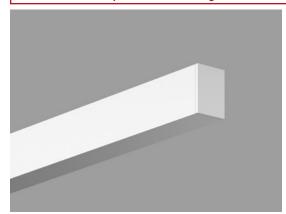


# CHROMAWERX TUNABLE WHITE AND DIM TO WARM

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



#### **DESCRIPTION**

Via 2 is the elegant and flexible linear LED luminaire system for pendant, surface, and recessed or in-wall installation, whether as discrete luminaires, continuous runs, or patterns. Via 2 features numerous optical configurations, which are difficult to achieve in luminaires.

Via 2 is an ideal vehicle for ChromaWerx white tuning in education, office, and healthcare applications where modular luminaires are used.

PROJECT:	
TYPE: NOTES:	





#### ORDER GUIDE

# up to 131 lm/w performance

VIA2WI	HLO	LED			
LUMINAIRE ID	INDIRECT OPTICS	LIGHT SOURCE	CRI	INDIRECT LUMEN PACKAGES	CHROMAWERX
VIA2WI - via 2" wall indirect	<b>HLO</b> - High-Efficiency Lambertian Optic	<b>LED</b> - high performance LED	<b>80</b> - 80CRI <b>90</b> - 90CRI	<b>350</b> - min. low output 350lm/ft <b>500</b> - max. medium output 500lm/ft	<b>DUO</b> - tunable white 2 channel control 27k to 65k
				#### - other required lm/ft	SOLA - dim to warm single
					channel control 22k to 35k

			1	DMB
LUMINAIRE LENGTH	VOLTAGE	DRIVER	ELECTRICAL	MOUNTING
Available sections - 4', 6', 8', 10' & 12'	<b>120</b> - 120V	DMX - to specify see pages 5 to 10	1-1 circuit	DMB - drywall mounting bracket
#FT - nominal length in feet	<b>277</b> - 277V	DA - Dali (duo only) local on-site commissioning is		
(2' increments only)		required		
Continuous Run - for luminaires over 12'		0-10 - Single 0-10V input (Sola) or dual 0-10V input		
Minimum Individual section 4'		for CCT/Intensity (Duo)		
		<b>PSQ0</b> - Lutron T-Series 1% Tunable White (Duo only)		

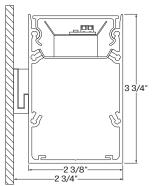
See page 2 for ordering code detailed information

FINISH	OPTIONS
<b>W</b> - matte white	FU - fuse
AL - aluminum	CU - custom
<b>B</b> - matte black	
CF# - custom finish specify RAL#	

# DMX WALL CONTROLS

To specify see pages 5 to 10

#### **CROSS SECTION**



VIA2WI - wall

File Name: VIA2-TW-WALL-INDIRECT-SPEC

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October 13, 2019



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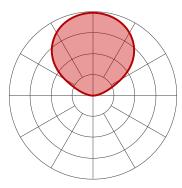




### CHROMAWERX TUNABLE WHITE AND DIM TO WARM

#### **PHOTOMETRICS**

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



HLO

#### **HLO Indirect Delivered Lumens at 35K 80CRI**

Lumens per Foot	s per Foot Total Lumens Per 4FT		LPW
350	1400	10.5	131
500	2000	15.5	131

#### Multiplier - CCT/CRI

CCT (K)	Watts Multiplier		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**

**High Efficiency Lambertian Optic (HLO)** shielding of diffusing 0.075" thick acrylic provides up to 88% transmission and good source obscuration. Matte white reflectors distribute LED output across the shielding. Luminaire brightness is controlled by the ratio of luminous flux to shielding area. HLO optics have a Spacing Criteria of 1.06.

#### LIGHT SOURCE - LED

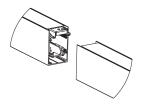
Custom linear array of mid-flux LED's are cartridge-mounted with quick-connect wiring to facilitate service and thermal management. Available in 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operate at reduced drive current to optimize efficacy and lumen maintenance.

