

# **L**umenwerx

**IC RATED** 

Project:



#### DESCRIPTION

Via 3 Perimeter creates a continuously illuminated "slot" at the wall/ceiling intersection. Lighted corners with adjustable end sleeves are available. Via Perimeter installs in grid or drywall ceilings in a choice of three arrangements: level, shallow 1", and deep 3 ¼".



### Order Guide

LUMINAIRE ID	OPTIC	LIGHT SOURCE <sup>2</sup>	WHITE CRI Specify NA for solid colors	OUTPUT WATTAGE <sup>3</sup>	WHITE COLOR TEMP. Specify NA for solid colors	LUMINAIRE LENGTH
V3PERL - Via 3	HLO - High-	QUADRO - RGBW	80CRI - 80 CRI	8WF - 8 W/ft output	<b>27K</b> - 2700K	#FT#IN - Specify nominal
Perimeter Level	Efficiency	4-channel control	90CRI - 90 CRI	10WF <sup>4</sup> - 10 W/ft output	<b>30K</b> - 3700K	length (#) in 1' and/or 6"
V3PERS - Via 3	Lambertian Optic	RS - Red solid GS - Green solid	NA - Not applicable	12WF <sup>4</sup> - 12 W/ft output	<b>35K</b> - 3500K <b>40K</b> - 4000K	increments
Perimeter Shallow	- Asymmetric	BS - Blue solid		<sup>3</sup> See page 3 for dedicated	<b>50K</b> - 5000K	Standard nominal
V3PERD - Via 3	Room Fill Optic			white channel lumen outputs.	NA - Not applicable	lengths:
Perimeter Deep	<sup>1</sup> Not available with Deep fixtures.	<sup>2</sup> Static white, Chromawerx SOLA and DUO also available. Consult other spec sheets.		<sup>4</sup> Not available with solid colors.		Single units: 4' to 12' Continuous runs: lengths over 12'

VOLTAGE	DRIVER ⁵		ELECTRICAL	MOUNTING	FINISH	OPTIONS <sup>8</sup>	ADJUSTABLE SLEEVE (optional) <sup>10</sup>
			1C				
<b>120V</b> - 120V <b>277V</b> - 277V <b>UNV</b> - 120V-277V	OUADRO DMX 67 - DMX <sup>5</sup> PoE (Power-over-E compatible. Consideration details. <sup>6</sup> To specify, see pag ? On-site commission	ult factory for ges 6 to 11.	1C - 1 circuit	TG9 - Tegular 9/16" TG15 - Tegular 15/16" TB9 - T-bar 9/16" TB15 - T-bar 15/16" ST - Screw slot T-bar DTR - Drywall trim DTL - Drywall trimless DMF - Drywall mud flange	W - Matte white CF# - Custom finish, specify RAL#	NEF <sup>9</sup> - No end flanges FUI20 - Fuse 120V FU277 - Fuse 277V FWC - Flexible whip cable (6' std) CP - Chicago Plenum NA - None <sup>®</sup> Separate codes with a "+" if more than one is specified. <sup>®</sup> For wall-to-wall installations.	TES - Adjustable end sleeve NA - None <sup>10</sup> See page 3 for details.

### Accessories

Optional, order separately

#### DMX WALL CONTROLLER<sup>11</sup>

WCIW - Single zone wall controller white WC1B - Single zone wall controller black WC2W - 3 zone wall controller white WC2B - 3 zone wall controller black

Available with DMX only. For more information, see pages 6 to 11, or consult factory.

#### TECHZONE™ & USG Compatible with 4" ceiling



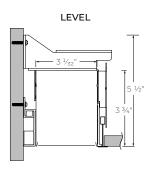


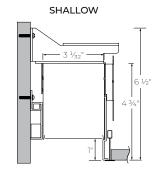
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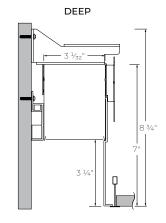
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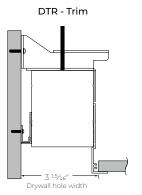
### Dimensions





