### REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - QUADRO - RGBW



### LUMENWERX

Project:

Type:





#### DESCRIPTION

Pop Recessed Regressed Square is a flexible, elegant, low-glare luminaire available in 10 different sizes. Its innovative, precision-crafted Uniform Lambertian Optic (ULO) allows all models to have a Uniform Glare Rating (UGR) of <19, beneficial for creating well-balanced, low glare architectural spaces. The fixture can be integrated in various grid ceiling and gypsum board setups. Pop Regressed Square comes in Chromawerx Quadro. Consult web pages for Static White, BIOS LED, Chromawerx Sola and Duo solutions for Pop Regressed

### Order Guide

LUMINAIRE ID	SIZE	OPTIC	LIGHT SOURCE 1	OUTPUT WATTAGE <sup>2</sup>		VOLTAGE
PORRGSQ		ULO				
PORRGSQ - Pop Recessed Regressed Square	0505 - 6" X 6" 052 - 6" X 2" 054 - 6" X 4' 11 - 1' X 1' 12 - 1' X 2' 14 - 1' X 4' 22 - 2' X 2' 24 - 2' X 4' 44 - 4' X 4' 2060 - 20" X 60"	<b>ULO</b> - Uniform Lambertian Optic	QUADRO - Four-channel RGB with 3500K/80 CRI RS - Red solid BS - Blue solid GS - Green solid 1 Static white, BIOS, Chromawerx Sola and Duo also available. Consult other spec sheets.	<sup>3</sup> Certain co	3W - 3W output (60 white lumens) 26W - 26W output (280 white lumens) 26W - 26W output (670 white lumens) 13W - 13W output (360 white lumens) 26W - 26W output (750 white lumens) 51W - 51W output (1410 white lumens) 51W - 51W output (1510 white lumens) 102W - 102W output (3310 white lumens) 204W - 204W output (6650 white lumens) 106W - 106W output (3450 white lumens) colors, consult factory. onditions apply. Remote driver boxes, or inixtures per driver may be required. Consult	120 -120V 277 - 277V UNV - 120V-277V

DRIVER <sup>4</sup>	ELECTRICAL	MOUNTING				FINISH	OPTIONS
	1						
DMX 56 - DMX	1 - 1 circuit	On-grid <sup>8</sup>	Off-grid <sup>9</sup> - centered in tile	Drywall	Side-by-side 10	W - Matte white	<b>FU120</b> - Fuse 120V <b>FU277</b> - Fuse 277V
D17 - 0-10V  4PoE (Power-over-Ethernet) compatible. Consult factory for		GRD - Grid ceiling	GRDC - Grid ceiling, centered in tile	<b>DF</b> - Drywall trim kit <b>DMF</b> - Drywall mud flange	SBS - Side-by-side mounting	finish, specify RAL#	FWC - Flexible whip cable (6' std) CP - Chicago Plenum
details. <sup>5</sup> On-site commissioning is required. <sup>6</sup> To specify, see pages 6 to 11. <sup>7</sup> Available for solid colors only.		<sup>9</sup> Not available with	6" X 6", 6" X 2', 6" X 4', ar 2' X 2', 2' X 4', 4' X 4', and ired to show your side-		NA - None		

### Accessories

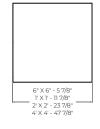
Optional, order separately

### DMX WALL CONTROLLER 11

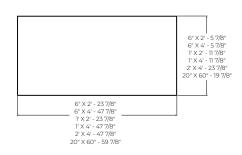
WC1W - Single zone wall controller white WC1B - Single zone wall controller black WC2W - 3 zone wall controller white WC2B - 3 zone wall controller black

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

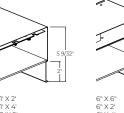
#### Top View



www.lumenwerx.com



#### 3D Cross section



(2'		
(4'		
< 2'		
< 4'		
X 4'		
" X 60"		



3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9 T (514) 225-4304 F (514) 931 -4862





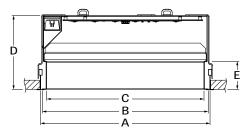


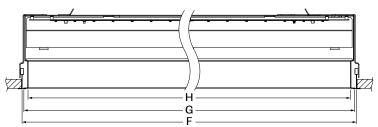
REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - QUADRO - RGBW

