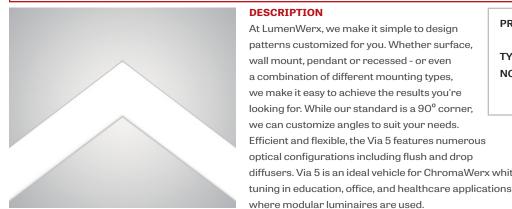
RECESSED



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



LEV - leveled corner

۸ + ۱	PR
At LumenWerx, we make it simple to design	
patterns customized for you. Whether surface,	
wall mount, pendant or recessed - or even	TY
a combination of different mounting types,	NC
we make it easy to achieve the results you're	
ooking for. While our standard is a 90° corner,	
we can customize angles to suit your needs.	
Efficient and flexible, the Via 5 features numerous	
optical configurations including flush and drop	
diffusers. Via 5 is an ideal vehicle for ChromaWerx	whit

PROJECT:	
TYPE: NOTES:	



IC RATED

up to 109 lm/w performance

VIA5RPAT	HLO	LED			
LUMINAIRE ID	OPTICS	LIGHT SOURCE	CRI	LUMEN PACKAGES	CHROMAWERX
VIA5RPAT - via 5" recessed pattern	HLO - High-Efficiency Lambertian Optic	LED - high performance LED	80 - 80CRI 90 - 90CRI	500 - min. low output 500lm/ft 750 - medium output 750lm/ft	DUO - tunable white 2 channel control 27k to 65k
				1000 - high output 1000lm/ft	SOLA - dim to warm single
				1200 - max. ultra high output 1200lm/ft	channel control 22k to 35k
				#### - other required Im/ft	

	LEV				1
PATTERN LENGTH	CORNER TYPE	CORNERS DEGREE	VOLTAGE	DRIVER	ELECTRICAL
#FT - nominal length in feet	LEV - leveled corner	90 - 90 degrees	120 - 120V	DMX - to specify see pages 7 to 12	1-1 circuit
(2' increments only)		# - other degrees	277 - 277V	DA - Dali (duo only) local on-site	
Continuous Run - for luminaires over 12'				commissioning is required	
				0-10 - Single 0-10V input (Sola) or dual	
				0-10V input for CCT/Intensity (Duo)	
				PSQ0 - Lutron T-Series 1% Tunable White	

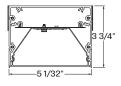
MOUNTING CEILING	MOUNTING WALL	FINISH	OPTIONS
DTR - drywall trim	DTR - drywall trim	W - matte white	FU - fuse
DTL - drywall trimless	DTL - drywall trimless	CF# - custom finish	FWC - flexible whip cable (6' std)
DMF - drywall mud flange	DMF - drywall mud flange	specify RAL#	CP - Chicago Plenum
NA - not applicable	NA - not applicable		CU - custom

See page 2 for ordering code detailed information

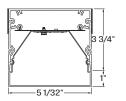
DMX WALL CONTROLS To specify see pages 7 to 12

CROSS SECTION

ORDER GUIDE

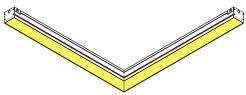


VIA5R - HLO-FH



VIA5R - HLO-1.0D

3D VIEW



LEV - leveled corner

File Name: VIA5-TW-PAT-RECESSED-SPEC

Page: 1/12

September 20, 2019



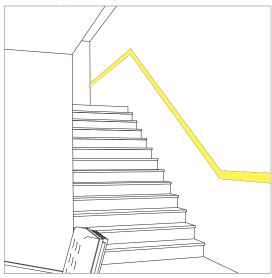
www.lumenwerx.com (T) 514-225-4304 (F) 514-931-4862 © All rights are reserved to LumenWerx ULC. $Lumen Werx\ ULC.\ reserves\ the\ right\ to\ change\ or\ modify\ product\ specifications\ without\ notification$

RECESSED



CHROMAWERX TUNABLE WHITE AND DIM TO WARM

LEVELED CORNER - DRYWALL



HOW TO SPECIFY A PATTERN?

Please follow these steps when specifying in order to be as precise as possible.

(1) We require a drawing illustrating the pattern you are trying to achieve - anything from a simple line drawing to elaborate architectural drawings will suffice.

(2) Under PATTERN LENGTH, enter the overall length of your pattern - either in feet or inches.

(3) Under CORNER TYPE, please enter the type (or types) of corner you require. If more than one type of corner is required, please separate types with a plus (+).

