

# **L**umenwerx

#### 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

A drawing of your pattern is required - anything from a line drawing to an architectural drawing.

LUMINAIRE ID	OPTIC	LIGHT SOURCE <sup>2</sup>	WHITE CRI Specify NA for solid colors	OUTPUT WATTAGE <sup>3</sup>
V3PERLPAT- Via 3 Perimeter Level Pattern V3PERSPAT - Via 3 Perimeter Shallow Pattern V3PERDPAT - Via 3 Perimeter Deep Pattern	HLO - High-Efficiency Lambertian Optic ARFO' - Asymmetric Room Fill Optic	QUADRO - RGBW 4-channel control RS - Red solid CS - Green solid BS - Blue solid	80CRI - 80 CRI 90CRI - 90 CRI NA - Not applicable	8WF - 8 W/ft output 10WF <sup>4</sup> - 10 W/ft output 12WF <sup>4</sup> - 12 W/ft output <sup>3</sup> See page 3 for dedicated white
	<sup>1</sup> Not available with Deep fixtures.	<sup>2</sup> Static white, Chromawerx SOLA and DUO also available. Consult other spec sheets.		<ul> <li><sup>4</sup>Not available with solid colors.</li> </ul>

WHITE COLOR TEMP. Specify NA for solid colors	PATTERN LENGTH	CORNER TYPE <sup>6</sup>	VOLTAGE
27K - 2700K 30K - 3700K 35K - 3500K 40K - 4000K 50K - 5000K	<b>##FT##IN(#X#FT#IN-#X#FT#IN)</b> <sup>5</sup> - ##FT##IN: total nominal length of pattern in feet and/or inches #X: quantity of each section #FT#IN: nominal length of each section in feet and/or inches	#LEV12C(##) - 2-way leveled inside corner       ANCLE (##); (90) - 90°         #LEV02C(##) <sup>7</sup> - 2-way leveled outside corner       (##) <sup>7,8</sup> - Custom         *Specify quantity (#) and angle (##) for each required corner type	0110-1200-2770
<b>NA</b> - Not applicable	Continuous runs: lengths over 12' <sup>s</sup> Minimum fixture length is 4'.	<sup>9</sup> Not available with ARFO. <sup>9</sup> Minimum angle is 45°.	

DRIVER <sup>9</sup>		ELECTRICAL	MOUNTING	FINISH	OPTIONS <sup>12</sup>	ADJUSTABLE SLEEVE (optional) <sup>14</sup>
		1C				
QUADRO DMX <sup>10, 11</sup> - DMX <sup>9</sup> PoE (Power-over- compatible. Cons <sup>10</sup> To specify, see pa <sup>10</sup> On-site commissi	DA <sup>11</sup> - DALI Ethernet) ult factory for details. ges 7 to 12.	1C - 1 circuit	TC9 - 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>13</sup> - No end flanges FU120 - Fuse 120V FU277 - Fuse 277V FWC - Flexible whip cable (6' std) CP - Chicago Plenum NA - None <sup>12</sup> Separate codes with a "+" if more than one is specified. <sup>13</sup> For wall-to-wall installations.	#TES - Adjustable end sleeve, specify quantity (#) #TMS <sup>15</sup> - Adjustable mid sleeve, specify quantity (#) NA - None <sup>14</sup> See page 4 for details. <sup>15</sup> Minimum 6' fixture. Maximum 1 sleeve per section.

#### ACCESSOTIES Optional, order separately

#### DMX WALL CONTROLLER 16

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

WC2B - 3 zone wall controller black

<sup>16</sup> Available with DMX only. For more information, see pages 7 to 12, or consult factory.

