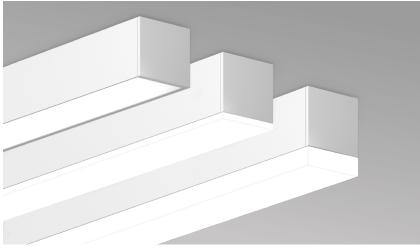
Lumenwerx

DIRECT CHROMAWERX - QUADRO - RGBW





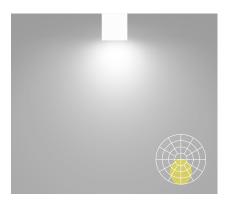


DESCRIPTION

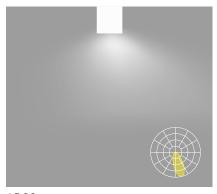
Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns. Via 4 Surface is offered with Lambertian, asymmetric, or wall wash optics.

Declare.

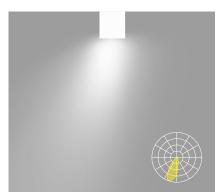




HLO High-Efficiency Lambertian Optic



ARO2 Asymmetric Refractive Optic



WRO2 Wall Wash Refractive Optic

 $^{^{\}mbox{\tiny 1}}\mbox{Drop}$ lens positions available with HLO only.

DIRECT CHROMAWERX - QUADRO - RGBW



Project:	
Туре:	

Order Guide

LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE ²
VIA4S	D			
VIA4S - Via 4" Surface	D - Direct	HLO - High-Efficiency Lambertian Optic ARO2 - Asymmetric Refractive Optic WRO2 - Wall Wash Refractive Optic	FH 1 - Flush 0.5D 1 - 0.5" drop 1.5D 1 - 1.5" drop 1 - For HLO, specify FH, 0.5D, or 1.5D. For ARO2 and WRO2, specify FH.	QUADRO - RGBW 4-channel control RS - Red solid GS - Green solid BS - Blue solid 2 Static white, BIOS, Chromawerx SOLA, and DUO also available. Consult other spec sheets.

WHITE CRI Specify NA for solid colors	WHITE COLOR TEMP. Specify NA for solid colors	OUTPUT WATTAGE ³		LUMINAIRE LENGTH	VOLTAGE
80CRI - 80+ CRI 90CRI - 90+ CRI NA - Not applicable	27K - 2700K 30K - 3000K 35K - 3500K	HLO	8WF - 8 W/ft output 10WF 4 - 10 W/ft output 12WF 4 - 12 W/ft output	#FT#IN 5 - Specify nominal length (#) in 1' and/or 6" increments Standard nominal lengths:	120V - 120V 277V - 277V UNV - 120V-277V
50K - 50	40K - 4000K 50K - 5000K NA - Not applicable	ARO2 WRO2	5WF - 5 W/ft output 7WF ⁴ - 7 W/ft output	Single units: 4' to 12' Continuous runs: lengths over 12'	
		outputs.	a 3 for dedicated white channel lumen lable with solid colors.	⁵ Minimum length is 4 ² .	

DRIVER 6	ELECTRICAL	MOUNTING	FINISH	OPTION
	1C			
QUADRO DMX 7.8 - DMX Solid colors D1 - 1% 0-10V DA 8 - DALI	1C - 1 circuit	DRC - Drywall ceiling GRD - Grid ceiling	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	FU120 - Fuse 120V FU277 - Fuse 277V NA - None
 PoE (Power-over-Ethernet) compatible. Consult factory for details. For more information, see pages 6 to 11. On-site commissioning is required. 				

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 6 to 11, or consult factory.

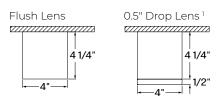






DIRECT CHROMAWERX - QUADRO - RGBW

Dimensions





¹Drop lens positions available with HLO only.

Photometrics

Dedicated white channel lumen outputs are calculated with only white light on, and based on a 4' fixture at 3500K and 80+ CRI for all optics.

OPTIC	W/FT	LM/FT
	8	325
HLO-FH	10	400
	12	500
	8	325
HLO-0.5D	10	400
	12	500
	8	325
HLO-1.5D	10	400
	12	500

OPTIC	W/FT	LM/FT
4500	5	225
ARO2	7	300
WDOO	5	225
WRO2	7	300





DIRECT

CHROMAWERX - QUADRO - RGBW

Technical Specifications

OPTICS

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. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.16.

Asymmetric Refractive Optic (ARO2)

The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

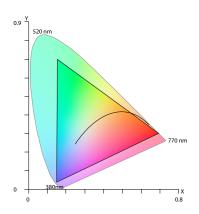
Wall Wash Refractive Optic (WRO2)

The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

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.

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.

LUMINAIRE LENGTH

Via 4 is available in standard lengths of 4' to 12'. Continuous runs are available for run lengths over 12'. Exact run length must be noted in the product code. The minimum length is 4', and can be ordered in 1' and/or 6" increments. All individual sections are joined together onsite using the joiner kits provided. Lumenwerx offers joiner kits that 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.

