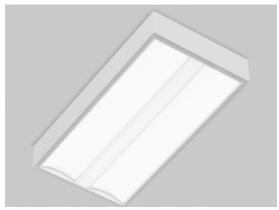


CHROMAWERX TUNABLE WHITE AND DIM TO WARM

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



Shown with MTO and HLO optics

DESCRIPTION

Vega is an efficient architectural LED troffer with a distinctive luminous shielding that features a median textured optic. Using advanced LED engines, Vega provides highly efficient illumination and offers

APPROVED BY:	
SIGNATURE:	

PROJECT:

comprehensive ceiling, electrical, and controls options in 2x2, 1x4, and 2x4 sizes. Vega is an ideal vehicle for ChromaWerx white tuning in education, office, and healthcare applications where modular luminaires are used. See separate spec sheets for other available mountings.

ORDER GUIDE

up to 116 lm/w performance

VEGS	24	мто	HLO	LED			
LUMINAIRE ID	SIZE	CENTER OPTICS	SIDE OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	CHROMAWERX
VEGS - vega	24 - 2'x4'	MTO - Median	HLO - High-	LED - high	80 - 80CRI	4000 - min.low output 4000lm	DUO - tunable white 2 channel
surface		Textured Optic	Efficiency	performance LED	90 - 90CRI	5500 - medium output 5500lm	control 27k to 65k
			Lambertian Optic			6800 - max. high output 6800lm	SOLA - dim to warm single
						#### - other required Im	channel control 22k to 35k

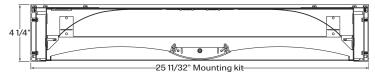
		1	SUR		
VOLTAGE	DRIVER	ELECTRICAL	MOUNTING	FINISH	OPTIONS
120 - 120V	DMX - to specify see pages 5 to 10	1-1 circuit	SUR - surface	W - matte white	FU - fuse
277 - 277V	DA - Dali (duo only) local on-site		mount kit	CF# - custom finish	CU - custom
	commissioning is required			specify RAL#	
	0-10 - Single 0-10V input (Sola) or dual				
	0-10V input for CCT/Intensity (Duo)				
	PSQ0 - Lutron T-Series 1% Tunable White				

DMX WALL CONTROLS

To specify see pages 5 to 10

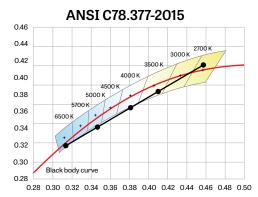
See page 2 for ordering code detailed information

CROSS SECTION



SUR - surface mount kit





File Name: VEGA-24-TW-SURFACE-SPEC

Page: 1 / 11

August 6, 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

VEGA 2x4 LED

SURFACE



CHROMAWERX TUNABLE WHITE AND DIM TO WARM

OPTICS

CENTER LENS - MEDIAN TEXTURED OPTIC (MTO) - Median Textured Optic (MTO) shielding consisting of ribbed diffusing center element.

SIDE LENS - HIGH EFFICIENCY LAMBERTIAN OPTIC (HLO) - Curved sides of diffusing 0.075" thick acrylic with 90% transmission and good source obscuration. Luminaire brightness is controlled by the flux-to-shielding area ratio in addition to offering a gentle gradient from center to edge.

LIGHT SOURCE - LED

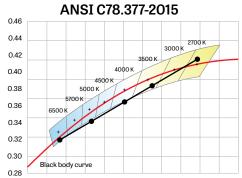
LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	4000K	35	4000	116
medium output	4000K	48	5500	115
high output	4000K	60	6800	113

Lumen Adjustment Factors		
2700K	0.917	
3000K	0.959	
3500K	0.988	
4000K	1.000	
6500K	1.053	

Custom 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.

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 Ustreo Us

File Name: VEGA-24-TW-SURFACE-SPEC

Page: 2 / 11

SURFACE



CHROMAWERX TUNABLE WHITE AND DIM TO WARM

ELECTRICAL

DMX (Duo only)

Factory-set, adjustable output current, multi-channel LED driver with universal (120-277VAC) input. Using DMX wall controls (optionally supplied by LumenWerx) or an existing DMX control system, two channels of LEDs (warm-white & cool-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%.

