

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





regressed



Shown with HLO 1.0" drop

DESCRIPTION

Via 5 is a high-output linear LED luminaire system for pendant, surface, recessed or in-wall installation, whether as discrete luminaires, continuous runs or patterns. Via 5 features multiple optical configurations, including wall wash and asymmetric

and offers a wide range of electrical, control and trim options. Via 5 is an ideal vehicle for ChromaWerx white tuning in education, office, and healthcare applications where modular luminaires are used.

| PROJECT: | |
|-----------------|--|
| TYPE: NOTES: | |

up to 109 lm/w performance

ORDER GUIDE

Shown with HLO

flush

IC RATED

HROMAWERX

| VIA5R | HLO | | LED | | | |
|-------------------------|------------------|-------------------------|-----------------|-------------------|---|----------------------------------|
| LUMINAIRE ID | OPTICS | LENS POSITION | LIGHT SOURCE | CRI | LUMEN PACKAGES | CHROMAWERX |
| VIA5R - via 5" recessed | HLO - High- | FH - Flush | LED - high | 80 - 80CRI | 500 - min. low output 500lm/ft | DUO - tunable white 2 |
| | Efficiency | RG - Regressed | performance LED | 90 - 90CRI | 750 - medium output 750lm/ft | channel control 27k to 65k |
| | Lambertian Optic | 1.0D - 1.0" drop | | | 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 | |

| | | | 1 | | |
|--|-------------------|---|-------------|------------------------------|------------------------|
| LUMINAIRE LENGTH | VOLTAGE | DRIVER | ELECTRICAL | MOUNTING | FINISH |
| Available sections - 4', 6', 8', 10' & 12' | 120 - 120V | DMX - to specify see pages 5 to 10 | 1-1 circuit | TG9 - tegular 9/16" | W - matte white |
| #FT - nominal length in feet | 277 - 277V | DA - Dali (duo only) local on-site commissioning is | | TG15 - tegular 15/16" | CF# - custom finish |
| (2' increments only) | | required | | TB9 - t-bar 9/16" | specify RAL# |
| Continuous Run - for luminaires over 12' | | 0-10 - Single 0-10V input (Sola) or dual 0-10V input | | TB15 - t-bar 15/16" | |
| Minimum Individual section 4' | | for CCT/Intensity (Duo) | | ST - screw slot t-bar | |
| | | PSQ0 - Lutron T-Series 1% Tunable White (Duo only) | | DTR - drywall trim | |
| | | | | DTL - drywall trimless | |
| | | | | DMF - drywall mud flange | |

See page 2 for ordering code detailed information

OPTIONS

FU - fuse

FWC - flexible whip cable (6' std)

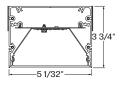
CP - Chicago Plenum

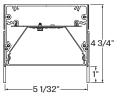
CU - custom

DMX WALL CONTROLS

To specify see pages 5 to 10

CROSS SECTION





VIA5R - HLO-FH VIA5R - HLO-RG

TECHZONE™ & USG Compatible with 6" ceiling

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VIA5R - HLO-1.0D

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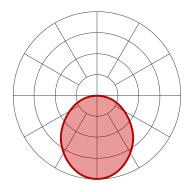
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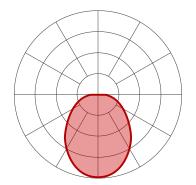


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PHOTOMETRICS

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.

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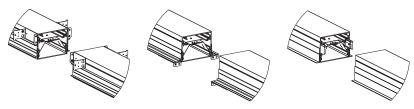
CHROMAWERX TUNABLE WHITE AND DIM TO WARM

LUMINAIRE LENGTH

Via 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.

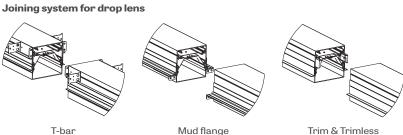
All individual sections are joined together onsite using the joiner kits provided. LumenWerx offers joiner kits that are extremely simple to work with in the field and result in a fixture that appears virtually seamless with no light leak at any connection.