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.







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CHROMAWERX - QUADRO - RGBW

MOUNTING

Fixtures can be mounted directly to T-bar, drywall and hard surface ceilings, hardware supplied by others. Long runs require a minimum of 6" from the vertical wall.

FINISH

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

CONSTRUCTION

Housing: Extruded aluminum, up to 90% recycled content **Interior brackets**: Die-formed cold rolled sheet steel

Joining system: Die-cast zinc

Reflectors: Die-formed cold rolled steel, 95% reflective matte

white painted **Lens**: Acrylic

Drop lens: Extruded with glued end caps

End caps: Die-cast aluminum

WEIGHT

4': 11.45 lbs - 5.2 kg **8**': 23.13 lbs - 10.5 kg **12**': 34.58 lbs - 15.7 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. **Declare**: LBC Red List Approved

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.



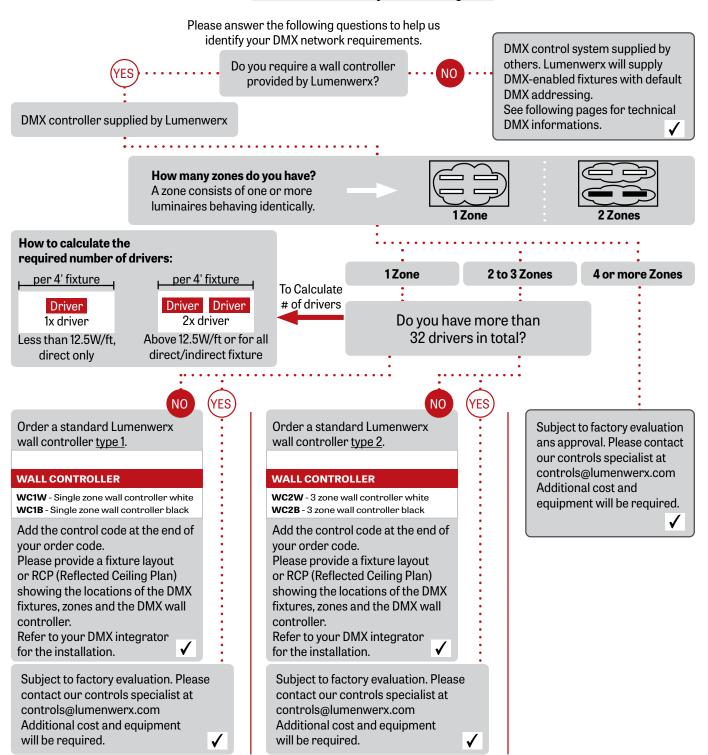


DIRECT

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.





6/11



DIRECT CHROMAWERX - QUADRO - RGBW

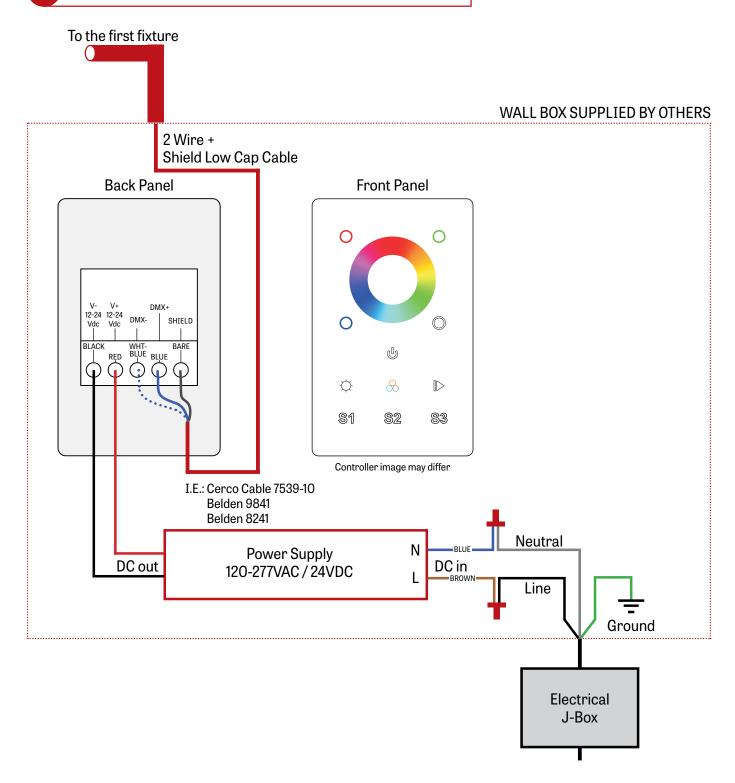
GENERIC DMX NETWORK ARCHITECTURE Network & control **DMX PROTOCOL** Lumenwerx supplied **CONSIDERATIONS:** DMX controller by others DMX drivers/fixtures must be daisy chained. Maximum 32 drivers per DMX run. The end of the line must be terminated First DMX enabled fixture by a 120 Ω resistor supplied by Lumenwerx DMX IN DMX Controls J-Box **DMX OUT** Driver Driver Electrical J-Box 120/277V 2 Wire + Shield LOW CAP CABLE **Next DMX enabled fixture** supplied by Lumenwerx DMX IN DMX Controls J-Box DMX OUT Driver Driver Electrical J-Box 120/277V 2 Wire + Shield LOW CAP CABLE Last DMX enabled fixture supplied by Lumenwerx max 32 drivers per run **DMX IN** DMX Controls J-Box **DMX OUT** Driver Driver Electrical J-Box 120/277V 120 OHM **END OF LINE** RESISTOR





