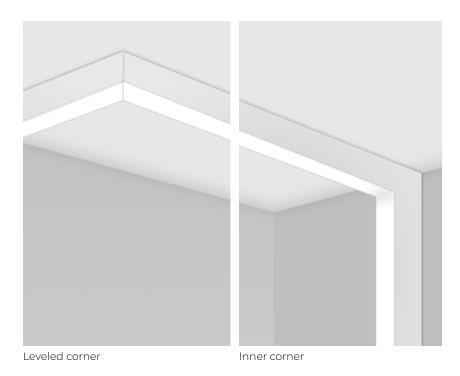


DIRECT CHROMAWERX - SOLA, DUO



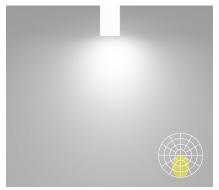




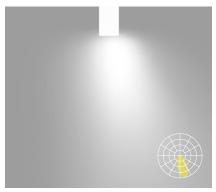
DESCRIPTION

Our elegant, flexible Via family is composed of linear, pendant, surface, recessed, and wall mounted luminaires. Each lighting fixture can be installed as a discrete luminaire or in continuous runs or patterns in which a combination of luminaires forms part of a custom design that can also incorporate less conventional acute and obtuse angles. Via 2 Surface is offered with Lambertian, asymmetric, or wall wash optics.

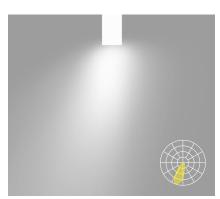
Declare.



HLO High-Efficiency Lambertian Optic



ARO2 Asymmetric Refractive Optic



WRO2 Wall Wash Refractive Optic



Lumenwerx

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Project:	
Туре:	

Order Guide

A drawing of your pattern is required - anything from a line drawing to an architectural drawing.

A didwing or your p	Address of your pattern is required anything normaline drawing to an architectural drawing.					
LUMINAIRE ID	DISTRIBUTION	OPTIC	LENS POSITION	LIGHT SOURCE ²	CRI	
VIA2SPAT	D					
VIA2SPAT - Via 2" Surface Pattern	D - Direct	HLO - High-Efficiency Lambertian Optic ARO2 - Asymmetric Refractive Optic WRO2 - Wall Wash Refractive Optic	FH¹ - Flush 0.5D¹ - 0.5" drop 1.0D¹ - 1.0" drop	SOLA - Dim-to-warm single channel control 35K to 22K DUO - Tunable white 2-channel control 65K to 27K	80CRI - 80+ CRI 90CRI - 90+ CRI	
			Por HLO, specify FH, 0.5D, or 1.0D. Por ARO2 and WRO2, specify FH.	² Static white, BIOS, and Chromawerx QUADRO also available. Consult other spec sheets.		

LUMEN PACKAGE	PATTERN LENGTH	CORNER TYPE ⁶	VOLTAGE
200LMF ³ - Hypo output 200 lm/ft 350LMF - Low output 350 lm/ft 500LMF - Medium output 500 lm/ft 750LMF - High output 750 lm/ft 1000LMF - Ultra high output 1000 lm/ft 1200LMF ⁴ - Hyper output 1200 lm/ft ³ Minimum 4' fixture. ⁴ Fixture will be very bright. Use in suitable applications.	##FT##IN(#X#FT#IN-#X#FT#IN) 5 - ##FT##IN: total nominal length of pattern in feet and/or inches #X: quantity of each section #FT#IN: nominal length of each section in feet and/or inches Continuous runs: lengths over 12' 5 · Minimum 2'. Minimum 4' for DMX	#LEV3C(A##) 7.8 - 3-way leveled corner (#LEV4C(A##) 7.8 - 4-way leveled corner (#LEV4C	 120V - 120V 277V - 277V UNV - 120V-277V

DRIVER 11	ELECTRICAL	MOUNTING CEILING	MOUNTING WALL	FINISH	OPTION
	1C				
SOLA SD1 - Single 0-10V input DUQ DMX ^{12,13} - DMX DDA ¹³ - DALI DT6 DDA8 ¹³ - DALI DT8 DD1 - Dual 0-10V input for CCT/intensity LD2 ¹³ - Lutron DALI-2 digital	IC - 1 circuit	DRC- Drywall ceiling GRD - Grid ceiling	DRM - Drywall mounting DMB - Drywall mounting bracket NA - Not applicable	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish, specify RAL#	FU120 - Fuse 120V FU277 - Fuse 277V NA - None
¹¹ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹² For more information, see pages 8 to 13. ¹³ On-site commissioning is required.					

Accessories

Optional, order separately

WALL CONTROLLER				
DMX	DD1			
WCW ¹⁴ - DMX wall controller white WCB ¹⁴ - DMX wall controller black	TWCW ¹⁵ - Dual 0-10V wall controller white TWCB ¹⁵ - Dual 0-10V wall controller black			
¹⁴ Available with DMX only. For more information, see pages 8 to 13, or consult factory.	¹⁵ Available with DD1 only. For more information, see page 14, or consult factory.			









