VIA 4 LED

RECESSED VERTICAL



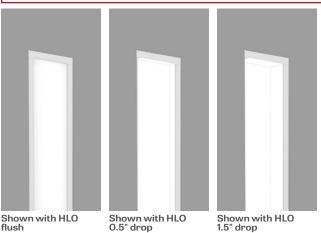
PROJECT:

TYPE:

NOTES:

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 4 is the flexible linear

LED luminaire system for pendant, surface and recessed or in-wall installation. whether as discrete luminaires,

continuous runs or patterns. Via 4 features numerous high-efficiency optical configurations,

including separately controlled indirect/direct, wall wash and asymmetric distributions, as well as a wide range of electrical, control and trim options. Via 4 is an ideal vehicle for ChromaWerx white tuning in education, office, and

healthcare applications where modular luminaires are used.

up to 103 lm/w performance

IC RATED

DMX WALL CONTROLS To specify see pages 5 to 10

ORDER GUIDE

flush

VIA4RV	HLO		LED		
LUMINAIRE ID	OPTICS	LENS POSITION	LIGHT SOURCE	CRI	LUMEN PACKAGES
VIA4RV - via 4" recessed vertical	HLO - High-Efficiency Lambertian Optic	FH - Flush	LED - high	80 - 80CRI	500 - min. low output 500lm/ft
		0.5D - 0.5" drop	performance LED	90 - 90CRI	750 - medium output 750lm/ft
		1.5D - 1.5" drop			1000 - high output 1000lm/ft
					1200 - max. ultra high output 1200lm/ft
					#### - other required Im/ft

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

MOUNTING	FINISH	OPTIONS
DTR - drywall trim	W - matte white	FU - fuse
DTL - drywall trimless	CF# - custom finish specify RAL#	FWC - flexible whip cable (6' std)
DMF - drywall mud flange		CP - Chicago Plenum
		CU - custom

See page 2 for ordering code detailed information

CROSS SECTION 5 5/32" 4 9/16 with hole flanges width 5 5/32" 4 9/16 with hole flanges width 5 5/32" 4 9/16' with hole flanges width 4 1/32 4 1/32' 41/32 3/4 -11/2"-1/2 3 3/4 3 3/4 VIA4RV - HLO-FH VIA4RV - HLO-0.5D VIA4RV - HLO-1.5D File Name: VIA4-TW-RECESSED-VERTICAL-SPEC Page: 1/10 September 20, 2019

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VIA 4 LED



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PHOTOMETRICS

Lumens per Foot

500 750

1000

1200

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

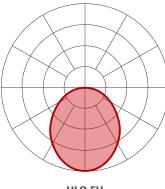
Input Watts

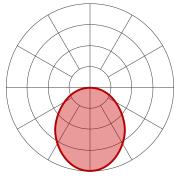
20

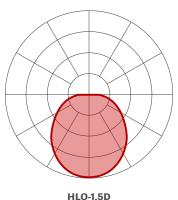
29

39

47.5







HLO-FH

HLO-FH Delivered Lumens for Flush at 35K 80CRI

2000

3000

4000

4800

Total Lumens Per 4FT

HLO-0.5D

LPW

101

103

102

101

Multiplier - Drop Lens

Direct lens	Watts Multiplier	LPW Multiplier	
Flush lens	1.00	1.00	
Drop lens 0.5"	0.98	1.02	
Drop lens 1.5"	0.96	1.05	

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 is available as a flush diffuser or as a drop diffuser, extending 0.5" or 1.5" below the luminaire housing. Drop diffusers are extruded with glued end caps. HLO optics have a Spacing Criteria of 1.16.

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.

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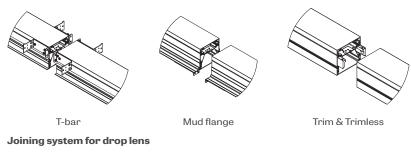
CHROMAWERX TUNABLE WHITE AND DIM TO WARM

LUMINAIRE LENGTH

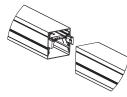
Via 4 is made up of standard 4, 6, 8, 10 and 12 foot sections that may be joined together to create longer continuous run lengths. Exact run length must be noted in the product code. The minimum individual section available is 4 foot, and continuous run lengths can be ordered in 2 foot increments.

