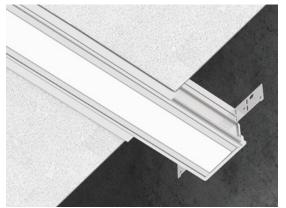


# CHROMAWERX TUNABLE WHITE AND DIM TO WARM

# IMPORTANT: a qualified DMX integration consultant is required to ensure proper installation and function of any DMX network



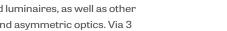
Grid - shown with WRO2 optics

#### **DESCRIPTION**

Elegant and flexible, the Via 3 Recessed Wall Wash features our Asymmetrical Lens Optic for smooth, comfortable and efficient illumination of vertical surfaces. Via 3 Recessed Wall Wash offers a wide range of lumen packages, color choices,

mounting and electrical and controls options. It is part of the larger Via family, which includes

visually coordinated recessed and mounted luminaires, as well as other light distributions, including wall washing and asymmetric optics. Via 3 is an ideal vehicle for ChromaWerx white tuning in education, office, and healthcare applications where modular luminaires are used.



HROMAWERX

# up to 105 lm/w performance

**ORDER GUIDE IC RATED** 

VIA3R	WRO2	LED			
LUMINAIRE ID	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	CHROMAWERX
VIA3R - via 3" recessed	WRO2 - wallwash refractive optic	LED - high performance LED	<b>80</b> - 80CRI	375 - min. low output 375lm/ft	<b>DUO</b> - tunable white 2 channel
	version 2		<b>90</b> - 90CRI	500 - medium output 500lm/ft	control 27k to 65k
				750 - max. high output 750lm/ft	<b>SOLA</b> - dim to warm single
				#### - other required Im/ft	channel control 22k to 35k

			1		
LUMINAIRE LENGTH	VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	FINISH
Available sections - 4', 6', 8', 10' & 12'	120 - 120V	DMX - to specify see pages 6 to 11	1-1 circuit	<b>TG9</b> - tegular 9/16"	<b>W</b> - matte white
#FT - nominal length in feet	<b>277</b> - 277V	DA - Dali (duo only) local on-site commissioning is		<b>TG15</b> - tegular 15/16"	CF# - custom finish
(2' increments only)		required		<b>TB9</b> - t-bar 9/16"	specify RAL#
Continuous Run - for luminaires over 12'		0-10 - Single 0-10V input (Sola) or dual 0-10V input		<b>TB15</b> - t-bar 15/16"	
Minimum Individual section 4'		for CCT/Intensity (Duo)		ST - screw slot t-bar	
		<b>PSQ0</b> - Lutron T-Series 1% Tunable White (Duo only)		DTR - drywall trim	
				DTL - drywall trimless	
				DMF - drywall mud flange	

See page 2 for ordering code detailed information

### **OPTIONS**

FU - fuse

CU - custom

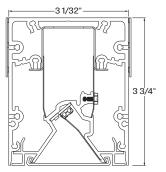
FWC - flexible whip cable (6' std)

CP - Chicago Plenum

DMX WALL CONTROLS

To specify see pages 6 to 11

#### **CROSS SECTION**



VIA3R - wall wash

TECHZONE™ & USG Compatible with 4" ceiling

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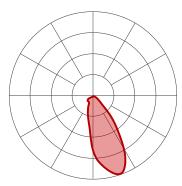




# CHROMAWERX TUNABLE WHITE AND DIM TO WARM

#### **PHOTOMETRICS**

Please follow the multiplier tables to ensure correct lumen value. Lensing, CCT and CRI, will change the lumen output.



WRO2

#### WRO2 Delivered Lumens for Flush at 35K 80CRI

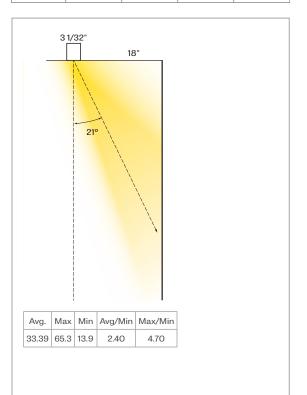
Lumens per Foot	Total Lumens Per 4FT	Input Watts	LPW
375	1500	14.5	104
500	2000	19.5	103
750	3000	28.5	105

### Multiplier - CCT/CRI

CCT (K)	Watts Multiplier		LPW Mul	LPW Multiplier	
	CRI80	CRI90	CRI80	CRI90	
2700	1.05	1.26	0.95	0.79	
3000	1.01	1.23	0.99	0.81	
3500	1.00	1.20	1.00	0.84	
4000	1.00	1.17	1.00	0.85	
5000	0.90	1.09	1.11	0.92	
6500	0.94	1.11	1.06	0.90	

#### **OPTICS**

WALLWASH REFRACTIVE OPTIC V. 2 (WRO2) - The LumenWerx Wallwash Refractive Optic V. 2 (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut off. With peak intensity at 21° above nadir, the precise WRO2 configuration creates a strong downward component without shadows or hot spots. No external shielding is required. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving high luminous efficacy of 105 lumens per watt.