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

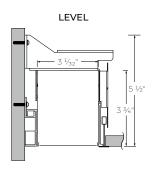
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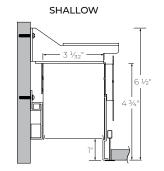


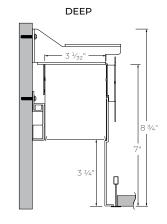




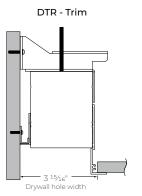
### Dimensions







DRYWALL

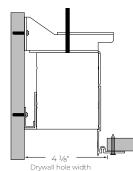


DTL - Trimless

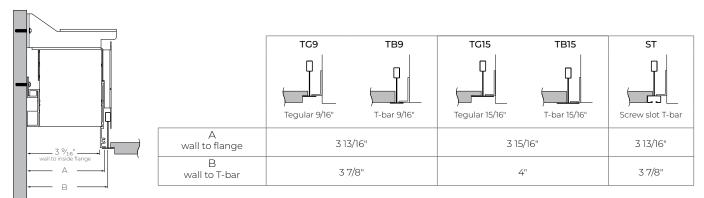
- 3 <sup>13</sup>/16" -

Drywall hole width

DMF - Mud flange



GRID



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### Photometrics

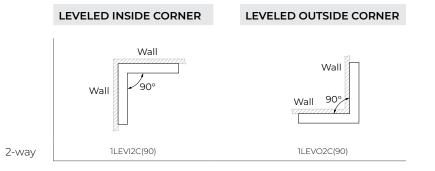
Dedicated white channel lumen outputs are calculated with only white light on, and based on a 4' fixture at 3500K and 80 CRI.

OPTIC	W/FT	LM/FT	OPTIC
	8	350	
HLO - Level	10	425	ARFO -
	12	525	
	8	350	
HLO - Shallow	10	425	ARFO -
	12	500	
	8	325	
HLO - Deep	10	400	
	12	475	

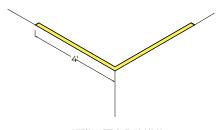
OPTIC	W/FT	LM/FT
	8	160
ARFO - Level	10	200
	12	240
	8	150
ARFO - Shallow	10	190
	12	230

### Pattern Layout

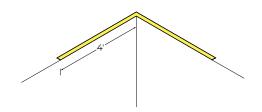
#### CORNER TYPES



#### EXAMPLES



8FT(2X4FT)-1LEVI2C(90)



8FT(2X4FT)-1LEVO2C(90)

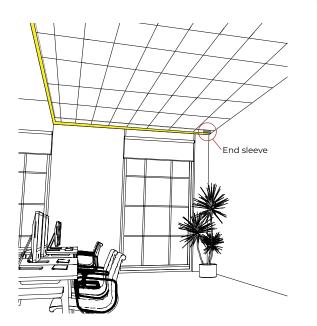




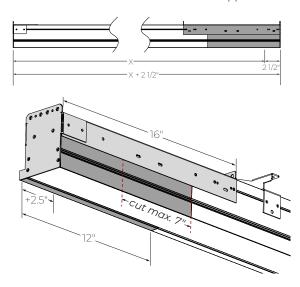


### Adjustable end sleeve - TES

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.



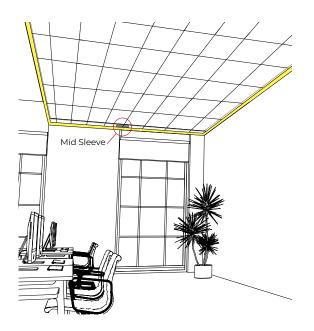
X = Fixture measure provided by client. X + 2.5" = Measurement built and supplied.



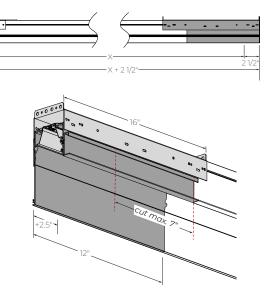
### Adjustable mid sleeve - TMS

Adjustable mid sleeve (TMS) 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 <u>Mid Sleeve Adjustment Installation Instructions</u> for more details.