Joining system

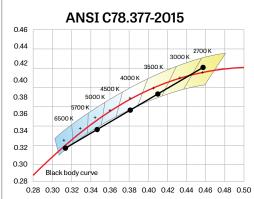


Mud flange

T-bar



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

Trim & Trimless

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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0-10V (Duo)

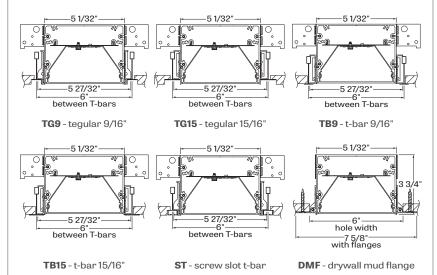
Factory-set adjustable output current LED driver with universal (120-277VAC) input. Controlled via two individual 0-10V signals, one for setting light output down to a minimum of 1% and the other for adjusting the CCT (default range of 2700K-6500K). Rated life of 50,000 hours at 70° C maximum driver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

PSQ0 (Duo only)

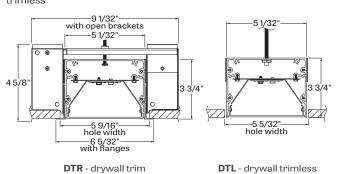
Lutron T-Series 2-Channel tunable white drivers enable high-performance human centric lighting (HCL) applications. Digital control of color temperature (CCT) and intensity are achieved when used with the ESN T-Series tunable white controller as a part of a Lutron Quatum System.

MOUNTING OPTIONS

Recess mount into exposed or concealed T-Bar or Tegular grid ceiling, Via 5 is fully compatible with Armstrong Techzone TM & USG ceilings



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



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

 $\begin{tabular}{ll} \textbf{Reflectors} - Cold \ rolled \ steel \ 0.024" \ thick \ precisely \\ die \ formed, 95\% \ reflective \ matte \ white \ painted \\ \end{tabular}$

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 5 4ft - 11.78lbs - 5.35kg Via 5 8ft - 23.79lbs - 10.8kg Via 5 12ft - 35.24lbs - 16kg

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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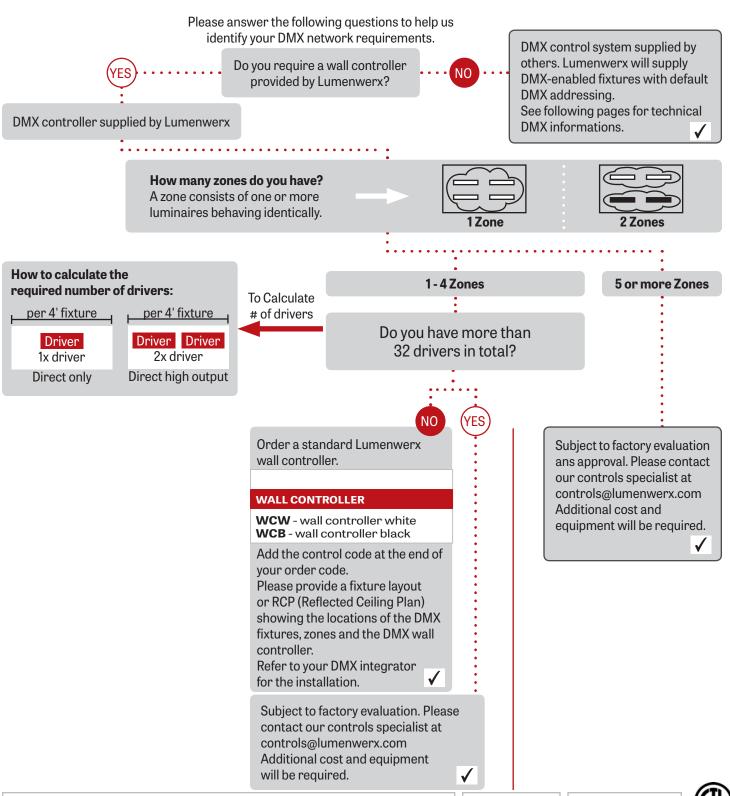




CHROMAWERX TUNABLE WHITE

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.