(4) Under CORNERS DEGREE, please enter the angle in degrees of each corner required to complete your pattern (for example 90+90+90).

	LEV	
PATTERN LENGTH	CORNER TYPE	CORNERS DEGREE
#FT - nominal length in feet (2' increments only) Continuous Run - for luminaires over 12'	LEV - leveled corner	90 - 90 degrees # - other degrees



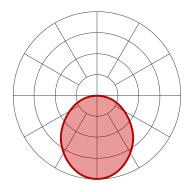
RECESSED

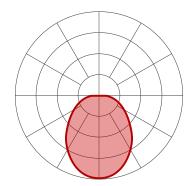


CHROMAWERX TUNABLE WHITE AND DIM TO WARM

PHOTOMETRICS

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





HLO-FH

HLO-1.0D

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

Lumens per Foot	Total Lumens Per 4FT	Input Watts	LPW
500	2000	18.5	108
750	3000	27.5	109
1000	4000	37	108
1200	4800	45	107

Multiplier - Drop Lens

Direct lens	Watts Multiplier	LPW Multiplier
Flush lens	1.00	1.00
Drop lens 1.0"	0.88	1.12

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 1.0" below the luminaire housing. Drop diffusers are extruded with glued end caps. HLO optics have a Spacing Criteria of 1.22.

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.

File Name: VIA5-TW-PAT-RECESSED-SPEC

Page: 3 / 12

September 20, 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

RECESSED



CHROMAWERX TUNABLE WHITE AND DIM TO WARM

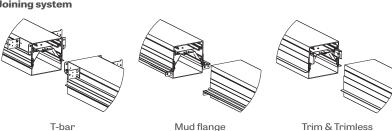
PATTERN LENGTH

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.

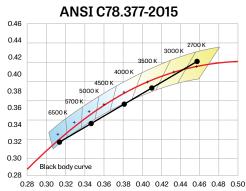
Joining system



Joining system



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.

ChromaWery 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%.

File Name: VIA5-TW-PAT-RECESSED-SPEC

Page: 4/12



RECESSED



CHROMAWERX TUNABLE WHITE AND DIM TO WARM

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.

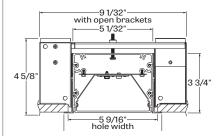
PSQ0 (Duo only)

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

Mounting Ceiling

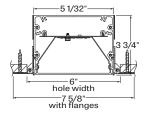
Mounting for drywall ceilings are available with visible trim, mud flange trim or trimless



3 3 3/4" hole width

DTR - drywall trim

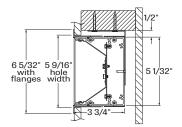
DTL - drywall trimless



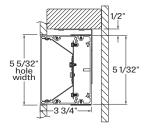
DMF - drywall mud flange

Mounting Wall

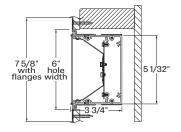
Recessed Wall Mounting for drywall is available with visible trim, mud flange, trim or trimless



DTR - drywall trim



DTL - drywall trimless



DMF - drywall mud flange

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - matte white or aluminum powder coating. Custom finishes are also available.

Intertek

RECESSED



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 18 gauge thick

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

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

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

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.

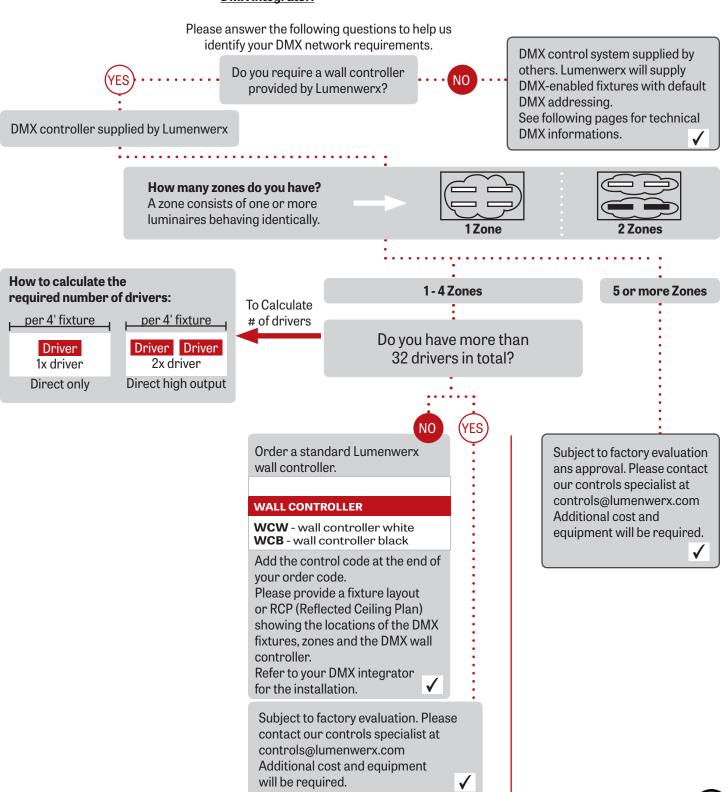
RECESSED



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.



