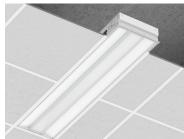




### **CHROMAWERX QUADRO - RGBW**





PROJECT:	
APPROVED BY: SIGNATURE:	

Grid - shown with a Nova flat lens

Grid - shown with a Nova Slope lens

#### DESCRIPTION

Nova is an efficient architectural LED troffer with a distinctive luminous shielding that distributes gentle brightness from the sides of its central optical element. Using advanced LED engines, Nova provides highly efficient illumination and offers comprehensive ceiling, electrical, and controls options in 2x2, 1x4, and 2x4 sizes. Nova is available with both Flat and Slope side diffusers. Nova is an ideal vehicle for Chromawerx color tuning in education, office, and healthcare applications where modular luminaires are used. See separate spec sheets for other available mountings.



**IC RATED** 

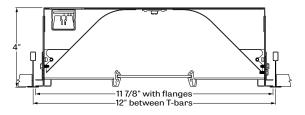
#### **ORDER GUIDE**

	14	РМО	HLO	LED		
LUMINAIRE ID	SIZE	CENTER OPTICS	SIDE OPTICS	LIGHT SOURCE	CHROMAWERX	OUTPUT WATTAGE
NOVRF - nova	<b>14</b> - 1'x4'	PMO - Precision	HLO - High-Efficiency	LED - high	QUADRO - four-channel RGB	20W - 20 watts output (for solid colors only)
recessed flat		Micro-Prism Optic	Lambertian Optic	performance LED	with 3500K white	20W - 20 watts output (quadro only)
NOVRS - nova					RS - red solid	25W - 25 watts output (quadro only)
recessed slope					<b>GS</b> - green solid	<b>30W</b> - 30 watts output (quadro only)
					BS - blue solid	

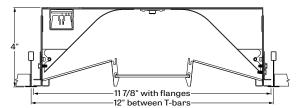
See page 2 for ordering code detailed information

		1			
VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	FINISH	OPTIONS
<b>120</b> - 120V	DMX - to specify see pages 4 to 9	1-1 circuit	<b>TG9</b> - tegular 9/16"	W - matte white	FU - fuse
<b>277</b> - 277V	DA - DALI (solid colors only) local		<b>TG15</b> - tegular 15/16"	CF# - custom	FWC - flexible whip
	on-site commissioning is required		<b>TB9</b> - t-bar 9/16"	finish specify	cable (6' std)
	0-10 - 0-10 (solid colors only)		<b>TB15</b> - t-bar 15/16"	RAL#	CP - Chicago Plenum
			ST - screw slot t-bar		CU - custom
			<b>DF</b> - drywall kit		

#### **CROSS SECTION**

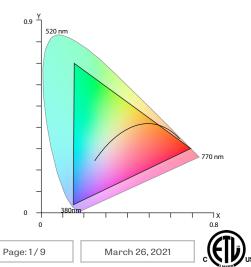


NOVRF - nova flat t-bar 9/16



NOVRS - nova slope t-bar 9/16

File Name: NOVA-14-RGBW-RECESSED-SPEC-REV1



HROMAWERX

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Intertek

# NOVA 1x4 LED

RECESSED

### 

### **CHROMAWERX QUADRO - RGBW**

#### **OPTICS**

**CENTER LENS - PRECISION MICRO-PRISM-OPTIC (PMO)** - utilizes a specially designed catadioptric lens that combines refraction and internal reflection. The square-base prism is 24% the size of those used in a high-performance fluorescent lens. The exclusive two-dimensional array of prisms is designed to eliminate the glare found at higher viewing angles and as such, enables a glare cut-off at a 45° viewing angle.

The acrylic material itself is untinted, relying entirely on catadioptric control for effective source obscuration. A highly efficient TIR process at the acrylic-air interface on the prism surfaces redirects incident light with less than a 0.1% loss per reflection. As a result, these Lumenwerx optics attain a high optical efficiency greater than 90%, while maintaining visual comfort at normal viewing angles and presenting a pleasing luminous appearance.

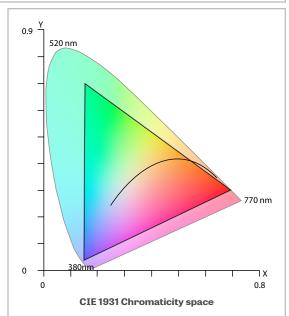
**SIDE LENS - HIGH EFFICIENCY LAMBERTIAN OPTIC (HLO)** - shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration.

#### LIGHT SOURCE - LED

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 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 - 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 standalone 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.