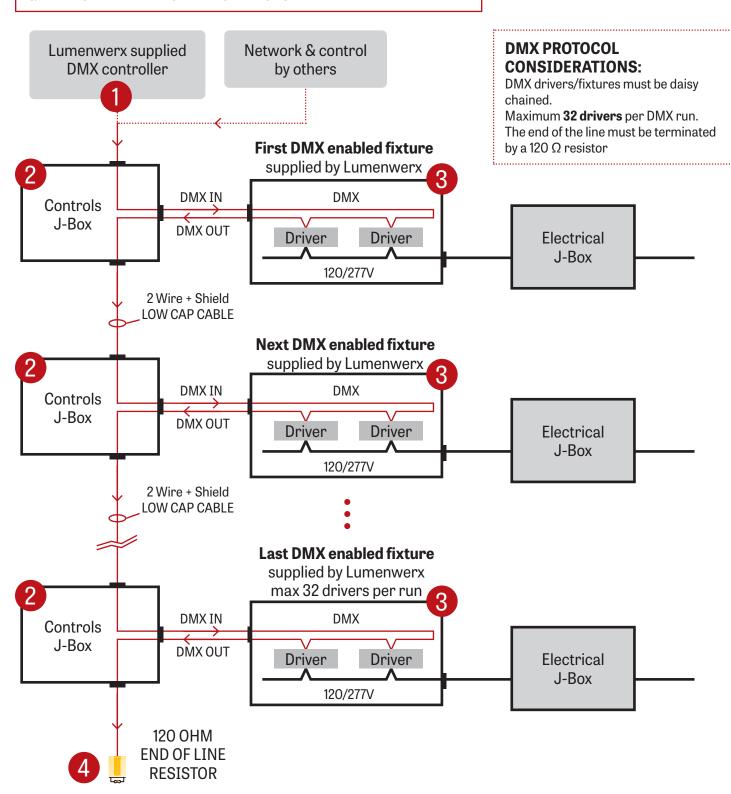


c Intertek

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GENERIC DMX NETWORK ARCHITECTURE



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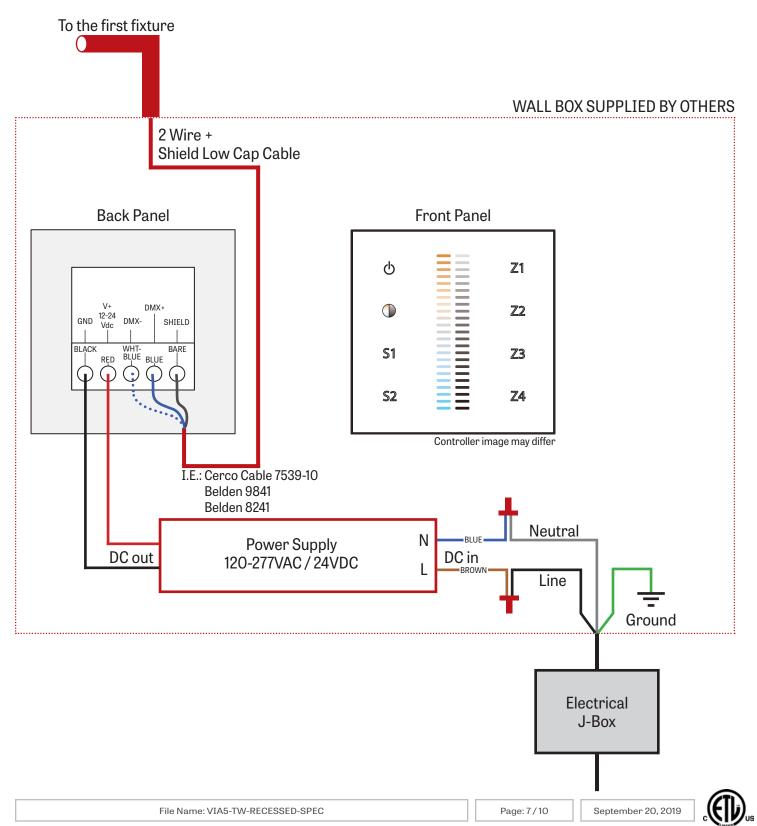
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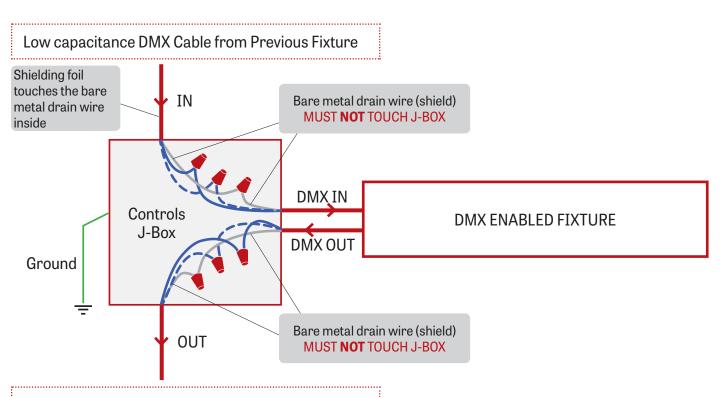
LUMENWERX SUPPLIED DMX CONTROLLER