Dali (Duo Only)

Factory-set, adjustable output current LED driver with universal (120-277VAC) 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 range from 100%-0%. At maximum driver load, efficiency<86%, PF>0.9, THD<20%.

0-10V (Sola)

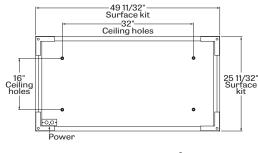
Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Using a single 0-10V control signal, the light output warms in color temperature as it dims down to 1% and 2200K. At maximum driver load, efficiency < 86%, PF > 0.9, THD<20%.

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.

MOUNTING OPTIONS

A separate kit for mounting fixtures directly to the ceiling surface. Kit is compatible with T-Bar, hard surface and drywall ceilings.





SUR - surface mount 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.

Surface kit - Extruded Aluminum 0.07" nominal, matte white or aluminum powder coating. Custom finishes are also available.

WEIGHT

Vega 2x4 - 27.53 lbs.+8.26lbs. - 12.5kg+3.75 kg



SURFACE



CHROMAWERX TUNABLE WHITE AND DIM TO WARM

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.



File Name: VEGA-24-TW-SURFACE-SPEC

Page: 4 / 11

VEGA 2x4 LED

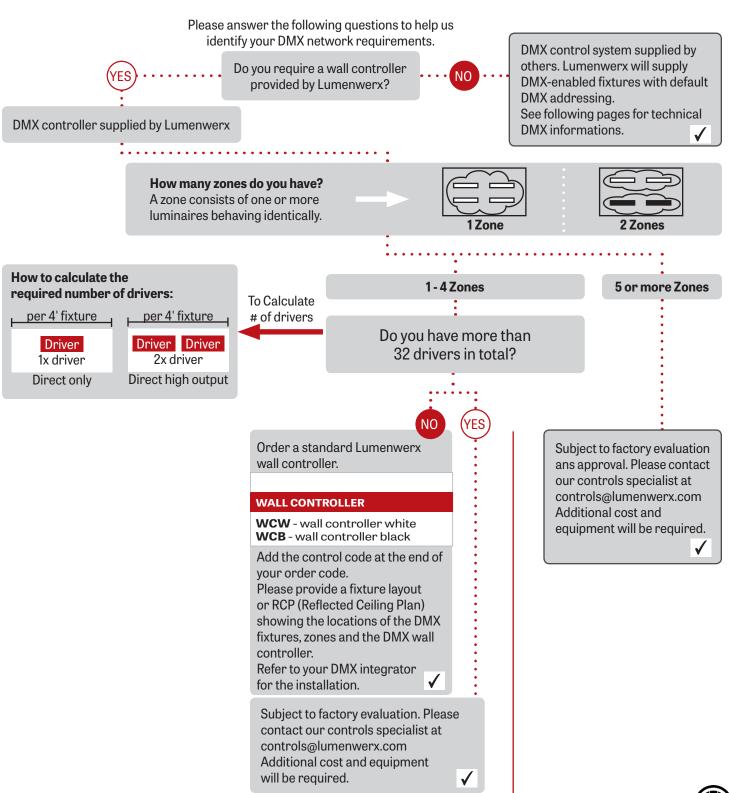
SURFACE



CHROMAWERX TUNABLE WHITE

DUO DMX SPECIFICATION

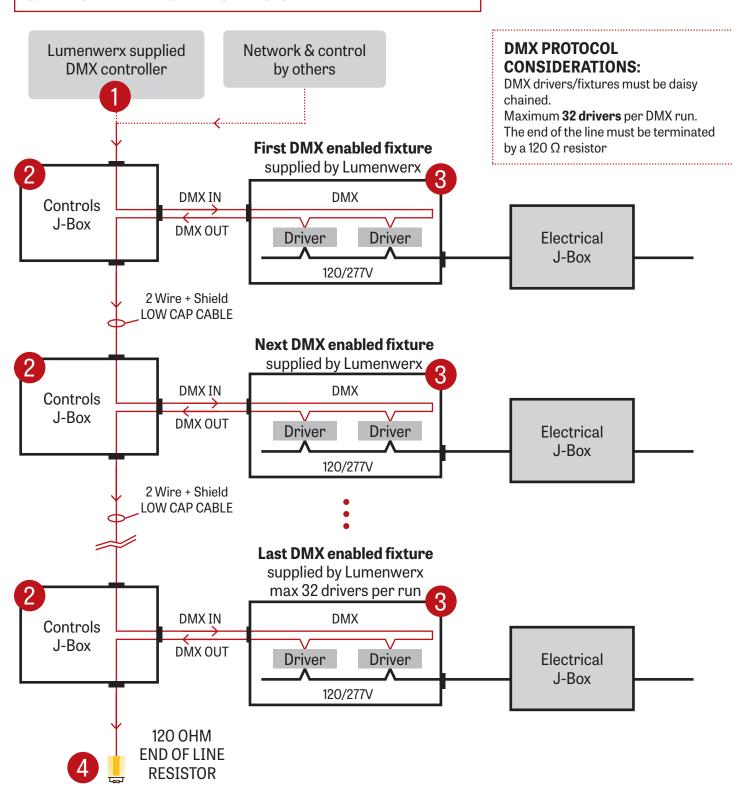
A qualified DMX integrator is required to assure proper installation and commissioning of the DMX network. When placing the PO, please provide the contact information of your DMX integrator.



