VIA 1.5 LED

PENDANT DIRECT/INDIRECT



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





Shown with HLO 1.5" drop

DESCRIPTION

Efficient and flexible, the Via 1.5 Direct/Indirect pendant features numerous optical configurations including flush and drop diffusers. Via 1.5 Direct/Indirect can be installed as discrete luminaires, continuous runs, and patterns, with a wide range of lumen packages, color choices, and electrical and controls options. Via 1.5 is an ideal vehicle for ChromaWerx white tuning in education, office, and healthcare applications where modular luminaires are used.

PROJECT:	
TYPE: NOTES:	



Shown with HLO flush

ORDER GUIDE

Shown with HLO Shown v 0.5" drop 1.5" drop

VIA1.5PDI	HLO		CLO	LED		
LUMINAIRE ID	DIRECT OPTICS	LENS POSITION	INDIRECT OPTICS	LIGHT SOURCE	CRI	DIRECT LUMEN PACKAGES
VIA1.5PDI - via 1.5" pendant direct/indirect	HLO - High-Efficiency Lambertian Optic	FH - Flush 0.5D - 0.5" drop 1.5D - 1.5" drop	CLO - Clear Lambertian Optic	LED - high performance LED	80 - 80CRI 90 - 90CRI	 350 - min. low output 350lm/ft 500 - medium output 500lm/ft 750 - max. high output 750lm/ft #### - other required lm/ft

INDIRECT LUMEN PACKAGES	CHROMAWERX	LUMINAIRE LENGTH	VOLTAGE	DRIVER
350 - min. low output 350lm/ft	DUO - tunable white 2	Available sections - 4', 6', 8', 10' & 12'	120 - 120V	DMX - to specify see pages 5 to 10
500 - max. medium output 500lm/ft	channel control 27k to 65k	#FT - nominal length in feet	277 - 277V	DA - Dali (duo only) local on-site commissioning is
#### - other required Im/ft	SOLA - dim to warm single	(2' increments only)		required
	channel control 22k to 35k	Continuous Run - for luminaires over 12'		0-10 - Single 0-10V input (Sola) or dual 0-10V input for
		Minimum Individual section 4'		CCT/Intensity (Duo)
				PSOO - Lutron T-Series 1% Tunable White (Duo only)

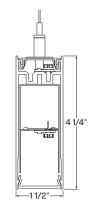
1	53WAC36	
ELECTRICAL	MOUNTING	
1-1 circuit	53WAC36 - power 5" + non power 3" white canopy (36" air craft cable) For all other options refer to our Pendant Mounting Guide	

FINISH	OPTIONS
W - matte white	FU - fuse
AL - aluminum	TB# - T-bar caddy clip specify grid size
B - matte black	TG# - Tegular caddy clip specify grid size
CF# - custom finish	ST - Screw Slots caddy clip
specify RAL#	CU - custom

DMX WALL CONTROLS

To specify see pages 5 to 10

CROSS SECTION





See page 2 for ordering code detailed information

VIA1.5PDI - HLO-FH VIA1.5PDI - HLO-0.5D VIA1.5PDI - HLO-1.5D

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60

-11/2"-

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1/2

February 3, 2020

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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.

Total Lumens

Per 4FT

2800

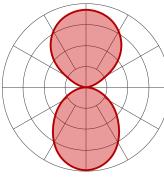
3400

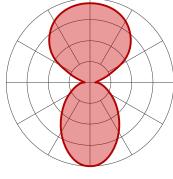
3400

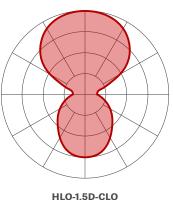
4000

4400

5000







HLO-FH-CLO

Direct

1400

1400

2000

2000

3000

3000

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

Indirect

1400

2000

1400

2000

1400

2000

HLO-0.5D-CLO

LPW

84

84

83

84

80

81

Input

Watts 33.5

40.5

41

47.5

55

61.5

Multiplier - Drop Lens

Direct lens	Watts Multiplier	LPW Multiplier
Flush lens	1.00	1.00
Drop lens 0.5"	0.89	1.12
Drop lens 1.5"	0.88	1.14

Multiplier - CCT/CRI

CCT (K)	Watts Multiplier		LPW Mult	iplier
	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

DIRECT OPTICS

Lumen Package

350+350

350+500

500+350

500+500

750+350

750+500

(Direct + Indirect)

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 1.12.