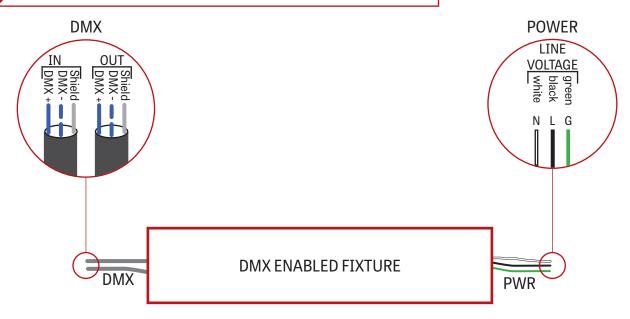
2

J-BOX DMX DAISY CHAIN DETAIL



Low capacitance DMX cable to next fixture

3 DMX CONNECTION RECESSED & SURFACE



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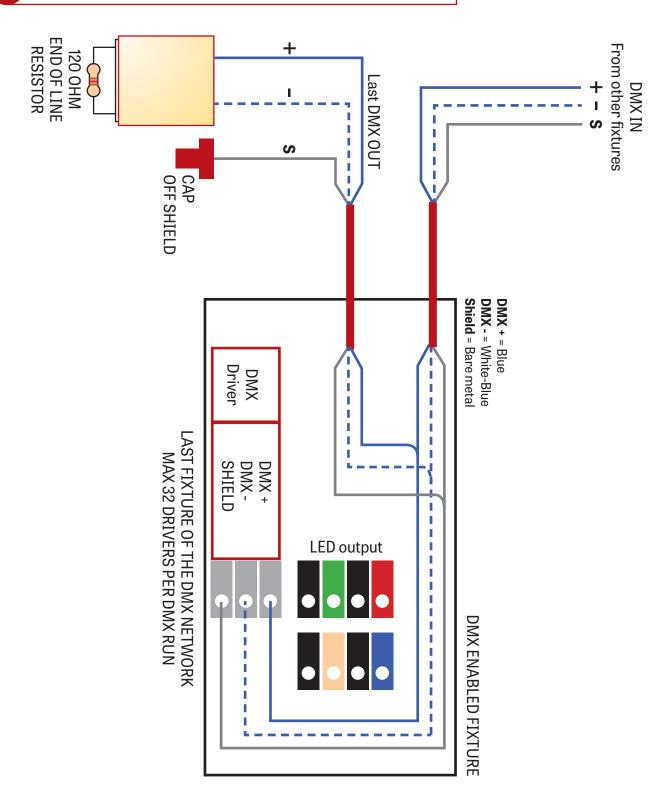
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4

DMX LAST FIXTURE DETAIL



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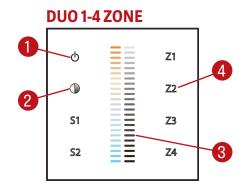






CHROMAWERX TUNABLE WHITE

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