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### CHROMAWERX TUNABLE WHITE AND DIM TO WARM

#### LIGHT SOURCE - LED

Custom linear array of alternating color temperature mid-flux LED's are mounted directly to the housing for optimal thermal performance. For the Duo products, a color temperature range from 2700K-6500K is achievable with color points on or below the black body curve. For the Sola products, a color temperature range from 2200K-3500K is controlled synchronously with intensity. Color consistency between fixtures is maintained to within 3SDCM. LEDs are operated at reduced drive current to optimize efficacy and lumen maintenance.

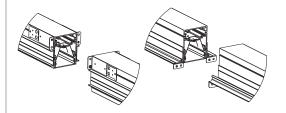
All LED's have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

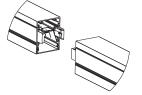
#### **LUMINAIRE LENGTH**

Via 3 is made up of standard 4, 6, 8, 10 and 12 foot sections that may be joined together to create longer continuous run lengths. Exact run length must be noted in the product code. The minimum individual section available is 4 foot, and continuous run lengths can be ordered in 2 foot 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.

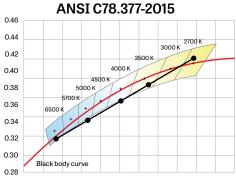
### Joining system





T-bar Mud flange Trim & Trimless

#### **CHROMAWERX-TUNABLE WHITE**



0.28 0.30 0.32 0.34 0.36 0.38 0.40 0.42 0.44 0.46 0.48 0.50

ChromaWerx Sola is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple digital or analog control sends a common signal to dual output digital drivers, which are programmed to adjust a specially populated LED array to emulate the effect of dimming a filament source. Dimming range is programmable but the default option runs from 3500K at 100% of full power to 2200K at 5% of full power. CRI is maintained above 80 throughout the dimming range.

ChromaWerx Duo is two-channel control. It uses an analog (0-10V) protocol for separate control of luminaire CCT and intensity or a digital (DMX, DALI) protocol for synchronous control of both warm and cool LED arrays to enable the user to set color temperature and light output. Commonly called "tunable white", ChromaWerx two-channel control provides the range of warm (2700K) to cool (6500K) color that can be useful for helping to entrain circadian rhythms, stimulate alertness for improved educational and work productivity, and compensate for jet lag, among other applications. The ChromaWerx drivers are programmed to limit maximum light output and power usage across all color temperatures. CRI is maintained above 80.

c Lintertek



### CHROMAWERX TUNABLE WHITE AND DIM TO WARM

#### **ELECTRICAL**

#### DMX (Duo only)

Factory-Set adjustable output current electronic driver with 120-277V AC line input. Using DMX wall controls (optionally supplied by Lumenwerx) or an existing DMX control system, both channels of LEDs are independently adjustable. Each DMX driver can be independently addressed using the built-in RDM (Remote Device Management) in the field. Dimming down to 1% is attainable. Rated life (90% survivorship) of 50,000 hours at 50°C maximum ambient temperature. At maximum driver load, efficiency<84%, PF>0.9, THD<20%.

#### Dali (Duo Only)

Factory-Set adjustable output current electronic driver with 120-277V AC line input. Using an existing DALI control system (supplied by others), one control channel adjusts the fixture color temperature, and the other control channel adjusts fixture brightness. Dimming down to 1% is attainable. Rated life (90% survivorship) of 50,000 hours at 50°C maximum ambient temperature. At maximum driver load, efficiency<84%, PF>0.9, THD<20%.

#### 0-10V (Sola)

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Using a single 0-10V control signal, the light output warms in color temperature as it dims down to 1% and 2200K. At maximum driver load, efficiency<86%, PF>0.9, THD<20%.

#### 0-10V (Duo)

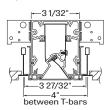
Factory-set adjustable output current LED driver with universal (120-277VAC) input. Controlled via two individual 0-10V signals, one for setting light output down to a minimum of 1% and the other for adjusting the CCT (default range of 2700K-6500K). Rated life of 50,000 hours at 70°C maximum driver case temperature and 100% load conditions. Typical efficiency of 86%, PF>0.9, THD<20% at 100% load conditions.