INDIRECT OPTICS

The **Clear Lambertian Optic (CLO)** uses a single horizontal LED array and a clear acrylic cover to provide simple uplight with high efficiency.

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 1.5 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.

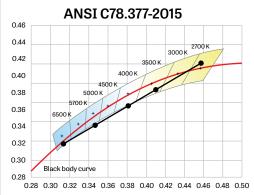
Joining system



Via 1.5 direct/indirect

Via 1.5 direct/indirect with drop lens

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%.

<u>Dali (Duo Only)</u>

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%.

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

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%.

<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.

PSQO (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.

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CHROMAWERX TUNABLE WHITE AND DIM TO WARM

MOUNTING OPTIONS

Fixtures can be pendant-mounted, using aircraft cables. Unless otherwise specified, LumenWerx provides the following hardware: For cable-mounted fixtures - 53WAC36 (5" white canopy for all power mounting point, 3" white canopy for non power mounting point, and a 36" cable) Caddy clips, if required specify under OPTIONS For all other options, see our website for a detailed Pendant Mounting Guide

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 - Cold rolled steel 0.024" thick precisely die formed, 95% reflective matte white painted
End caps - Die cast Aluminum (0.95" nominal)
Hanger - Chromed Griplock securely attached with spring steel hardware in end caps and/or joiners
Air craft cable suspension - 7x7 braids Aluminum air craft cable 0.06" thick

WEIGHT

Via 1.5 4ft - 8.26lbs - 3.75kg Via 1.5 8ft - 16.52lbs - 7.5kg Via 1.5 12ft - 24.78lbs - 11.25kg

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.



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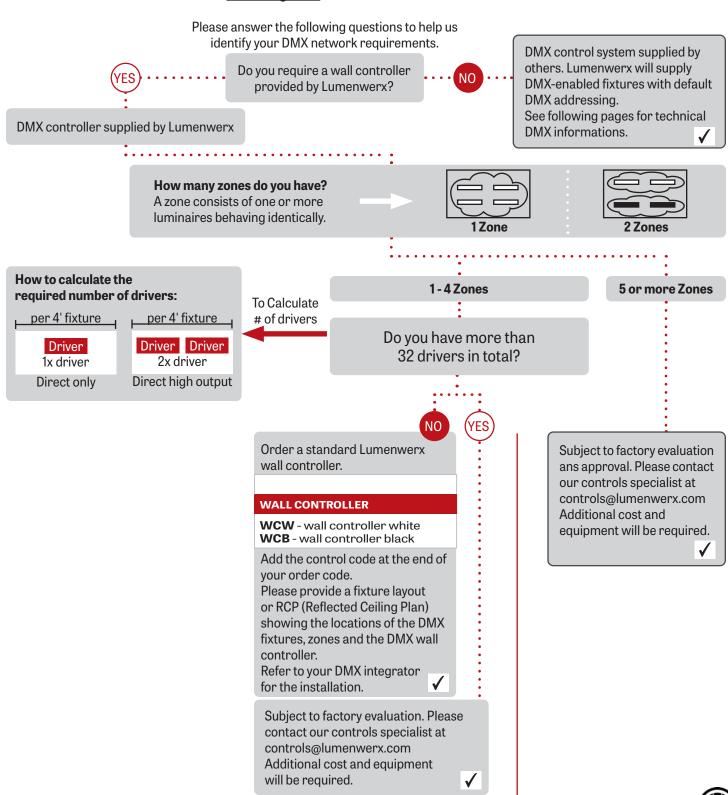








A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. When placing the PO, please provide the <u>contact information of your</u> <u>DMX integrator</u>.