### Dimensions (shown with 1' X 4')

**GRD** - Grid ceiling, on-grid mounting

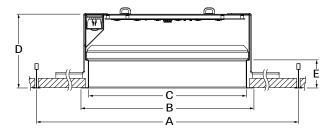
SIZE	Α	В	С	D	E	F	G	н
1' X 2'	12"	11 7/8"	11 1/4"	5 9/32"	2"	24"	23 7/8"	23 1/4"
1' X 4'	12"	11 7/8"	11 1/4"	5 9/32"	2"	48"	47 7/8"	47 1/4"
2' X 2'	24"	23 7/8"	23 1/4"	5 9/32"	2"	24"	23 7/8"	23 1/4"
2' X 4'	24"	23 7/8"	23 1/4"	5 9/32"	2"	48"	47 7/8"	47 1/4"
4' X 4'	48"	47 7/8"	47 1/4"	5 9/32"	2"	48"	47 7/8"	47 1/4"
20" X 60"	20"	19 7/8"	19 1/4"	5 9/32"	2"	60"	59 7/8"	59 1/4"

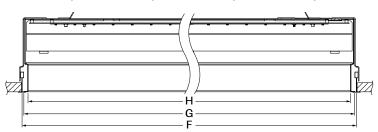


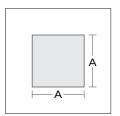


**GRDC** - Grid ceiling, off-grid mounting - centered in tile

SIZE	А	В	С	D	E	F	G	н
6" X 6"	N/A	6 3/8"	5 1/4"	6 3/8"	2"	N/A	6 3/8"	5 1/4"
6" X 2'	24"	6 3/8"	5 1/4"	6 3/8"	2"	24"	23 7/8"	23 1/4"
6" X 4'	24"	6 3/8"	5 1/4"	6 3/8"	2"	48"	47 7/8"	47 1/4"
1' X 1'	N/A	12 3/8"	11 1/4"	6 3/8"	2"	N/A	12 3/8"	11 1/4"
1' X 2'	24"	12 3/8"	11 1/4"	5 9/32"	2"	24"	23 7/8"	23 1/4"
1' X 4'	24"	12 3/8"	11 1/4"	5 9/32"	2"	48"	47 7/8"	47 1/4"

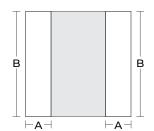






Cut-out dimensions

SIZE	Α
6"X6"	5-3/4"
1'X1'	11-3/4"



Tile cut dimensions

SIZE	Α	В
6"X2'	9"	23-3/4"
6"X4'	9"	47-3/4"
1'X2'	6"	23-3/4"
1'X4'	6"	47-3/4"

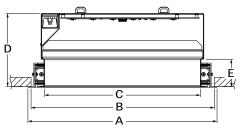


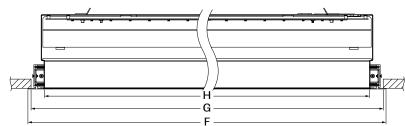


REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - QUADRO - RGBW

**DF** - Drywall trim kit

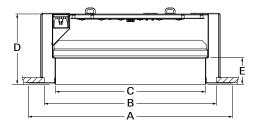
SIZE	Α	В	С	D	E	F	G	н
6" X 6"	7 21/32"	7 1/4"	5 1/4"	6 3/8"	2"	7 21/32"	7 1/4"	5 1/4"
6" X 2'	7 21/32"	7 1/4"	5 1/4"	6 3/8"	2"	25 21/32"	25 1/4"	23 1/4"
6" X 4'	7 21/32"	7 1/4"	5 1/4"	6 3/8"	2"	49 21/32"	49 1/4"	47 1/4"
1' X 1'	13 21/32"	13 1/4"	11 1/4"	6 3/8"	2"	13 21/32"	13 1/4"	11 1/4"
1' X 2'	13 21/32"	13 1/4"	11 1/4"	5 9/32"	2"	25 21/32"	25 1/4"	23 1/4"
1' X 4'	13 21/32"	13 1/4"	11 1/4"	5 9/32"	2"	49 21/32"	49 1/4"	47 1/4"
2' X 2'	25 21/32"	25 1/4"	23 1/4"	5 9/32"	2"	25 21/32"	25 1/4"	23 1/4"
2' X 4'	25 21/32"	25 1/4"	23 1/4"	5 9/32"	2"	49 21/32"	49 1/4"	47 1/4"
4' X 4'	49 21/32"	49 1/4"	47 1/4"	5 9/32"	2"	49 21/32"	49 1/4"	47 1/4"
20" X 60"	21 21/32"	21 1/4"	19 1/4"	5 9/32"	2"	61 /21/32"	61 1/4"	59 1/4"