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

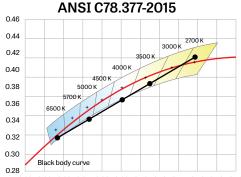


Mud flange T-bar



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.

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%.

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CHROMAWERX TUNABLE WHITE AND DIM TO WARM

<u>0-10V (Duo)</u>

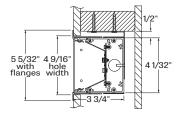
Factory-set adjustable output current LED driver with universal (120-277VAC) input. Controlled via two individual 0-10V signals, one for setting light output down to a minimum of 1% and the other for adjusting the CCT (default range of 2700K-6500K). Rated life of 50,000 hours at 70°C maximum driver case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

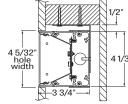
PSQ0 (Duo only)

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

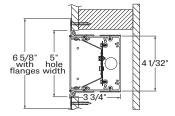
Recessed Wall Mounting for drywall is available with visible trim, mud flange, trim or trimless





DTR - drywall trim

DTL - drywall trimless



DMF - drywall mud flange

FINISH

Interior - 95%, reflective matte powder coated white paint **Exterior** - matte white 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) and die Formed galvanized sheet 18 gauge

Reflectors - Cold rolled steel 0.024" thick precisely die formed, 95% reflective matte white painted

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 4 4ft - 11.23lbs - 5.1kg Via 4 8ft - 22.47lbs - 10.2kg Via 4 12ft - 33.70lbs - 15.3kg

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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JMENWE VIA 4 LED RECESSED VERTICAL WWW.LUMENWERX.CO CHROMAWERX TUNABLE WHITE A gualified DMX integrator is required to assure proper installation and commissioning of **DUO DMX SPECIFICATION** the DMX network. When placing the PO, please provide the contact information of your DMX integrator. Please answer the following questions to help us identify your DMX network requirements. DMX control system supplied by others. Lumenwerx will supply Do you require a wall controller NO DMX-enabled fixtures with default provided by Lumenwerx? DMX addressing. See following pages for technical DMX controller supplied by Lumenwerx DMX informations. \checkmark How many zones do you have? A zone consists of one or more luminaires behaving identically. 7 Oneg How to calculate the 1-4Zones **5 or more Zones** required number of drivers: To Calculate per 4' fixture per 4' fixture # of drivers Do you have more than Driver Driver Driver 1x driver 2x driver

Direct high output

Direct only

32 drivers in total?

Subject to factory evaluation ans approval. Please contact our controls specialist at controls@lumenwerx.com Additional cost and equipment will be required.

controller. Refer to your DMX integrator 1 for the installation. Subject to factory evaluation. Please contact our controls specialist at controls@lumenwerx.com Additional cost and equipment will be required. \checkmark September 20, 2019 Page: 5 / 10 File Name: VIA4-TW-RECESSED-VERTICAL-SPEC

Order a standard Lumenwerx

WCW - wall controller white

Please provide a fixture layout or RCP (Reflected Ceiling Plan) showing the locations of the DMX fixtures, zones and the DMX wall

WCB - wall controller black Add the control code at the end of

wall controller.

WALL CONTROLLER

your order code.