DIRECT CHROMAWERX - SOLA, DUO

Dimensions



¹Drop lens positions available with HLO only.

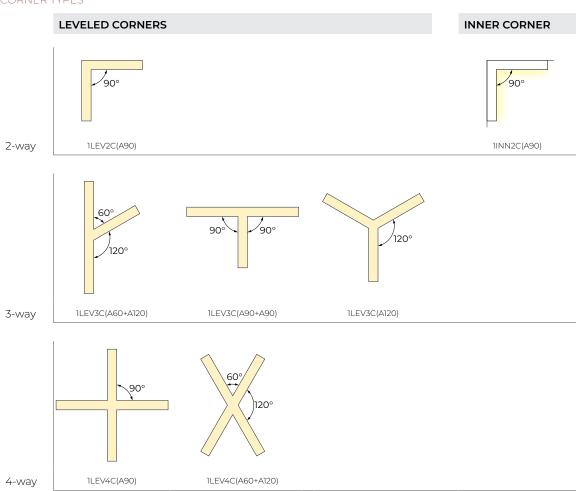




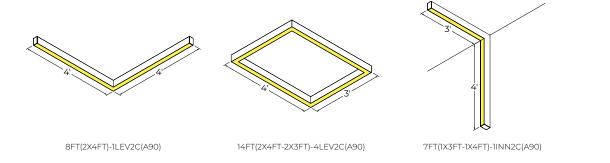
DIRECT CHROMAWERX - SOLA, DUO

Pattern Layout

CORNER TYPES



EXAMPLES











DIRECT

CHROMAWERX - SOLA, DUO

Photometrics

Values calculated based on a 4' fixture at 3500K and 80+ CRI for all optics.



LM/FT	W/FT	LM/W
	1	
200	1.8	109
350	3.2	109
500	4.7	107
750	7.2	104
1000	9.9	101
1200	12.2	98



LM/FT	W/FT	LM/W
200	1.7	119
350	3.0	116
500	4.4	113
750	7.0	107
1000	9.7	103
1200	12.1	99

WRO2



LM/FT	W/FT	LM/W
200	1.7	119
350	3.0	116
500	4.4	112
750	7.0	107
1000	9.8	102
1200	12.2	99

MULTIPLIER TABLES

Use these tables to get results for different color temperatures, CRI, and drop lenses, for all photometric tables.

SOLA

сст	WATTS		LPW	
CCI	80+ CRI	90+ CRI	80+ CRI	90+ CRI
3500K	1.00	1.19	1.00	0.84

DUO

ССТ	WA	TTS	LP	w
ССТ	80+ CRI	90+ CRI	80+ CRI	90+ CRI
2700K	1.05	1.27	0.95	0.79
6500K	100	114	100	0.88

Multiplier - Drop lens

DIRECT LENS	WATTS	LPW
Flush lens	1.00	1.00
Drop lens 0.5"	0.99	1.00
Drop lens 1.0"	0.95	1.05





DIRECT CHROMAWERX - SOLA, DUO

Technical Specifications

OPTICS

High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) uses matte white reflectors to distribute LED output across 0.075" acrylic shielding, providing up to 88% transmission and good obscuration. Available as a flush lens or as a drop lens, the HLO has a spacing criterion of 1.06.

Asymmetric Refractive Optic (ARO2)

The Asymmetric Refractive Optic (ARO2) uses a sophisticated reflector combined with a matte beam-shaping film to create a smooth, effective downward light component without shadows or hot spots. It provides directional Gaussian light distribution with peak intensity at 20° above nadir and a 55° Full Width at Half Maximum (FWHM) beam angle. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

Wall Wash Refractive Optic (WRO2)

The Wall Wash Refractive Optic (WRO2) delivers smooth vertical illumination with a gentle gradient and soft visual cut-off. Its exacting configuration creates a strong downward light component without shadows or hot spots and provides light distribution with peak intensity at 21° above nadir. Microstructure material applied to the snap-in lens provides the precise refractive power and visual comfort, while achieving a high luminous efficacy.

LIGHT SOURCE

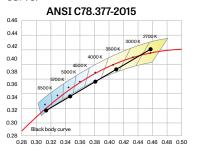
Custom linear array of alternating color temperature mid-flux LEDs are mounted directly to the housing for optimal thermal performance. For the DUO products, a color temperature range from 6500K-2700K is achievable with color points on or below the black body curve. For the SOLA products, a color temperature range from 3500K-2200K is controlled synchronously with intensity. Color consistency between fixtures is maintained to within 3 SDCM. All LEDs 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 SOLA

It is a single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple 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

It is a two-channel control. It uses an analog (0-10V) protocol for separate control of luminaire CCT and intensity or a digital (DMX, DALI, and LD2) 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 cool (6500K) to warm (2700K) 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. When paired with DALI drivers (DDA/DDA8), color tuning follows a linear dimming curve.



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.

ELECTRICAL

SOLA

SD1

Factory-set, adjustable output current LED driver with universal (120-277 VAC) 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%.