File Name: VEGA-24-TW-SURFACE-SPEC



GENERIC DMX NETWORK ARCHITECTURE





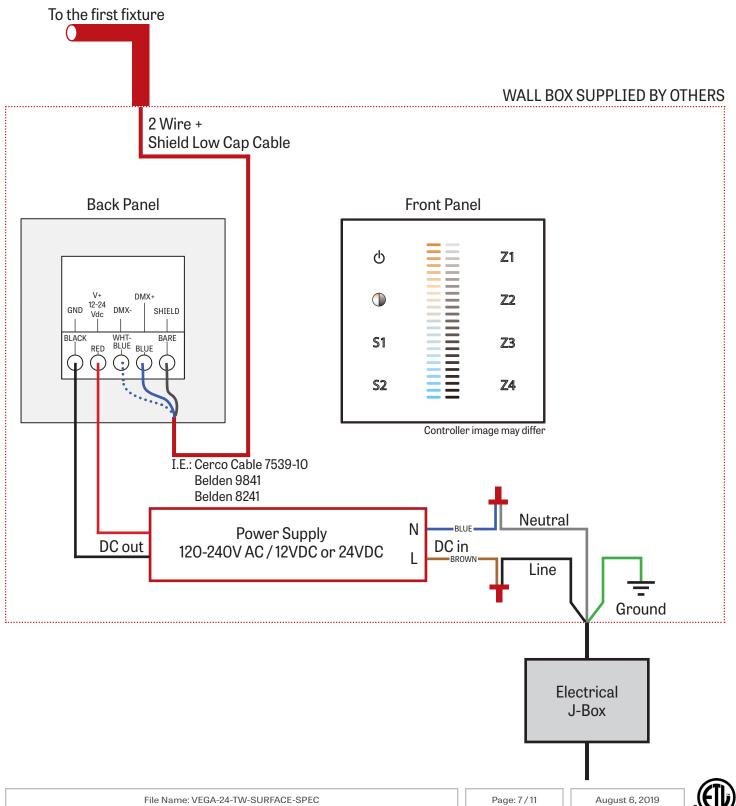
Page: 6 / 11





1

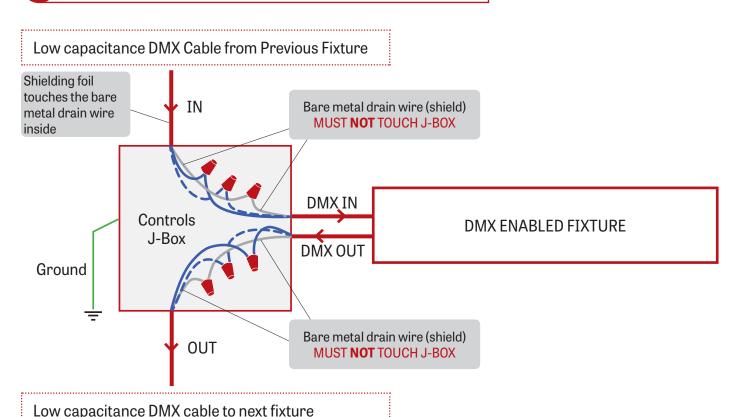
LUMENWERX SUPPLIED DMX CONTROLLER



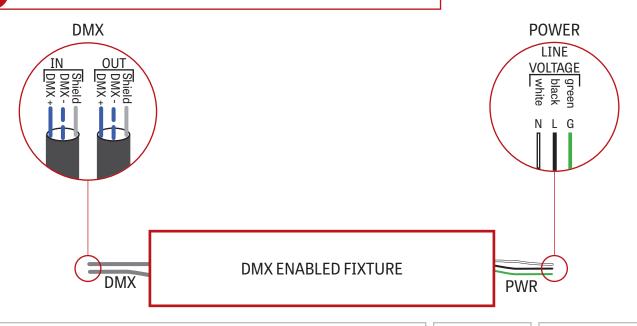


2

J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION RECESSED & SURFACE



File Name: VEGA-24-TW-SURFACE-SPEC

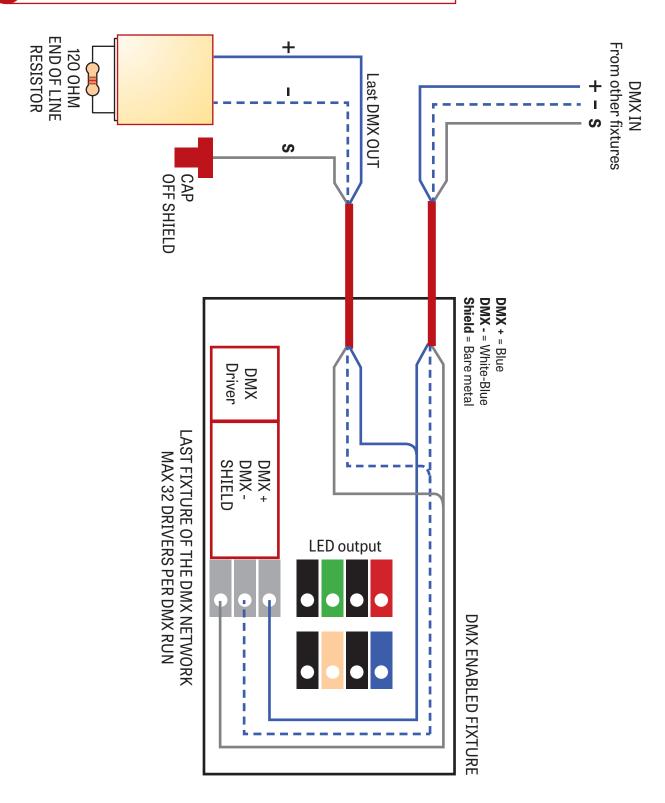
Page: 8 / 11

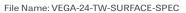




4

DMX LAST FIXTURE DETAIL





Page: 9 / 11



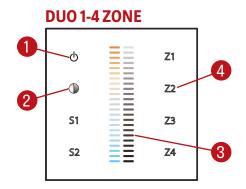
VEGA 2x4 LED

SURFACE



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:

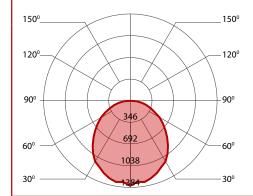
1Warm 2 Cool





CHROMAWERX TUNABLE WHITE AND DIM TO WARM

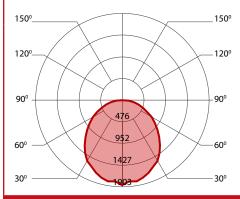
4000 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
low output	2700K	37.5	4000	106
low output	3000K	37	4000	109
low output	3500K	36	4000	112
low output	4000K	35	4000	116
low output	6500K	33.5	4000	120

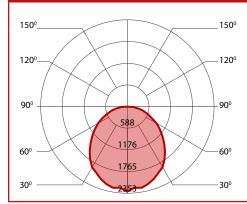
5500 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
medium output	2700K	52.5	5500	105
medium output	3000K	51	5500	108
medium output	3500K	50	5500	111
medium output	4000K	48	5500	115
medium output	6500K	46	5500	119

6800 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Nominal Delivered Lumens	Efficacy LPW
high output	2700K	66	6800	103
high output	3000K	64	6800	106
high output	3500K	62	6800	109
high output	4000K	60	6800	113
high output	6500K	58	6800	117



File Name: VEGA-24-TW-SURFACE-SPEC

Page: 11 / 11