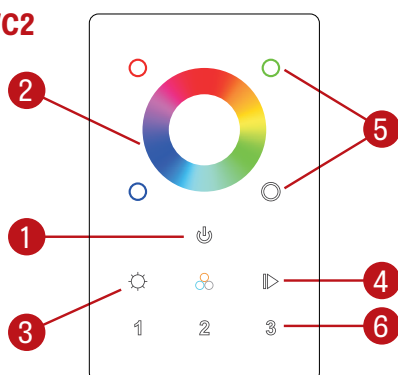|	
(1) Power:	Use this button to turn ON or OFF the RGBW fixture.
(2) Color Wheel:	The wheel is used to rapidly select a color (RGB colors only).
(3) Brightness (RGB):	Hold down this button to either increase or decrease the brightness of the current RGB selection. White will not be affected by the RGB 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

(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.

Intertek

WELL   WELL   WELL