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







### 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)

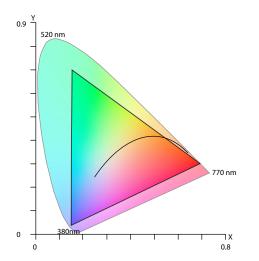
Our Asymmetric Room Fill Optic employs an advanced optical system to illuminate rooms and corridors from the perimeter, providing a direct distribution of light with precision and minimal glare.

#### 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.

#### PATTERN LENGTH

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.

#### 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

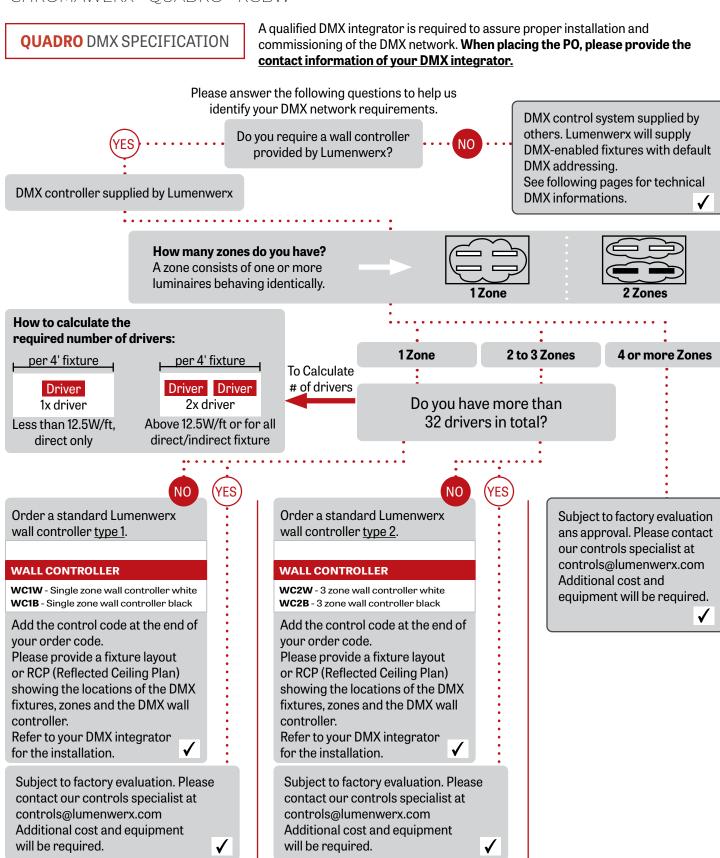
Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated 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.









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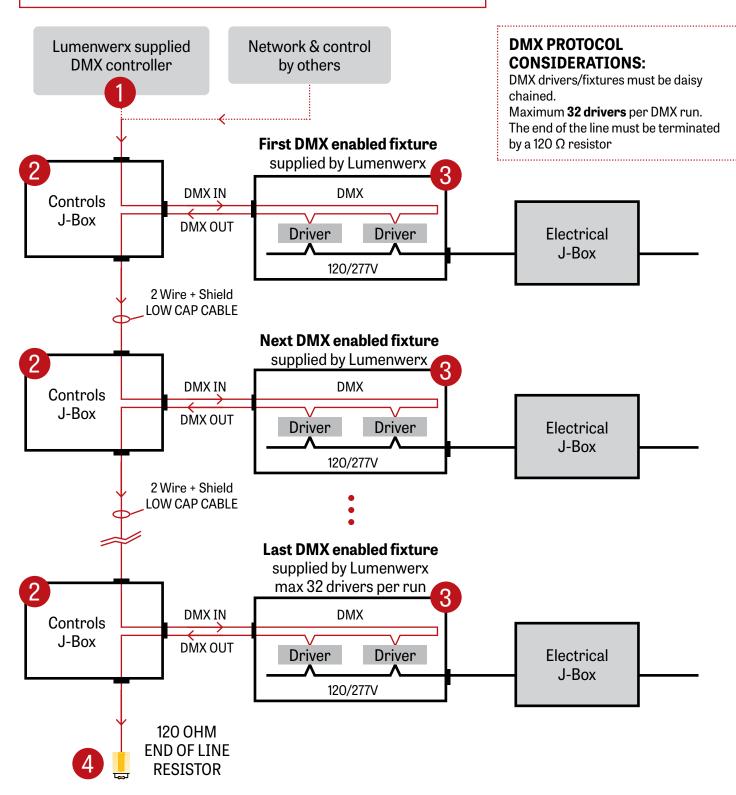