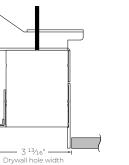


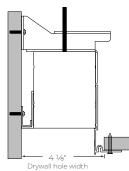
#### DRYWALL



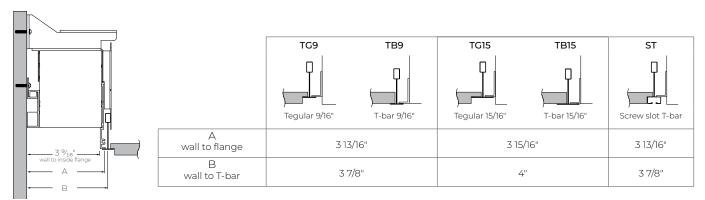
## DTL - Trimless







GRID





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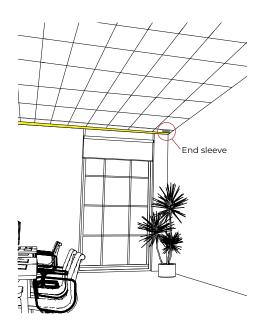
### Photometrics

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

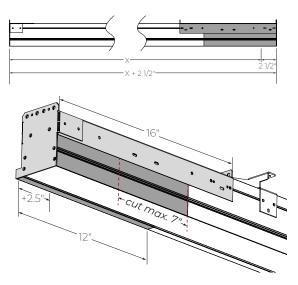
ΟΡΤΙϹ	W/FT	LM/FT	OPTIC	W/FT	LM/F
HLO - Level	8 10 12	350 425 525	ARFO - Level	8 10 12	160 200 240
HLO - Shallow	8 10 12	350 425 500	ARFO - Shallow	8 10 12	150 190 230
HLO - Deep	8 10 12	325 400 475			

### Adjustable end sleeve - TES

Adjustable end sleeve (TES) is designed to provide on-site luminaire adjustability of +2.5" to -4.5". A sleeve accommodates an easy installation and maintenance. Please refer to the End Sleeve Adjustment Installation Instructions for more details.



X = Fixture measure provided by client. X + 2.5" = Measurement built and supplied.



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## 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. Luminaire brightness is controlled by the flux-to-shielding area ratio.

#### Asymmetric Room Fill Optic (ARFO)

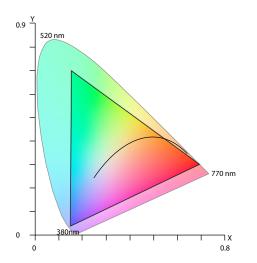
Our Asymmetric Room Fill Optic employs an advanced optical system to illuminate rooms and corridors from the perimeter, providing a direct distribution of light with precision and minimal glare.

#### LIGHT SOURCE

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 3 Perimeter is made up of standard 4' to 12' sections that may be joined together to create longer continuous run lengths. Exact run lengths must be noted in the product code. The minimum individual section available is 4'.

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.

#### 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 exposed or concealed T-bar or tegular ceiling, as well as in drywall ceilings with trim, trimless, or mud flange options.

#### FINISH

Interior: 95%, reflective matte powder coated white paint Exterior: Matte white 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: Flat rolled aluminum sheet or die-formed cold rolled steel, 95% reflective matte white painted

Lens: Acrylic

**Recessed flanges**: Extruded aluminum, up to 90% recycled content

End plate: Die-formed cold rolled sheet steel

#### MAINTENANCE

LED boards are housed in a removable cartridge for easy replacement. Driver is accessible from below.

#### WEIGHT

4': 11.12 lbs - 5.05 kg 8': 22.25 lbs - 10.1 kg 12': 33.48 lbs - 15.2 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 controlers are covered by the manufacturer warranty.