#### ELECTRICAL DMX

Factory-set, adjustable output current, multichannel 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%.

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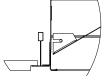


### **CHROMAWERX QUADRO - RGBW**

#### **MOUNTING OPTIONS**

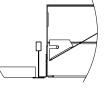
Recess mount into exposed or concealed T-Bar or Tegular grid ceiling





**TG9** - tegular 9/16"

**TG15** - tegular 15/16





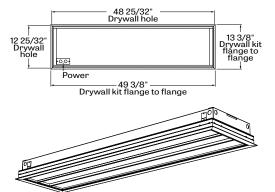
**TB9** - t-bar 9/16"

**TB15** - t-bar 15/16



ST - screw slot t-bar

A separate kit for mounting fixtures into drywall ceilings



DF - drywall kit

#### FINISH

Interior reflectors - 95% reflective, matte white powder coating Exterior - matte white powder coating. Custom finish is also available.

#### CONSTRUCTION

Housing - Die formed cold rolled sheet steel 20 gauge thick, matte white powder coating. Reflectors - Cold rolled steel 0.030" thick precisely die formed, 95% reflective matte white painted. Interior brackets - Die formed cold rolled sheet steel 20 gauge thick.

Center basket - Extruded aluminum 0.07" nominal, matte white and lens made in clear PMMA precisely formed into optical micro-structures forms. Side lenses - Frost impact acrylic lens 88% transmissive.

**Drywall kit** - Extruded aluminum 0.07" nominal, matte white powder coating.

#### WEIGHT

**Nova 1x4**: 24.56lbs.+3.08 lbs (drywall kit) -11.15kg+1.4kg (drywall kit)

#### 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

For all Chromawerx products, 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.

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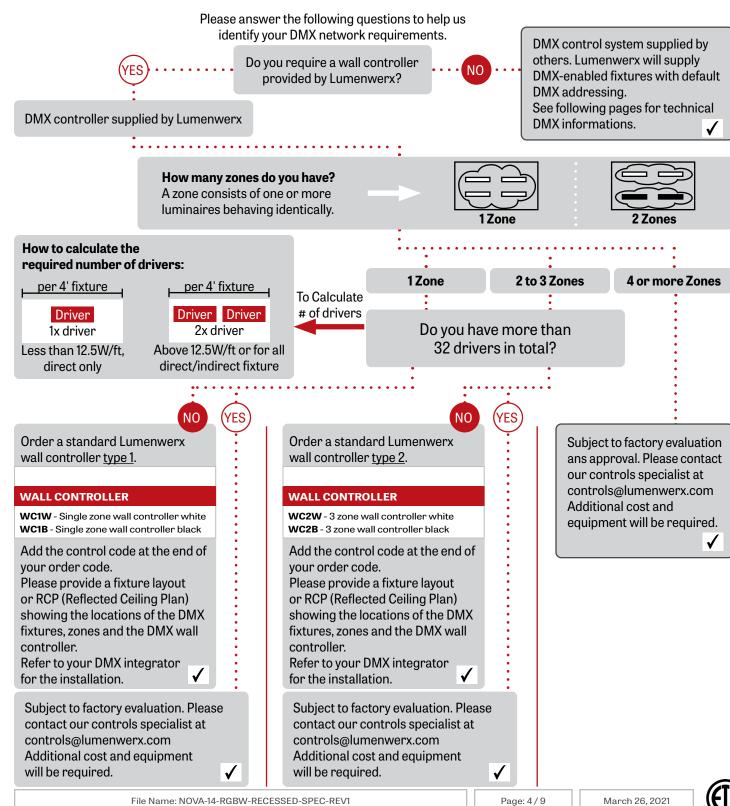




### **CHROMAWERX QUADRO - RGBW**



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.