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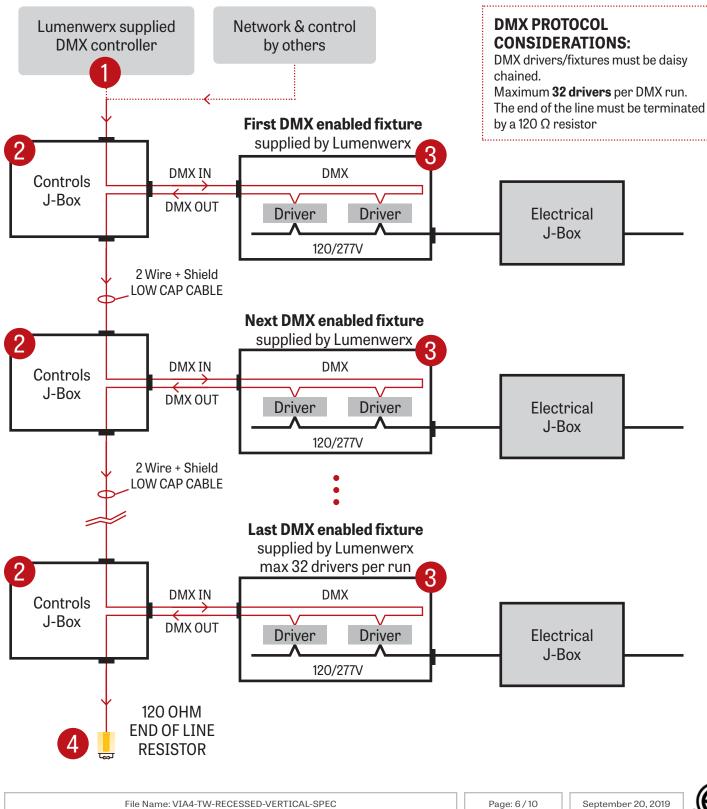






CHROMAWERX TUNABLE WHITE

GENERIC DMX NETWORK ARCHITECTURE



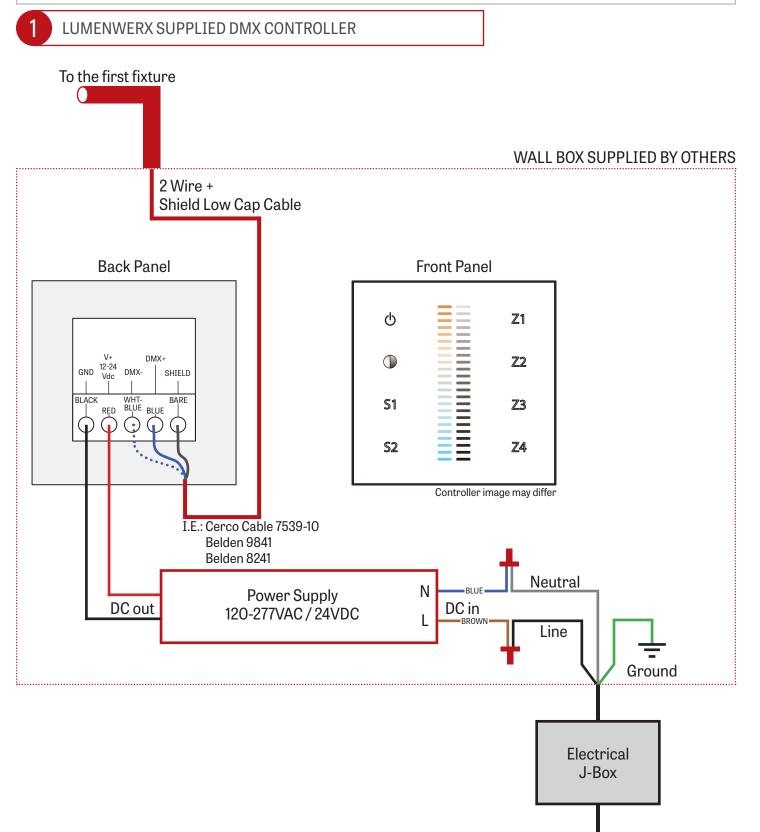
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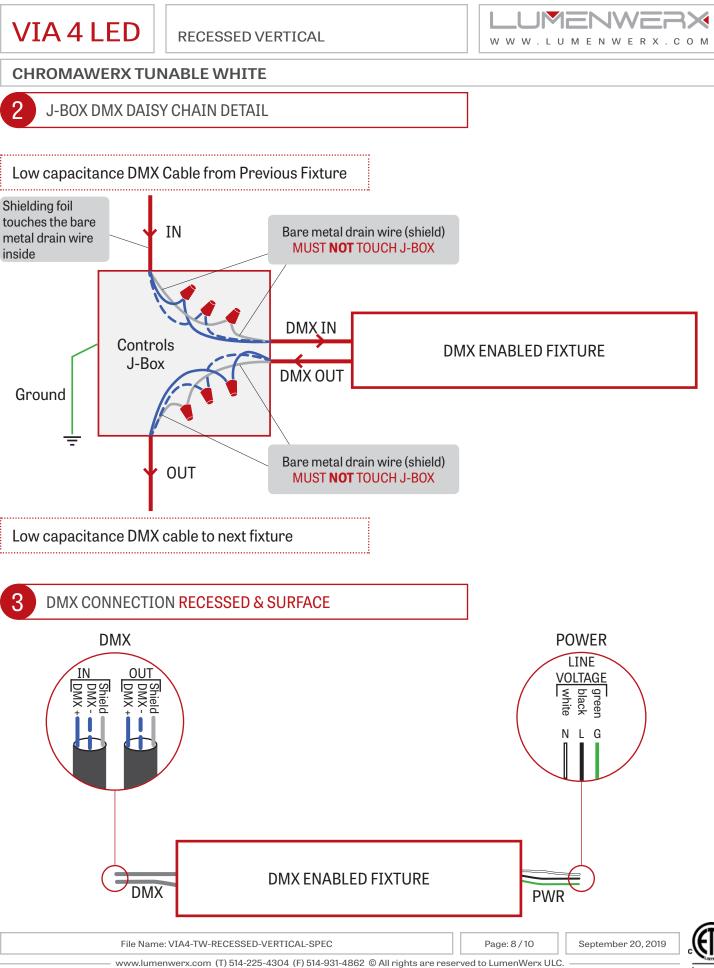