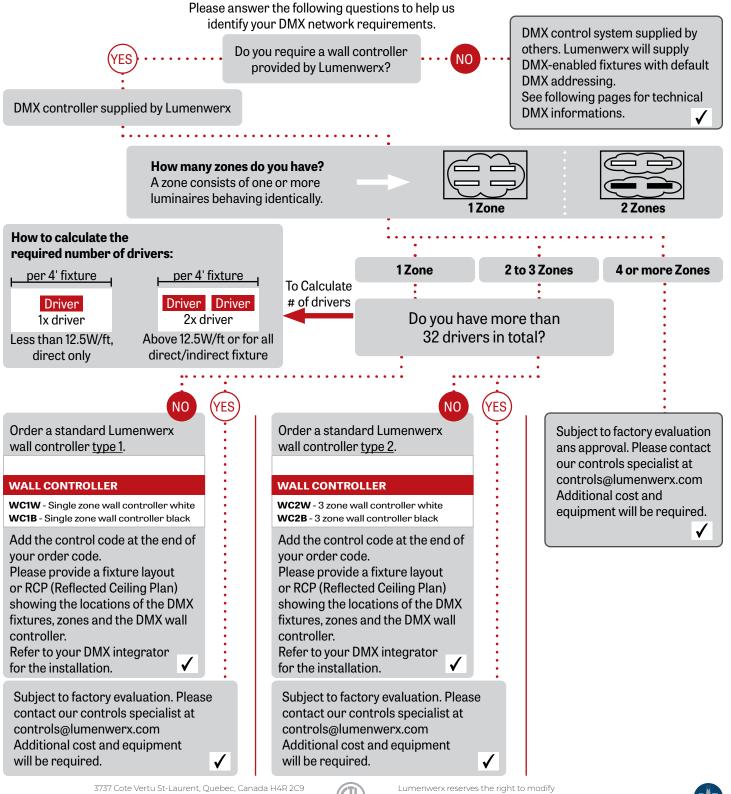






### **QUADRO** DMX SPECIFICATION

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.



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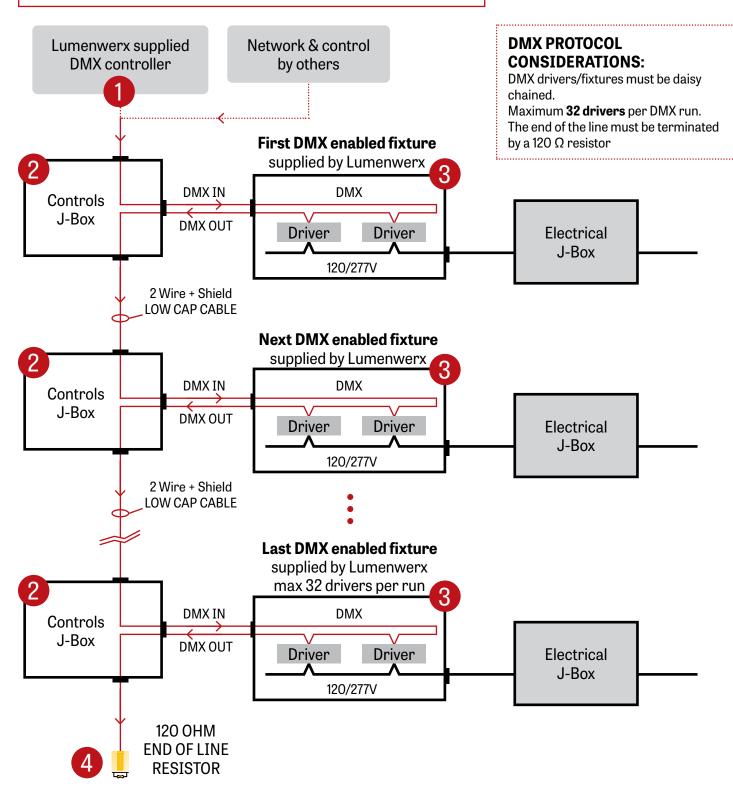


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### GENERIC DMX NETWORK ARCHITECTURE