DIRECT CHROMAWERX - QUADRO - RGBW

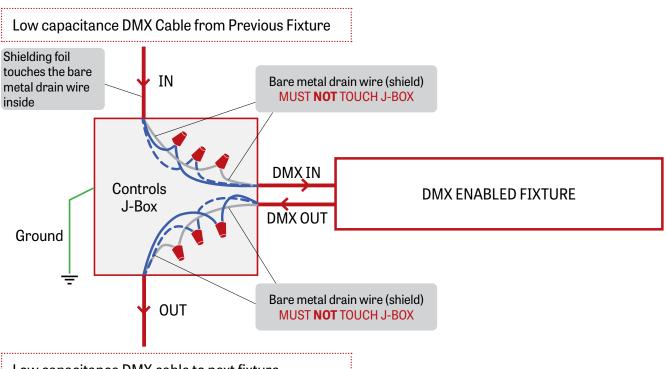
LUMENWERX SUPPLIED DMX CONTROLLER





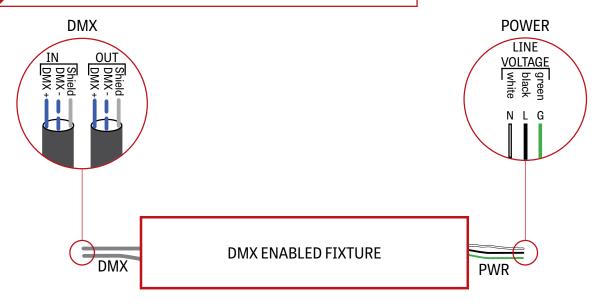
DIRECT CHROMAWERX - QUADRO - RGBW





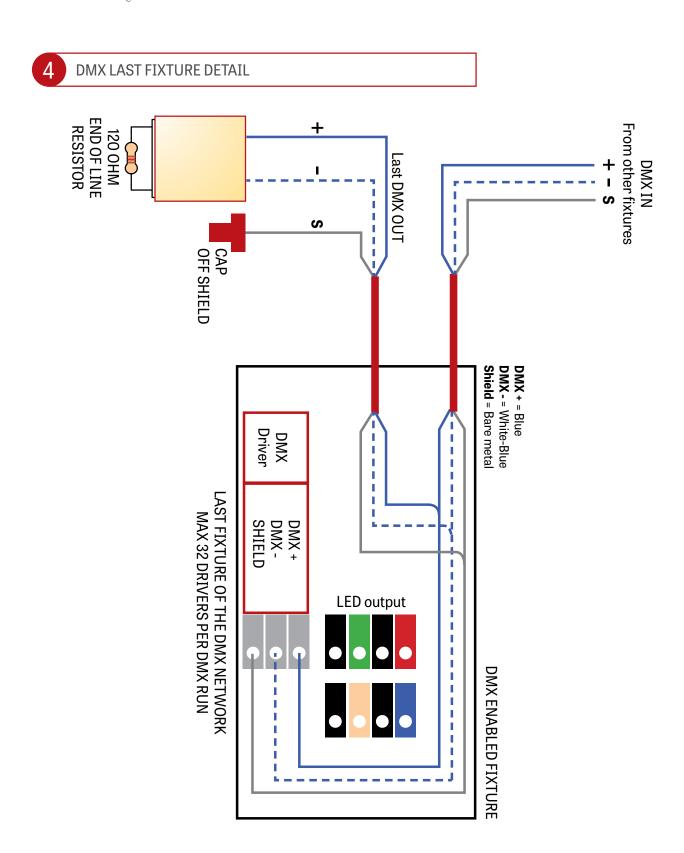
Low capacitance DMX cable to next fixture

3 DMX CONNECTION RECESSED & SURFACE





DIRECT CHROMAWERX - QUADRO - RGBW

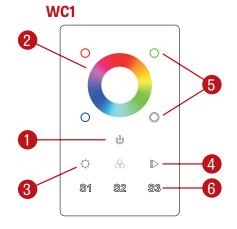






DIRECT CHROMAWERX - QUADRO - RGBW

DMX WALL CONTROLLER



(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.

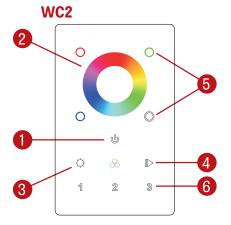
White: In order to activate or deactivate and dim the White

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.



(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