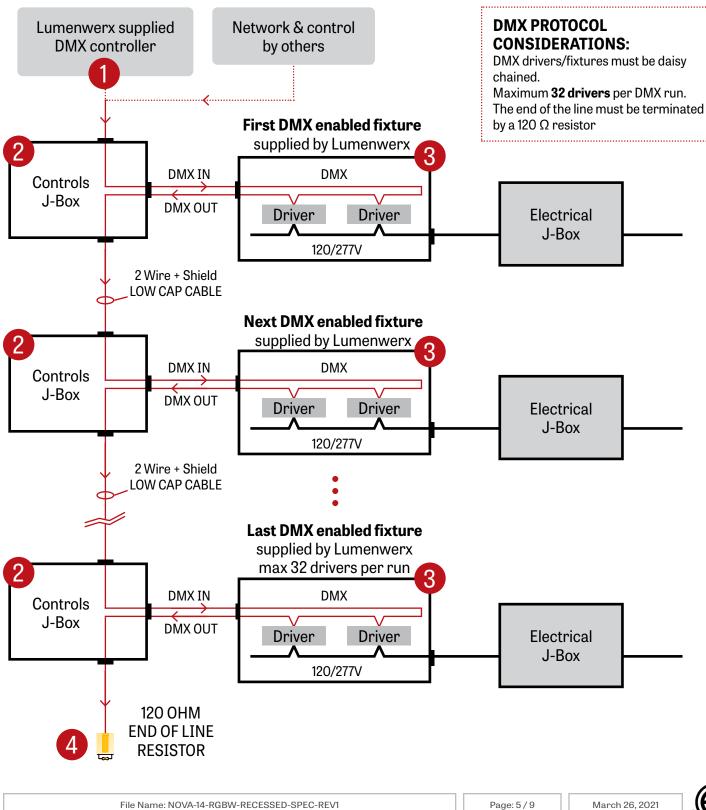






### **CHROMAWERX QUADRO - RGBW**

### GENERIC DMX NETWORK ARCHITECTURE

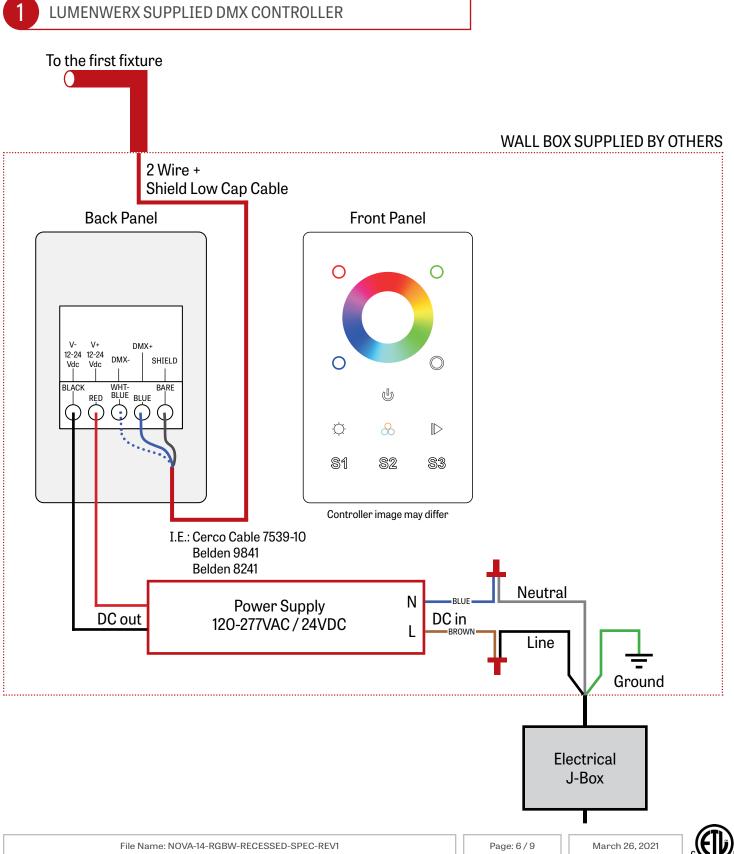




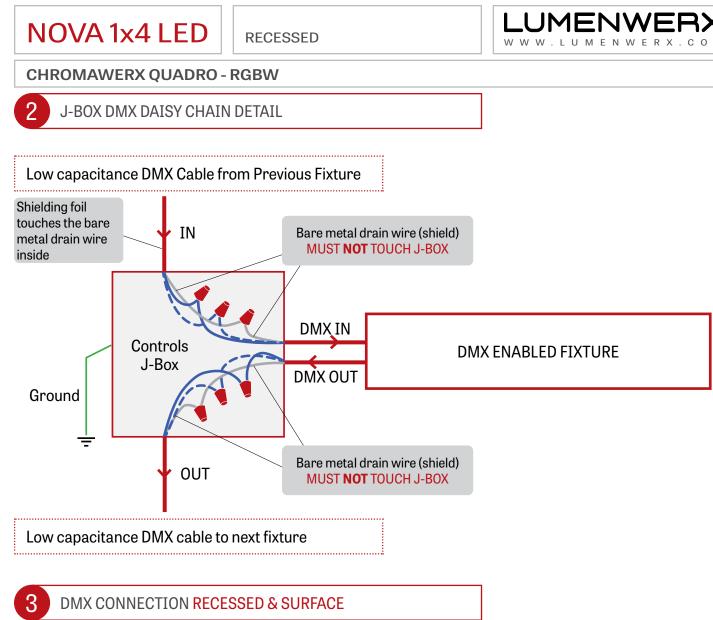


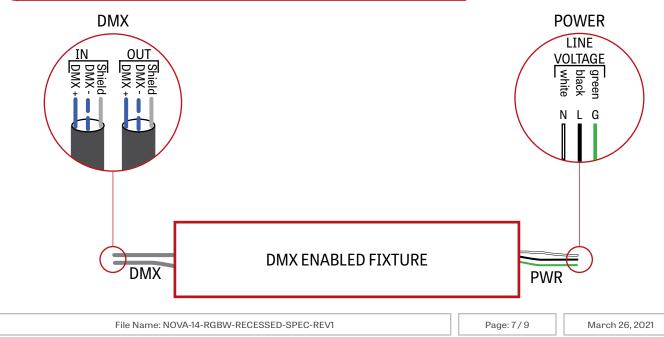


### **CHROMAWERX QUADRO - RGBW**









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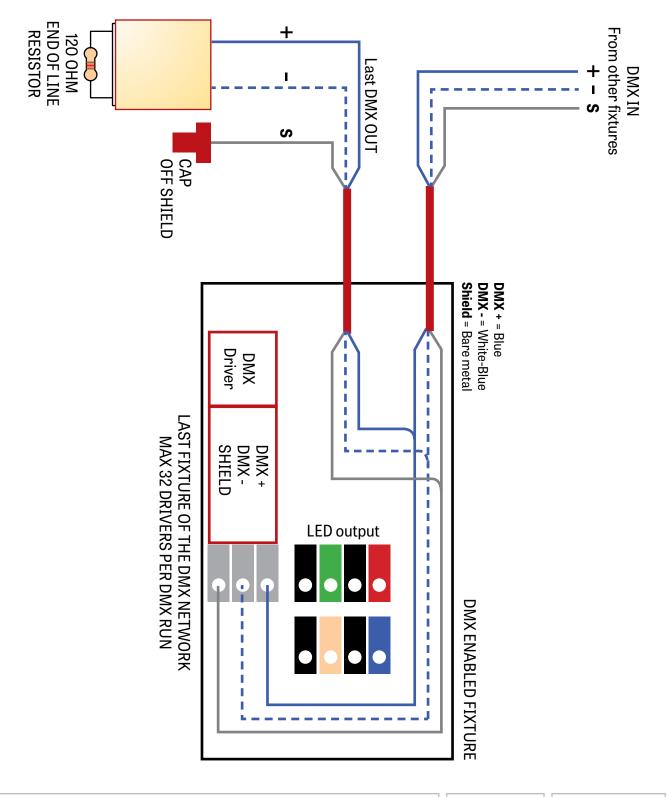