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### GENERIC DMX NETWORK ARCHITECTURE



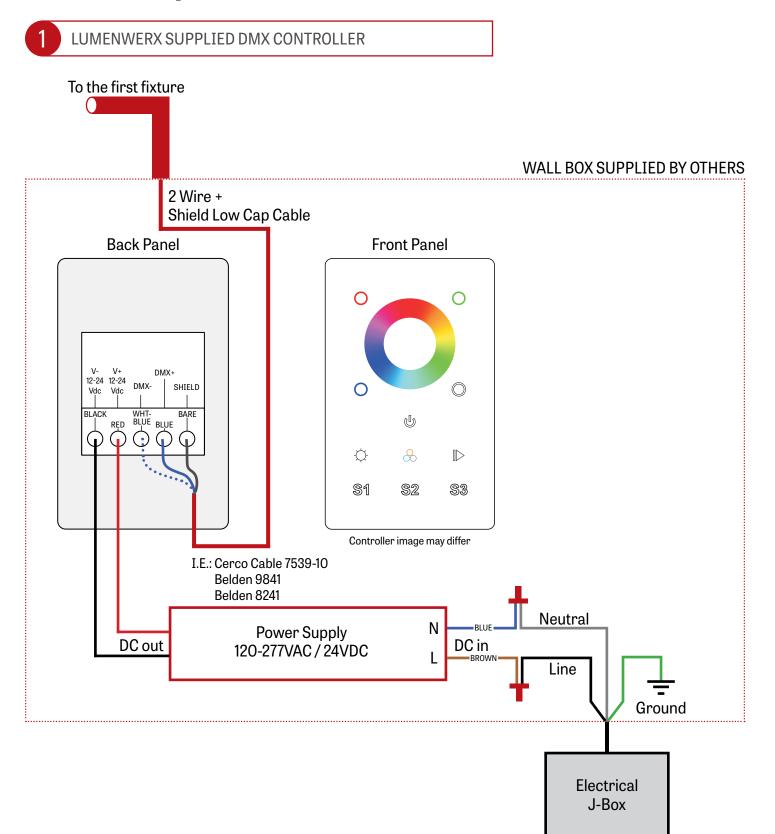
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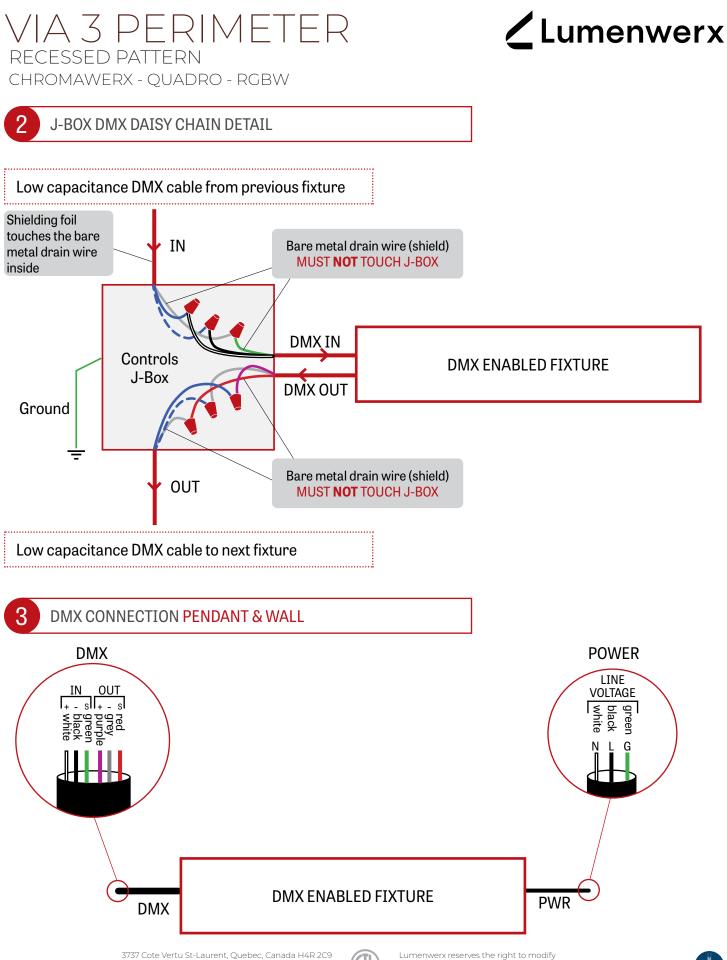