#### PSQ0 (Duo only)

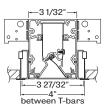
Lutron T-Series 2-Channel tunable white drivers enable high-performance human centric lighting (HCL) applications. Digital control of color temperature (CCT) and intensity are achieved when used with the ESN T-Series tunable white controller as a part of a Lutron Quatum System.

#### **MOUNTING OPTIONS**

Recess mount into exposed or concealed T-Bar or Tegular grid ceiling Via 3 is fully compatible with Armstrong Techzone  $^{\mathsf{TM}}$  & USG ceilings



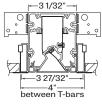
←——4"——— between T-bars

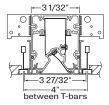


TG9 - tegular 9/16'

TG15 - tegular 15/16"

TB9 - t-bar 9/16"

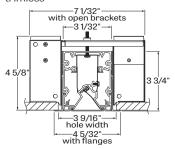


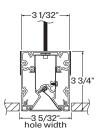


TB15 - t-bar 15/16"

ST - screw slot t-bar

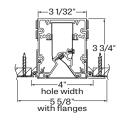
Mounting for drywall ceilings are available with visible trim, mud flange trim or





DTR - drywall trim

DTL - drywall trimless



DMF - drywall mud flange

#### **FINISH**

Interior - 95%, reflective matte powder coated white paint

Exterior - matte white or aluminum powder coating.

Custom finishes are also available.

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## CHROMAWERX TUNABLE WHITE AND DIM TO WARM

#### CONSTRUCTION

Housing - Extruded Aluminum (0.095" nominal) up to 90% Recycled Content

Interior brackets - Die formed cold rolled sheet steel 20 gauge thick

**Joining system** - Die cast Zinc (0.95" nominal) and die Formed galvanized sheet 18 gauge

Reflectors - Extruded Aluminum (0.080" nominal) thickness/Painted White.

Specular reflectors - Semi-specular anodized aluminum sheet 0.020" thickness

Lens - Extruded Clear Acrylic 0,050" nominal thickness.

**Recessed flanges** - Extruded Aluminum (0.075" nominal) up to 90% Recycled Content

Mud flange - Extruded Aluminum (0.075" nominal) up to 90% Recycled Content

Slip-through bracket - Die Formed galvanized sheet 18 gauge

End plate - Die formed cold rolled sheet steel 18 gauge thick

#### **WEIGHT**

Via 3 4ft - 11.12lbs - 5.05kg Via 3 8ft - 22.25lbs - 10.1kg Via 3 12ft - 33.48lbs - 15.2kg

#### **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 three-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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September 22, 2019



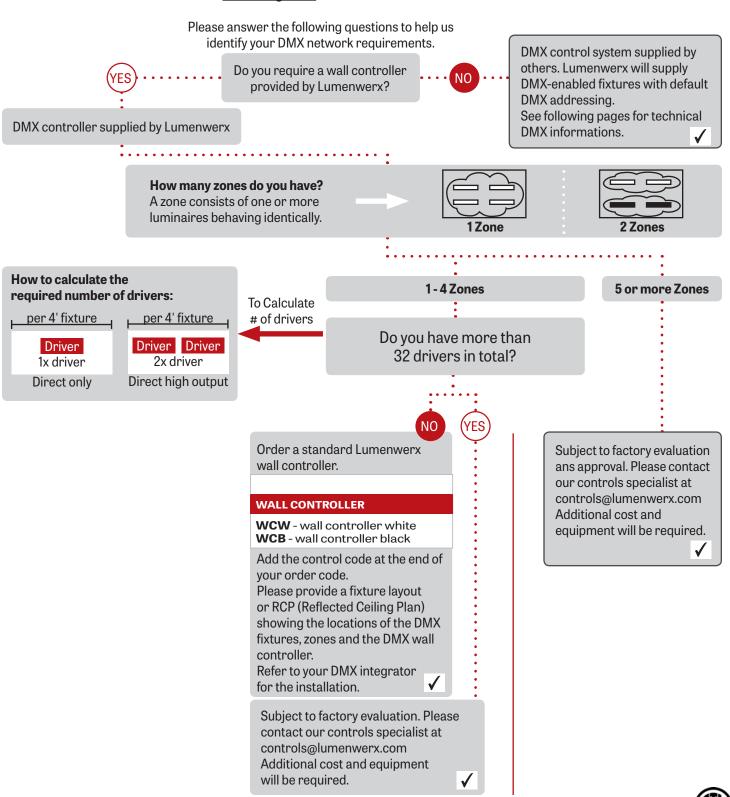
www.lumenwerx.com (T) 514-225-4304 (F) 514-931-4862 © All rights are reserved to LumenWerx ULC. LumenWerx ULC. reserves the right to change or modify product specifications without notification