All 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.

#### **LUMINAIRE LENGTH**

Via 2 is made up of standard 2, 3, 4, 5, 8 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 2 foot.

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 for Via 2 Indirect

File Name: VIA2-TW-WALL-INDIRECT-SPEC

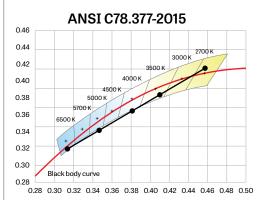
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### CHROMAWERX TUNABLE WHITE AND DIM TO WARM

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



**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.

### **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**

Fixtures may be horizontally mounted to the wall using a bracket. For long runs, a minimum of 6" from adjacent walls is required.

#### **FINISH**

**Interior** - 95%, reflective matte powder coated white paint

**Exterior** - matte white, matte black or aluminum powder coating.

Custom finishes are also available.

#### CONSTRUCTION

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

**Interior brackets** - Die formed cold rolled sheet steel 18 gauge thick

Joining system - Die cast Zinc (0.95" nominal)
Reflectors - Extruded Aluminum (0.075" nominal) up
to 95% reflective matte

End caps - Die cast Aluminum (0.95" nominal)

File Name: VIA2-TW-WALL-INDIRECT-SPEC

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# CHROMAWERX TUNABLE WHITE AND DIM TO WARM

#### **WEIGHT**

Via 2 4ft - 9.03lbs - 4.1kg Via 28ft - 18.28lbs - 8.3kg Via 212ft - 27.97lbs - 12.7kg

#### **CERTIFICATIONS**

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

#### 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.

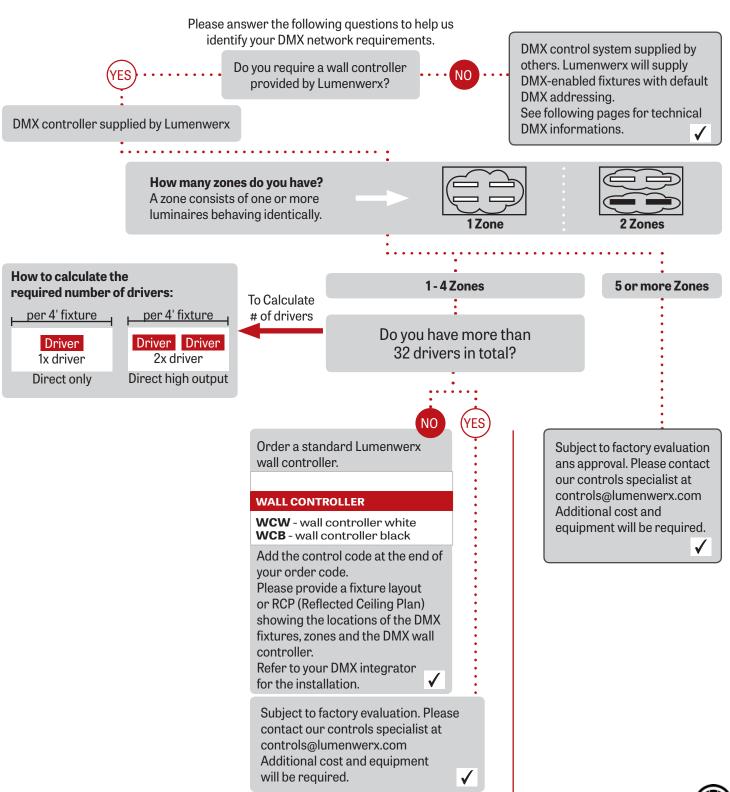
Wall controllers are covered by the manufacturer warranty.