### **CHROMAWERX QUADRO - RGBW**

## 4

### DMX LAST FIXTURE DETAIL



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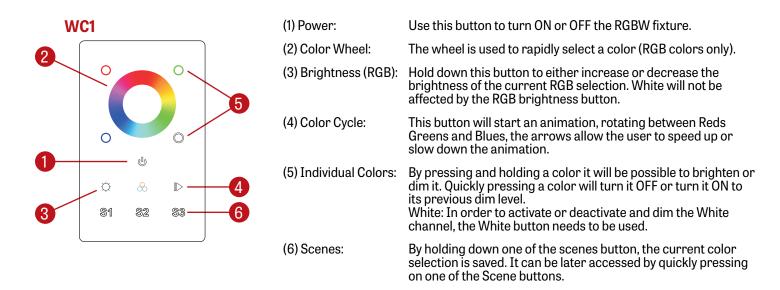
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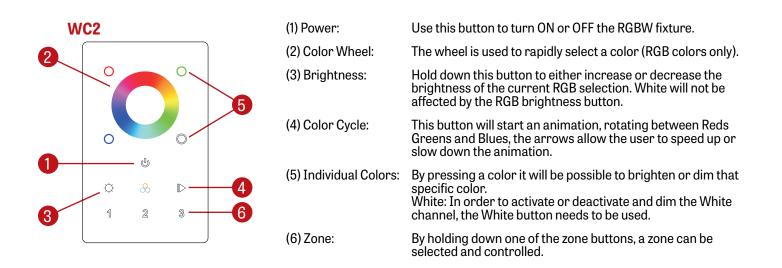




### **CHROMAWERX QUADRO - RGBW**

### DMX WALL CONTROLLER





### **Default DMX Addresses:**

1 Red 2 Green 3 Blue 4 White

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