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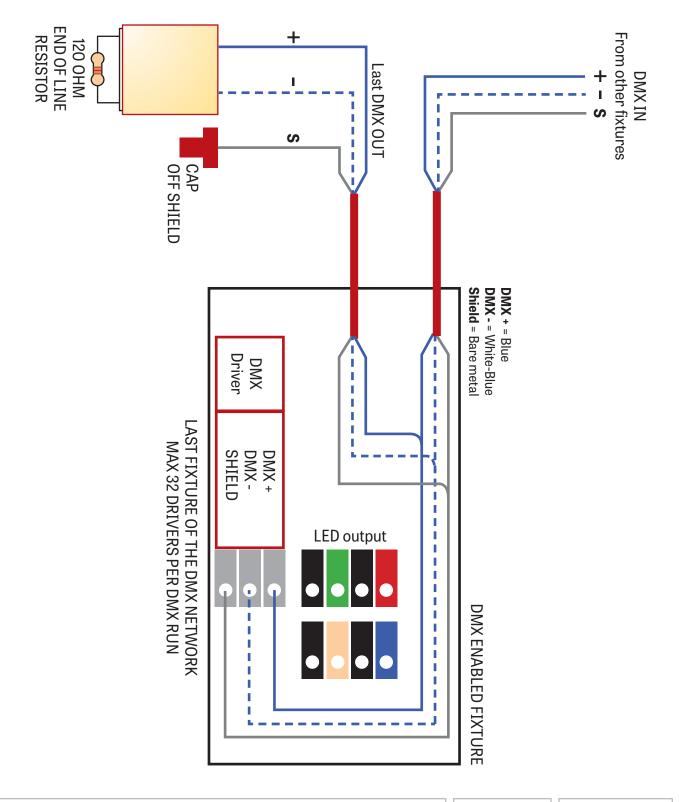


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CHROMAWERX TUNABLE WHITE

DMX LAST FIXTURE DETAIL



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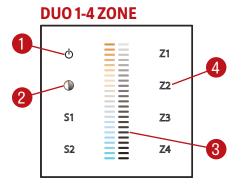
(3) Slider:

(4) Zone select:



CHROMAWERX TUNABLE WHITE

DMX WALL CONTROLLER



(1) Power: Use this button to turn ON or OFF the fixture Use the color/brightness toggle button to chose between color/brightness. when Blue: brightness is selected, when (2) Brightness/CCT: Yellow: color is selected.

> Depending on the mode chosen in 2, the slider will allow the user to set desired color or brightness.

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

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