### **CHROMAWERX TUNABLE WHITE**

**DUO DMX SPECIFICATION** 

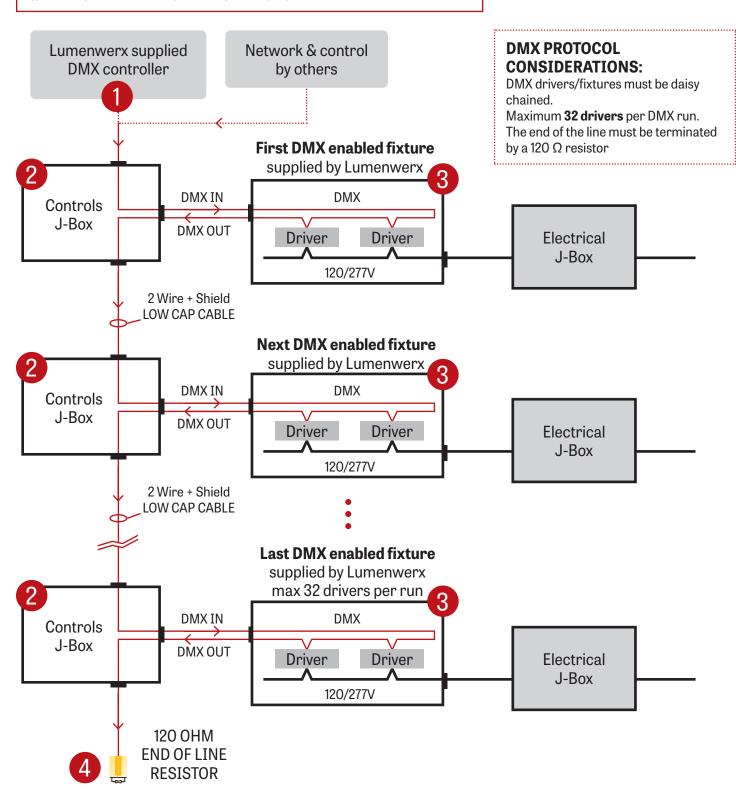
A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. When placing the PO, please provide the contact information of your DMX integrator.



c Untertek



# GENERIC DMX NETWORK ARCHITECTURE



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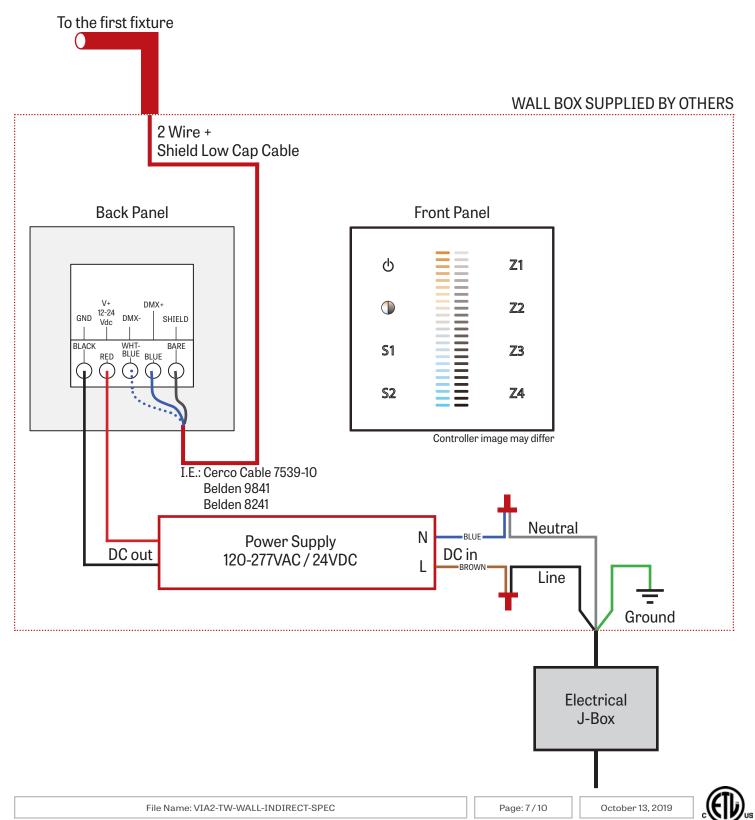
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1