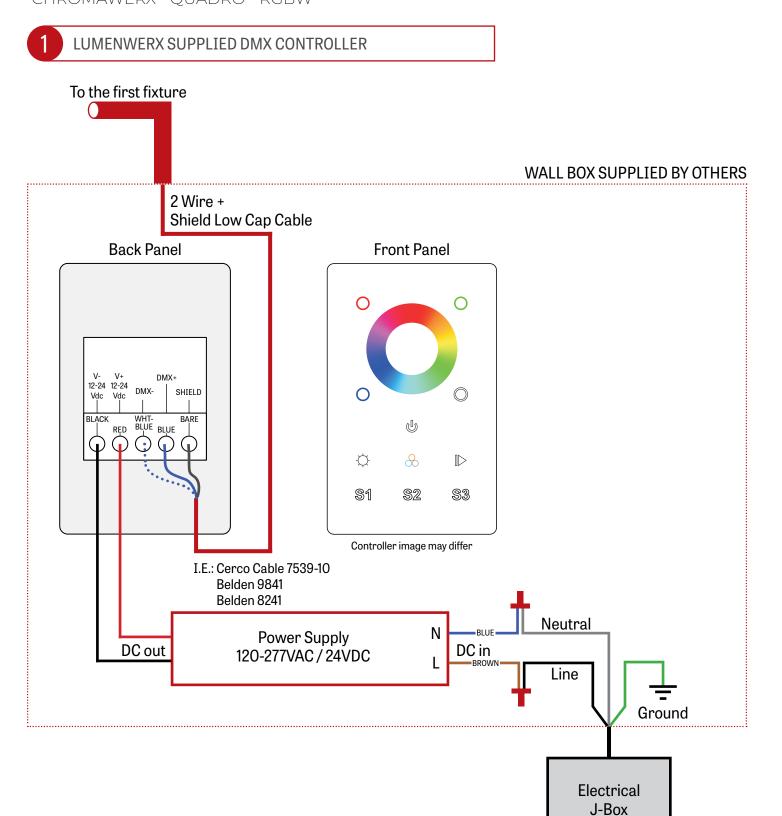
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## VIA 3 PERIMETER **L**umenwerx RECESSED CHROMAWERX - QUADRO - RGBW 2 J-BOX DMX DAISY CHAIN DETAIL Low capacitance DMX cable from previous fixture Shielding foil touches the bare IN Bare metal drain wire (shield) metal drain wire MUST NOT TOUCH J-BOX inside DMX IN Controls DMX ENABLED FIXTURE J-Box DMX OUT Ground -Bare metal drain wire (shield) OUT MUST NOT TOUCH J-BOX Low capacitance DMX cable to next fixture ..... 3 DMX CONNECTION PENDANT & WALL POWER DMX LINE IN OUT VOLTAGE |+ - s||+ - s| green black white DMX ENABLED FIXTURE **PWR** DMX Lumenwerx reserves the right to modify

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#### END OF LINE RESISTOR From other fixtures 120 OHM Last DMX OUT DMX IN L I I S I S CAP OFF SHIELD Т Shield = Bare metal **DMX -** = White-Blue DMX + = Blue Driver DMX I. н I. П LAST FIXTURE OF THE DMX NETWORK MAX 32 DRIVERS PER DMX RUN DMX + DMX -SHIELD Ś Т LED output I. • • Ţ I. DMX ENABLED FIXTURE I. п J. L

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DMX LAST FIXTURE DETAIL

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# VIA 3 PERIMETER RECESSED CHROMAWERX - QUADRO - RGBW

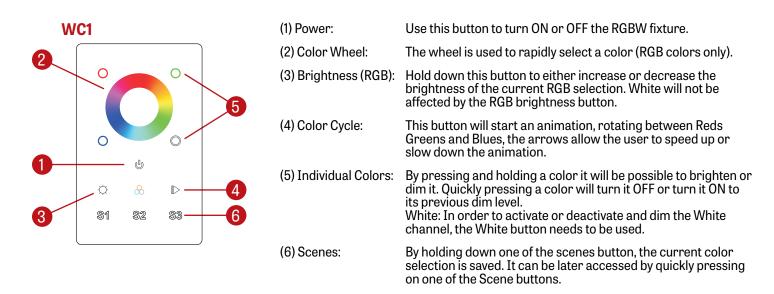


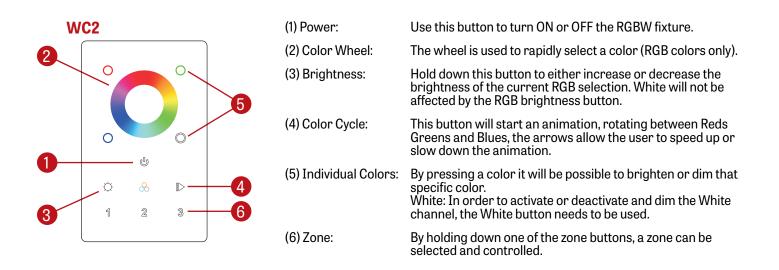






### DMX WALL CONTROLLER





#### **Default DMX Addresses:**

1 Red 2 Green 3 Blue 4 White

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