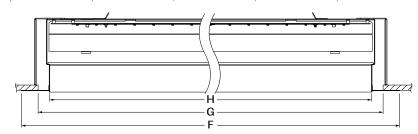




**DMF** - Drywall mud flange

SIZE	А	В	С	D	E	F	G	н
6" X 6"	9 11/32"	7 1/8"	5 1/4"	6 3/8"	2"	9 11/32"	7 1/8"	5 1/4"
6" X 2'	9 11/32"	6 3/4"	5 1/4"	6 3/8"	2"	27 11/32"	24 3/4"	23 1/4"
6" X 4'	9 11/32"	6 3/4"	5 1/4"	6 3/8"	2"	51 11/32"	48 3/4"	47 1/4"
1' X 1'	15 11/32"	12 3/4"	11 1/4"	6 3/8"	2"	15 11/32"	12 3/4"	11 1/4"
1' X 2'	15 11/32"	12 3/4"	11 1/4"	5 9/32"	2"	27 11/32"	24 3/4"	23 1/4"
1' X 4'	15 11/32"	12 3/4"	11 1/4"	5 9/32"	2"	51 11/32"	48 3/4"	47 1/4"
2' X 2'	27 11/32"	24 3/4"	23 1/4"	5 9/32"	2"	27 11/32"	24 3/4"	23 1/4"
2' X 4'	27 11/32"	24 3/4"	23 1/4"	5 9/32"	2"	51 11/32"	48 3/4"	47 1/4"
4' X 4'	51 11/32"	48 3/4"	47 1/4"	5 9/32"	2"	51 11/32"	48 3/4"	47 1/4"
20" X 60"	23 11/32"	20 3/4"	19 1/4"	5 9/32"	2"	63 11/32"	60 3/4"	59 1/4"









# REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - QUADRO - RGBW



### Technical Specifications

#### **OPTIC**

**Uniform Lambertian Optic (ULO)** - This optic provides a smooth homogenous glow with even illumination and consistent distribution. With Pop Regressed, ULO offers excellent visual comfort in all aperture sizes, from smallest to largest.

#### LIGHT SOURCE

Custom 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 L90 lumen maintenance greater than 60,000 hours reported, 150,000 hours projected. 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.

#### 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%.

#### 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 OPTIONS

#### On-grid

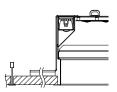
Recessed mount in a grid ceiling



GRD - Grid ceiling

#### Off-grid - centered in tile

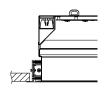
Recessed mount in the center of a tile in a grid ceiling.

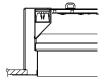


GRDC - Grid ceiling, centered in tile

#### Drywall

Recessed mount in drywall ceilings with trim kit, or mud flange options.



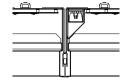


**DF** - Drywall trim kit

**DMF** - Drywall mud flange

#### Side-by-side

Recessed mount in a side-by-side group formation. To determine brackets, and mounting details, a drawing illustrating your side-by-side configuration, with ceiling details, is required.



SBS - Side-by-side mounting





### REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - OUADRO - RGBW



#### FINISH

Interior - 95% reflective, matte white powder coating.

Exterior - Matte white powder coating. Custom finishes are also available.

#### CONSTRUCTION

Housing - 20 gauge cold rolled steel. Diffuser - 0.125" thick white acrylic.

#### WEIGHT

6" X 6" - 3.6 lbs - 1.7 kg

6" X 2' - 9.2 lbs - 4.2 kg

6" X 4' - 16 lbs - 7.3 kg

1' X 1' - 8.1 lbs - 3.7 kg

1' X 2' - 12.6 lbs - 5.7 kg

1' X 4' - 22.7 lbs - 10.3 kg

2' X 2' - 22.9 lbs - 10.4 kg

2' X 4' - 39.9 lbs - 18.1 kg

4' X 4' - 72.2 lbs - 32.7 kg

20" X 60" - 41.5 lbs - 18.8 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) 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 controllers are covered by the manufacturer warranty.