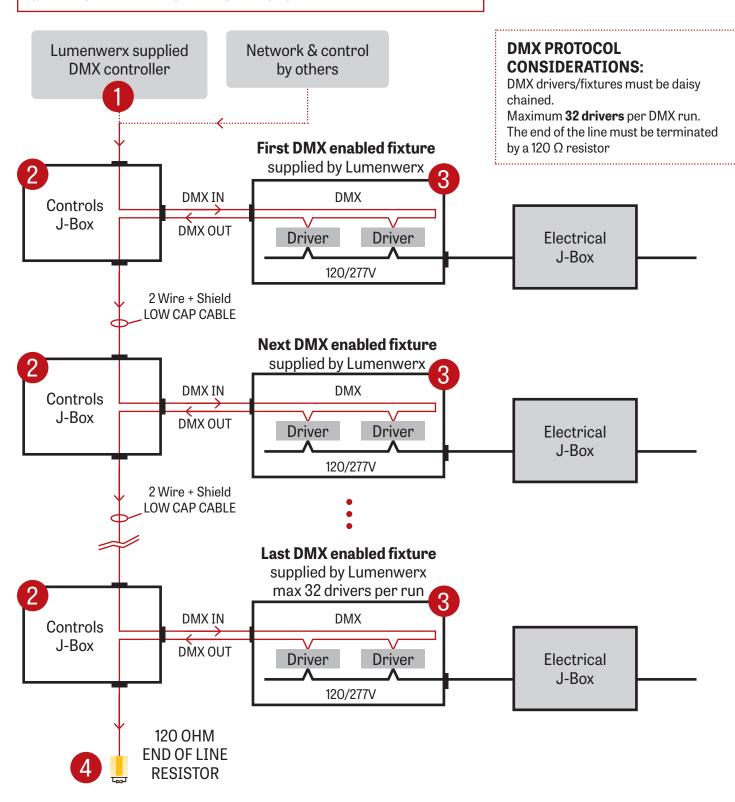
c Untertek

RECESSED



CHROMAWERX TUNABLE WHITE

GENERIC DMX NETWORK ARCHITECTURE



File Name: VIA5-TW-PAT-RECESSED-SPEC

Page: 8 / 12



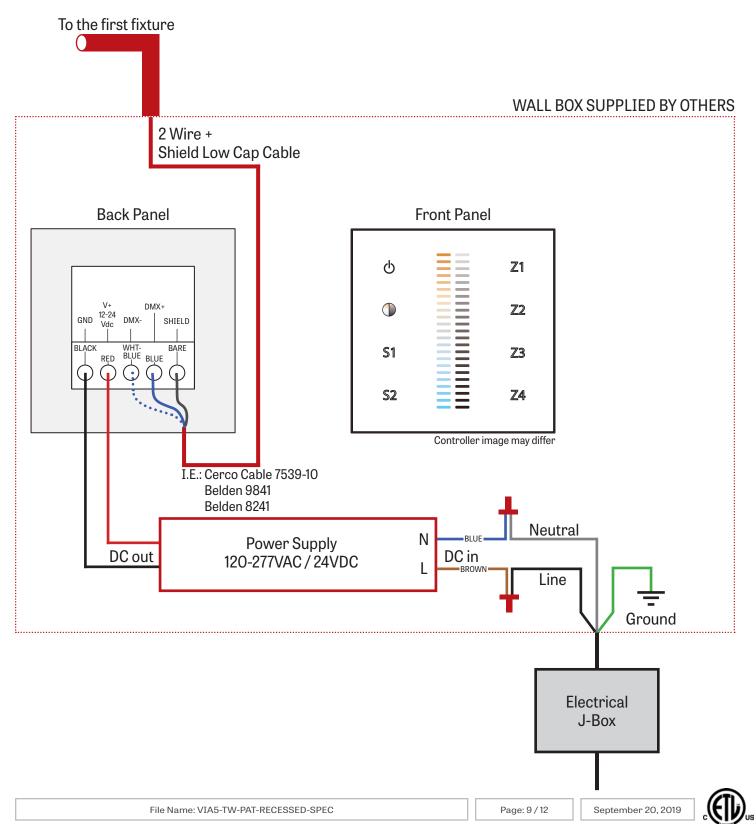
RECESSED



CHROMAWERX TUNABLE WHITE

1

LUMENWERX SUPPLIED DMX CONTROLLER



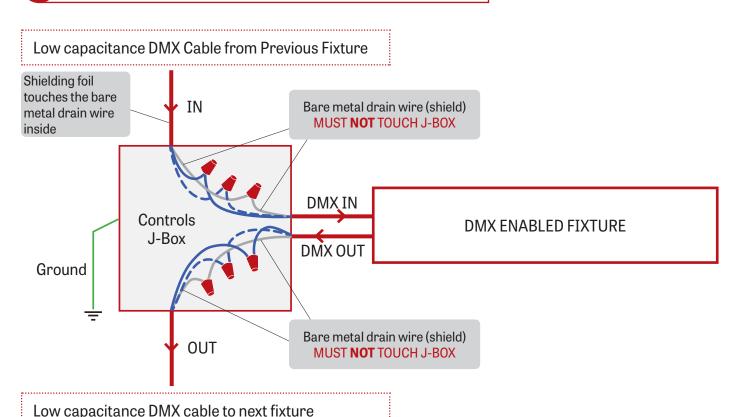
RECESSED



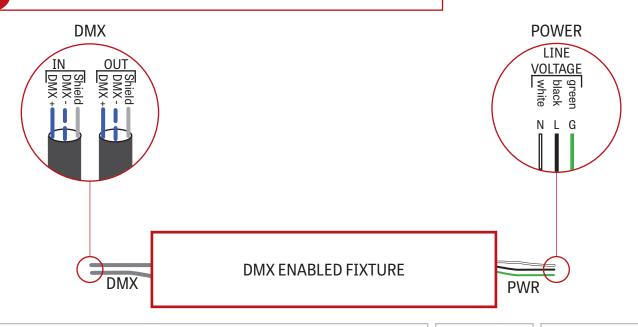
CHROMAWERX TUNABLE WHITE