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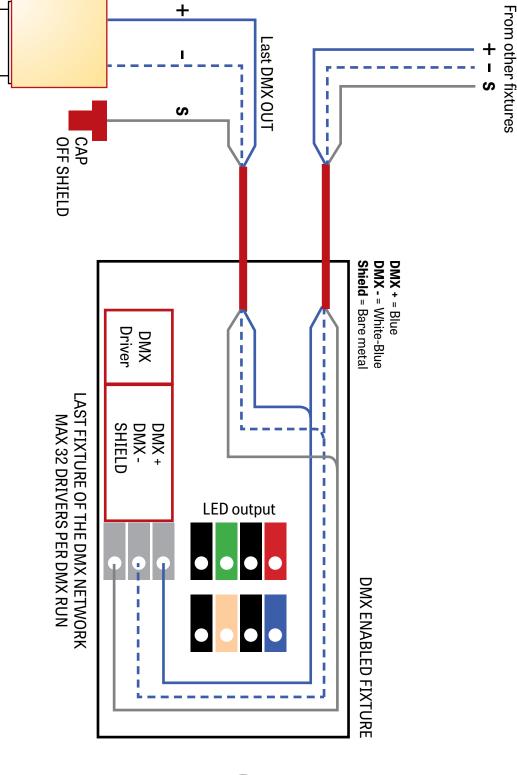




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E

DMX LAST FIXTURE DETAIL

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END OF LINE

120 OHM

RESISTOR

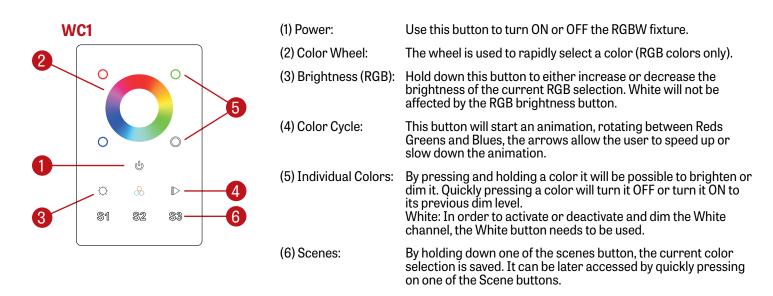
### /IA 3 PERIMETE RECESSED PATTERN CHROMAWERX - QUADRO - RGBW

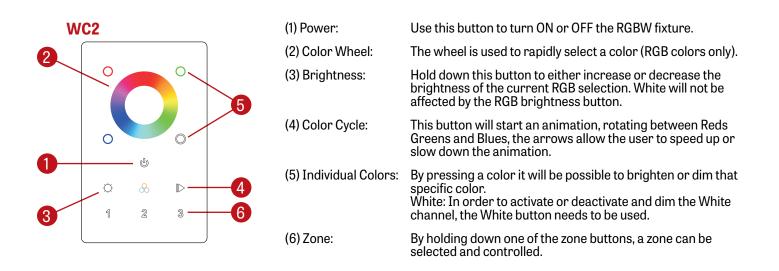


DMX IN



### DMX WALL CONTROLLER





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

1 Red 2 Green 3 Blue 4 White