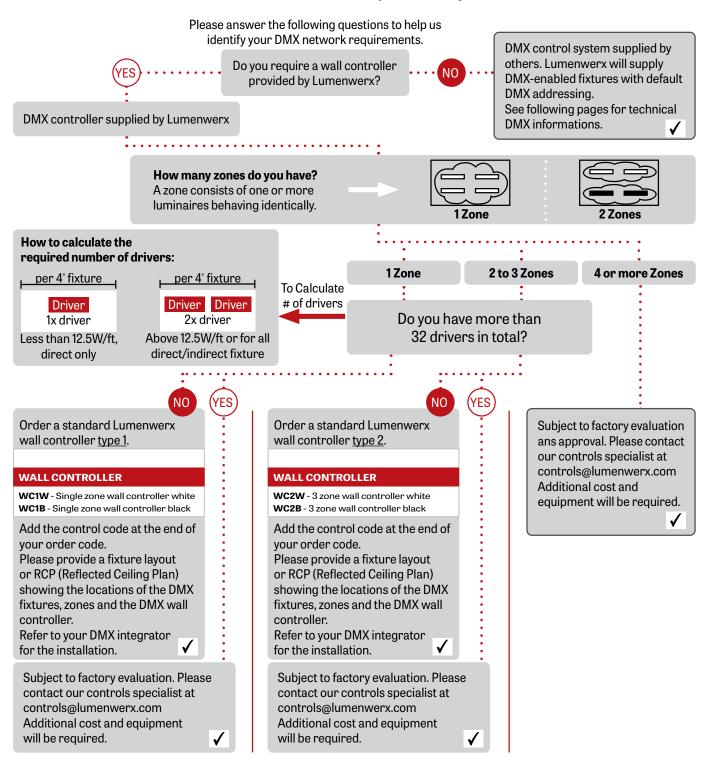




REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - QUADRO - RGBW

### **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.

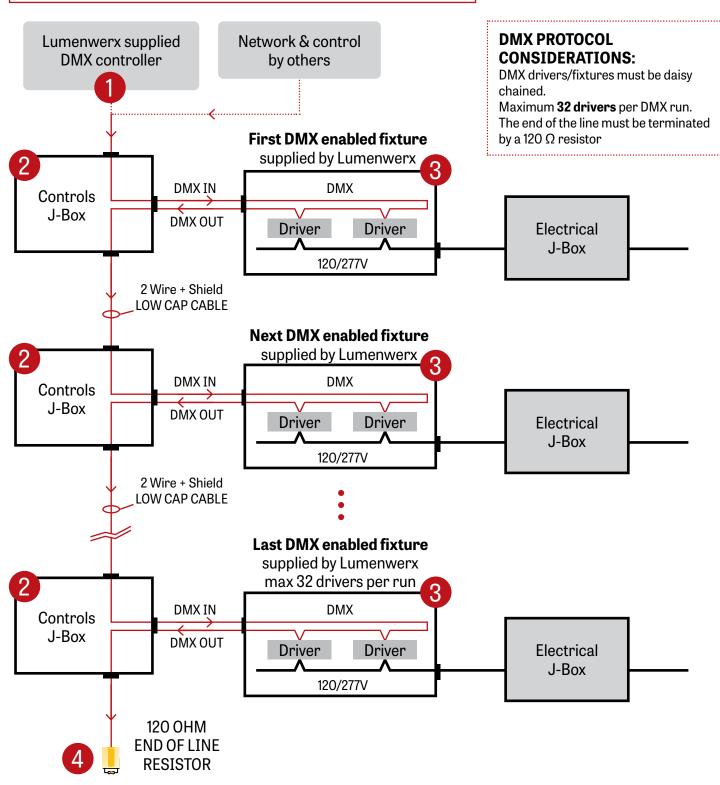






REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - QUADRO - RGBW

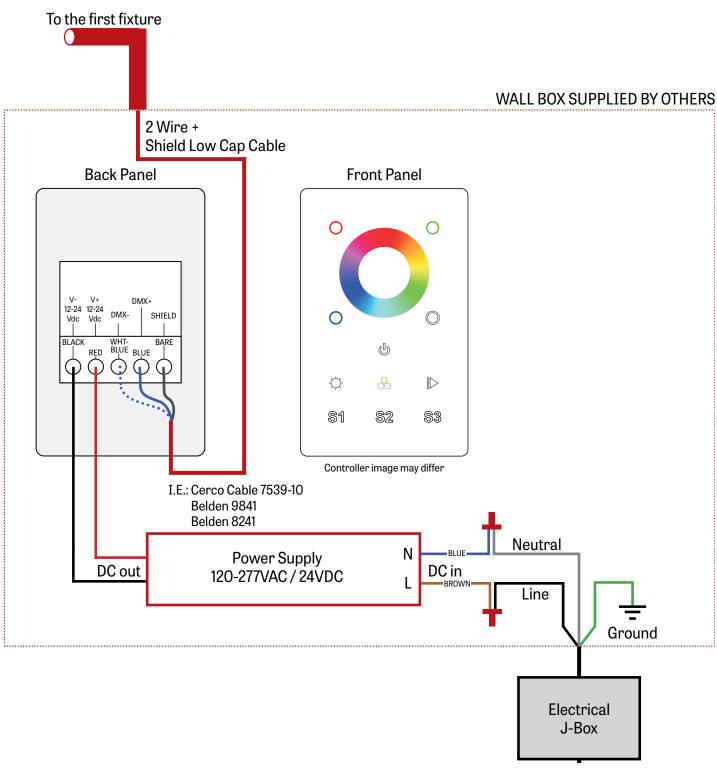
### GENERIC DMX NETWORK ARCHITECTURE





REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - QUADRO - RGBW

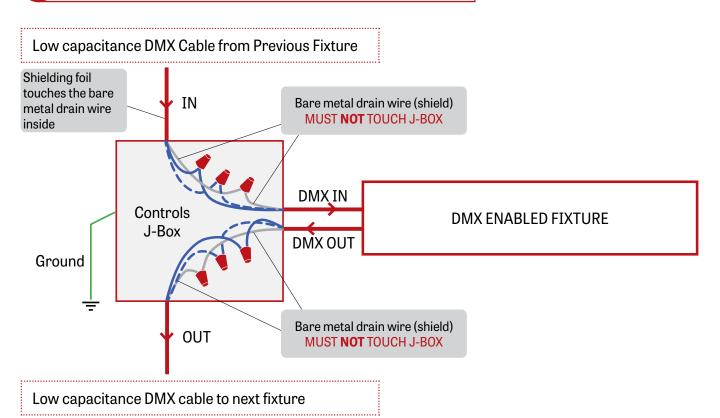
1 LUMENWERX SUPPLIED DMX CONTROLLER





REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - QUADRO - RGBW