2

J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION RECESSED & SURFACE



File Name: VIA5-TW-PAT-RECESSED-SPEC

Page: 10 / 12



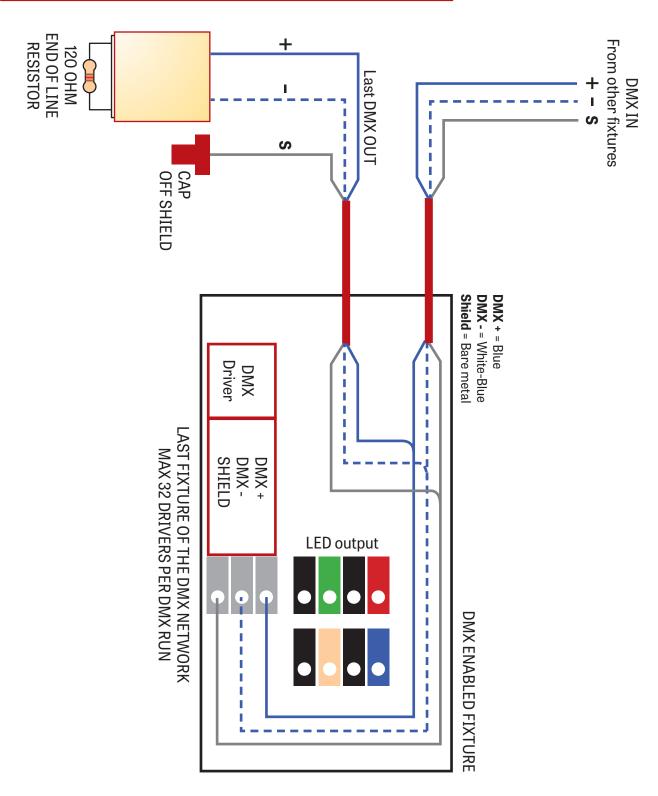
RECESSED



CHROMAWERX TUNABLE WHITE

4

DMX LAST FIXTURE DETAIL



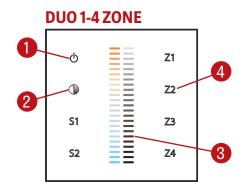


RECESSED



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.

(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