### CHROMAWERX TUNABLE WHITE

**DUO DMX SPECIFICATION** 

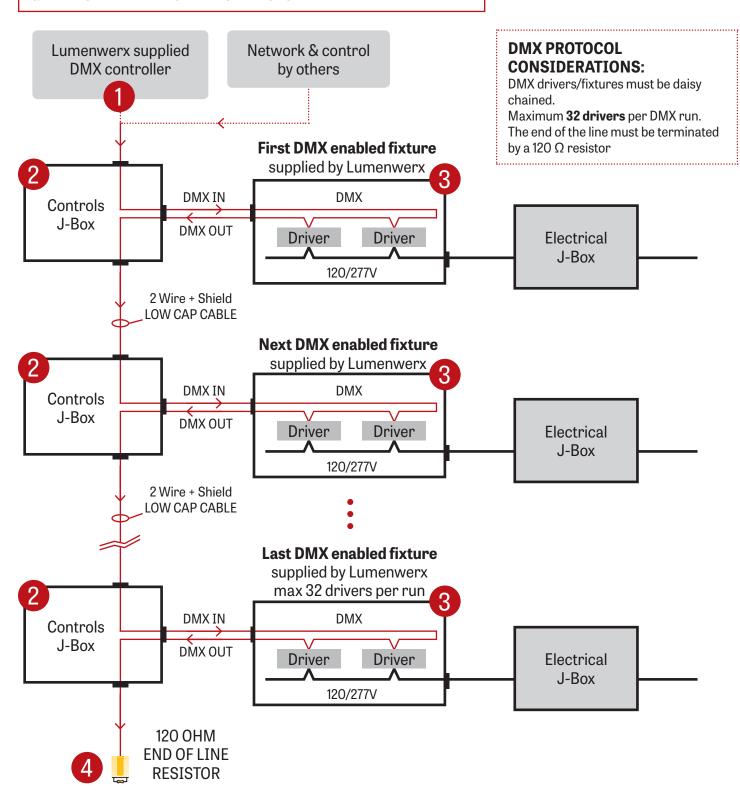
A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. When placing the PO, please provide the contact information of your DMX integrator.



c Untertek



# GENERIC DMX NETWORK ARCHITECTURE



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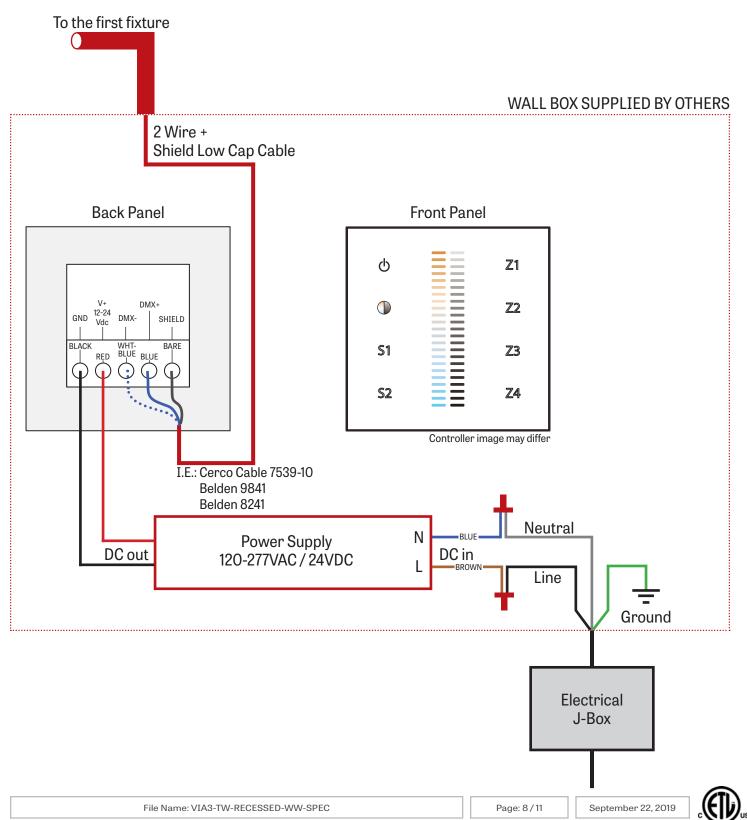
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1