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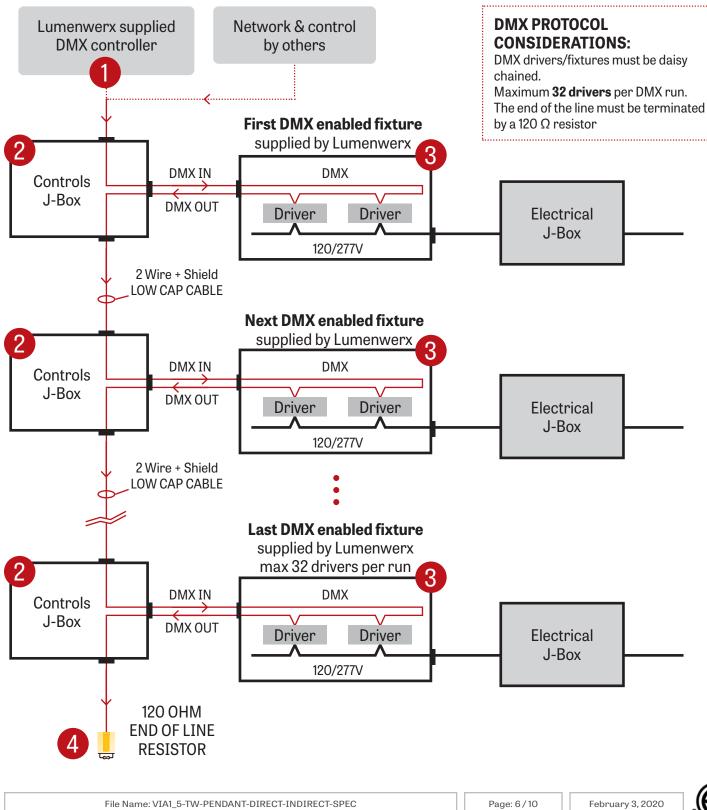
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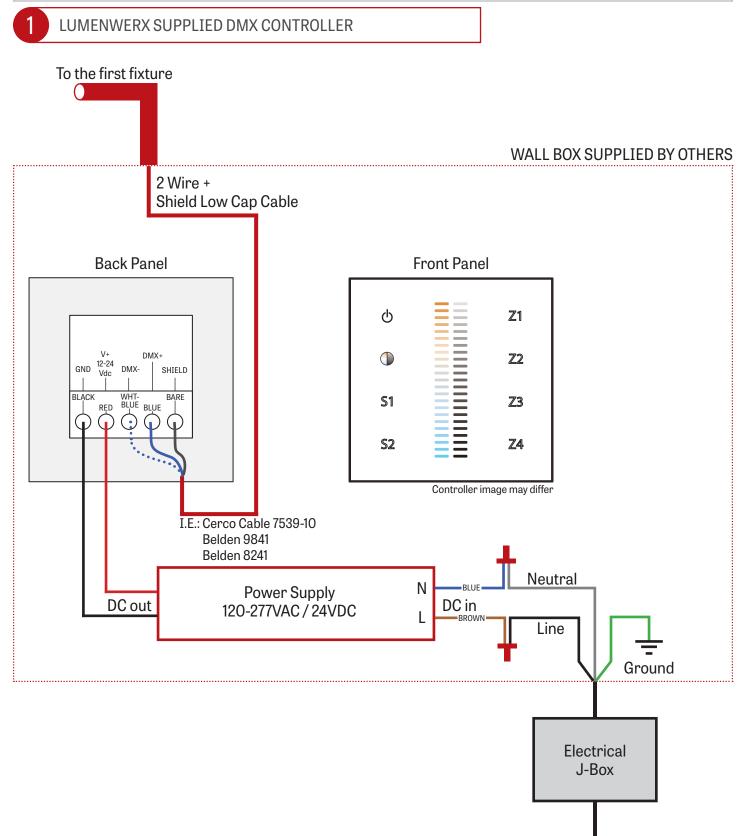
GENERIC DMX NETWORK ARCHITECTURE