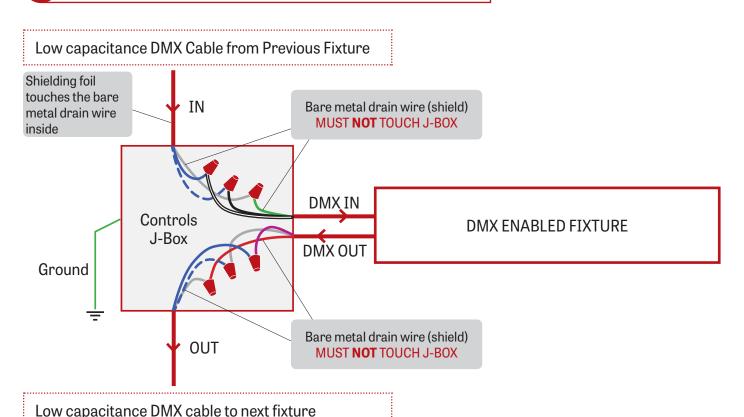
# LUMENWERX SUPPLIED DMX CONTROLLER



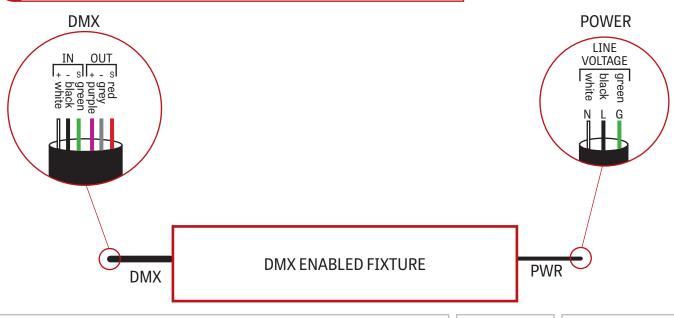


2

J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION PENDANT & WALL



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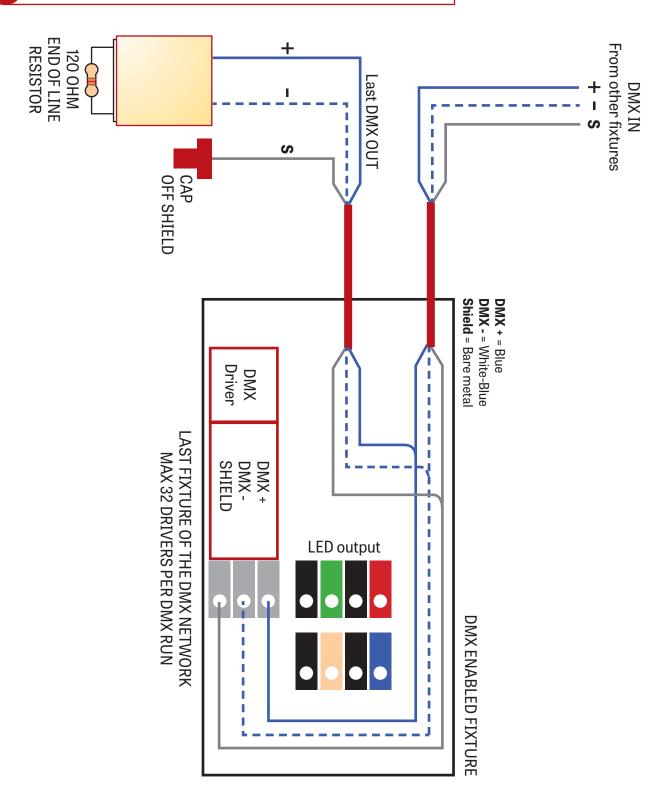
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4

DMX LAST FIXTURE DETAIL



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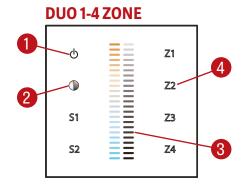






# **CHROMAWERX TUNABLE WHITE**

# 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