2 J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION RECESSED & SURFACE

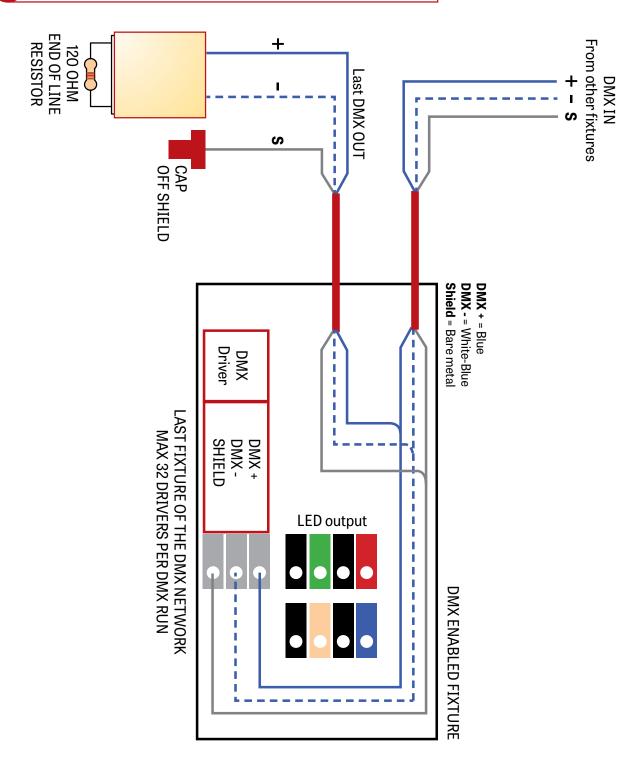






REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - QUADRO - RGBW

4 DMX LAST FIXTURE DETAIL

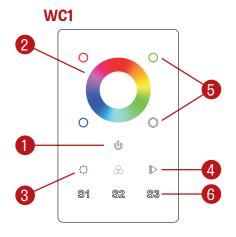






REGRESSED SQUARE AND RECTANGULAR CHROMAWERX - QUADRO - RGBW

#### 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.

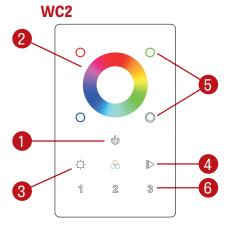
White: In order to activate or deactivate and dim the White

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