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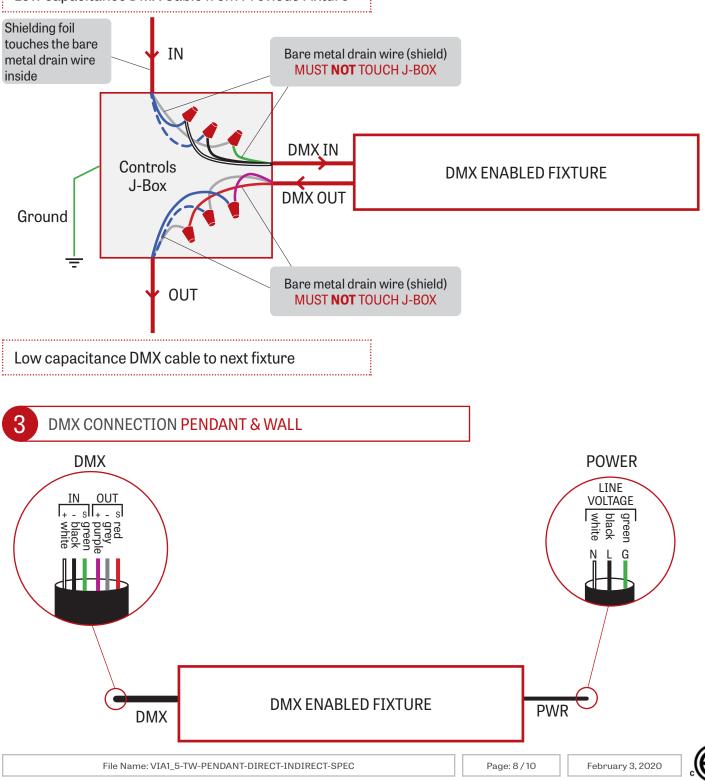
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CHROMAWERX TUNABLE WHITE

J-BOX DMX DAISY CHAIN DETAIL

Low capacitance DMX Cable from Previous Fixture





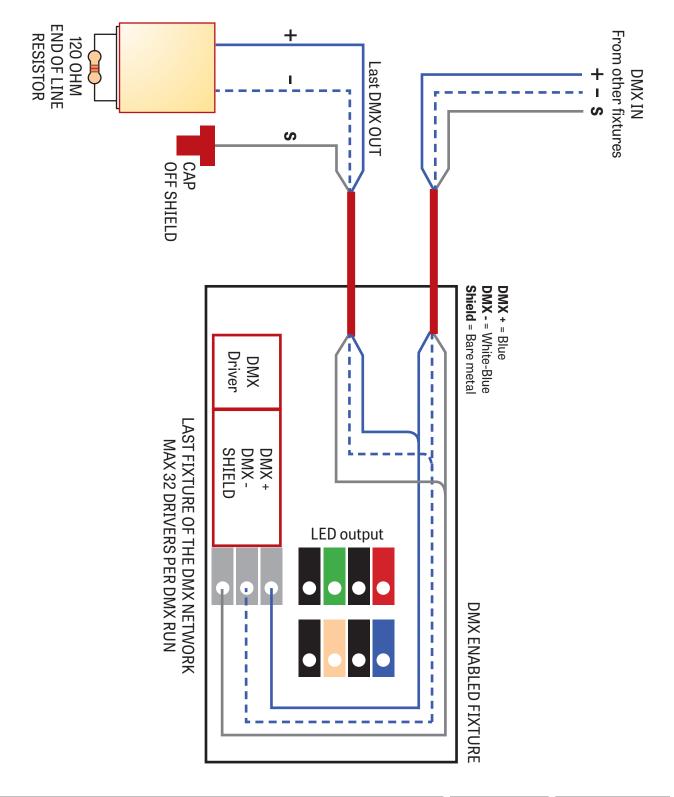


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CHROMAWERX TUNABLE WHITE

DMX LAST FIXTURE DETAIL



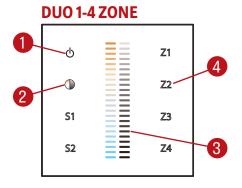
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DMX WALL CONTROLLER



(1) Power:

(2) Brightness/CCT:	Use the color/brightness toggle button to choose between color/brightness. When Blue: brightness is selected, when Yellow: color is selected.
(3) Slider:	Depending on the mode chosen in step 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.

Use this button to turn ON or OFF the fixture.

Default DMX Addresses: 1 Warm 2 Cool

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