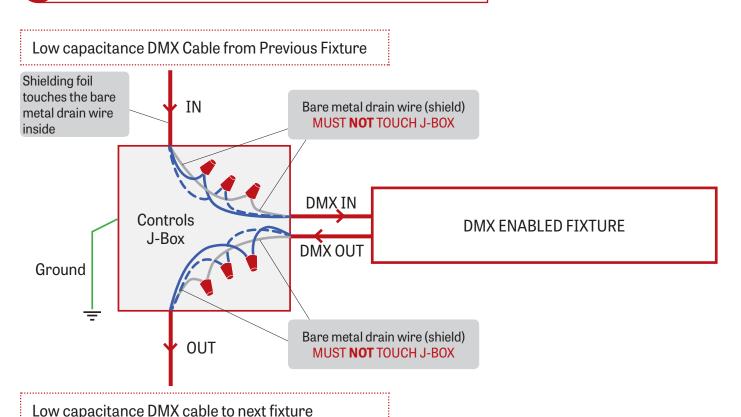
# LUMENWERX SUPPLIED DMX CONTROLLER



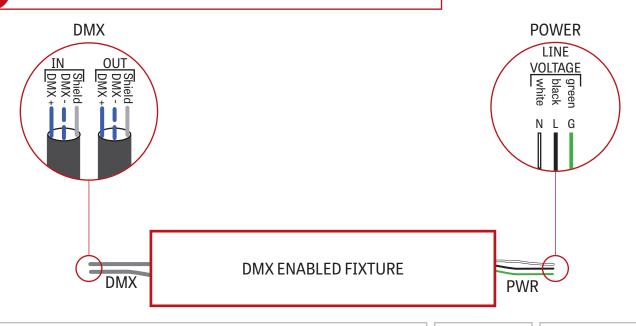


2

J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION RECESSED & SURFACE



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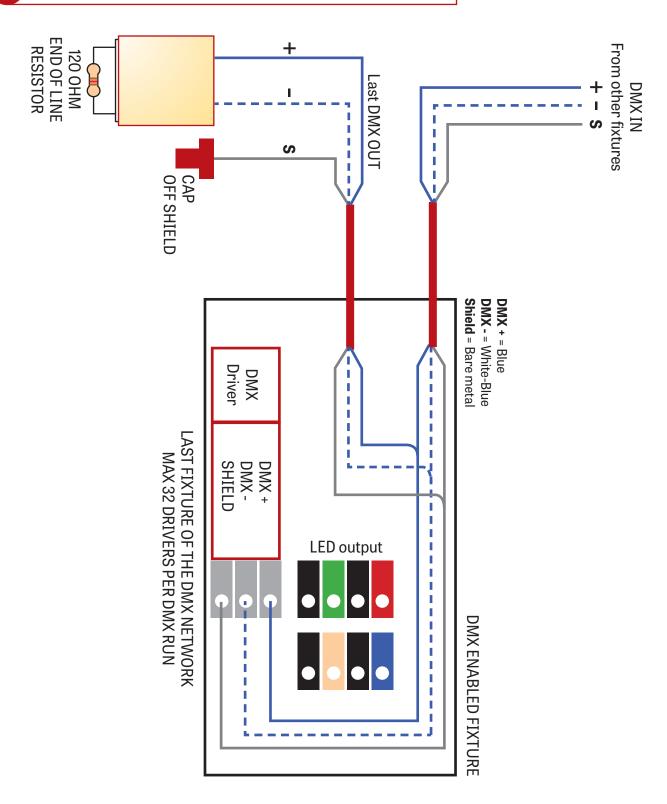
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4

DMX LAST FIXTURE DETAIL



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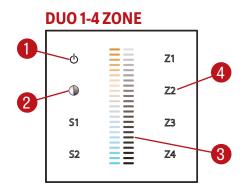






# **CHROMAWERX TUNABLE WHITE**

# DMX WALL CONTROLLER



(1) Power: Use this button to turn ON or OFF the fixture

(2) Brightness/CCT:

Use the color/brightness toggle button to chose between color/brightness. when Blue: brightness is selected, when

Yellow: color is selected.

(3) Slider: Depending on the mode chosen in 2, the slider will allow the

user to set desired color or brightness.

(4) Zone select: Up to 4 zones can be selected either independently or together.

Once selected the commands will be sent to the zone identified

by a Blue LED.

### **Default DMX Addresses:**

1Warm 2 Cool