DUO

<u>DMX</u>

Factory-set adjustable output current electronic driver with 120-277 VAC 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%.







DIRECT

CHROMAWERX - SOLA, DUO

DALI

Factory-set adjustable output current electronic driver with 120-277 VAC 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. With DALI Type 6, two DALI addresses are required to control both channels. With DALI Type 8, one DALI address is required to control both channels. 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%.

DD1

Factory-set adjustable output current LED driver with universal (120-277 VAC) 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 6500K-2700K). 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.

Lutron DALI-2 digital drivers provide a high-performance tunable white solution with single-address digital control. Guaranteed performance and compatibility when used with Lutron DALI-2 controls.

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

MOUNTING

Fixtures can be mounted directly to T-Bar, drywall and hard surface ceilings, hardware supplied by others. Long runs require a minimum of 6" from the vertical wall.

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, up to 90% recycled content Interior brackets: Die-formed cold rolled sheet steel

Joining system: Die-cast zinc

Reflectors: Die-formed cold rolled steel, 95% reflective matte

white painted Lens: Acrylic

Drop lens: Extruded with glued end caps

End caps: Die-cast aluminum

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

Declare: LBC Red List Approved

WARRANTY

Lumenwerx provides a five-year limited warranty on 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.





DIRECT CHROMAWERX - SOLA, DUO

DUO DMX SPECIFICATION

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. How many zones do you have? A zone consists of one or more luminaires behaving identically. 1 Zone 2 Zones How to calculate the 5 or more Zones 1-4 Zones required number of drivers: To Calculate per 4' fixture per 4' fixture # of drivers Do you have more than Driver Driver Driver 32 drivers in total? 1x driver 2x driver Direct only Direct high output Order a standard Lumenwerx Subject to factory evaluation wall controller. ans approval. Please contact our controls specialist at controls@lumenwerx.com WALL CONTROLLER Additional cost and WCW - wall controller white equipment will be required. WCB - wall controller black Add the control code at the end of

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



your order code.

for the installation.

will be required.

controller.

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

Refer to your DMX integrator

Subject to factory evaluation. Please contact our controls specialist at controls@lumenwerx.com
Additional cost and equipment



DIRECT CHROMAWERX - SOLA, DUO

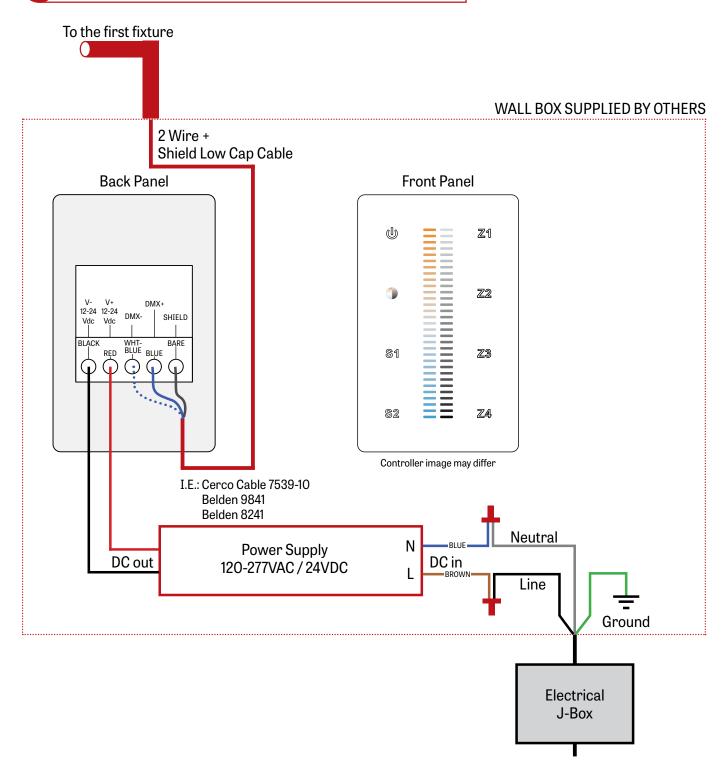
GENERIC DMX NETWORK ARCHITECTURE Lumenwerx supplied Network & control **DMX PROTOCOL** DMX controller **CONSIDERATIONS:** by others DMX drivers/fixtures must be daisy chained. Maximum 32 drivers per DMX run. The end of the line must be terminated First DMX enabled fixture by a 120 Ω resistor supplied by Lumenwerx **DMX IN** DMX Controls J-Box **DMX OUT** Driver Driver Electrical J-Box 120/277V 2 Wire + Shield LOW CAP CABLE **Next DMX enabled fixture** supplied by Lumenwerx **DMX IN** DMX Controls J-Box DMX OUT Driver Driver Electrical J-Box 120/277V 2 Wire + Shield LOW CAP CABLE Last DMX enabled fixture supplied by Lumenwerx max 32 drivers per run **DMX IN** DMX Controls J-Box **DMX OUT** Driver Driver Electrical J-Box 120/277V 120 OHM **END OF LINE** RESISTOR





DIRECT CHROMAWERX - SOLA, DUO

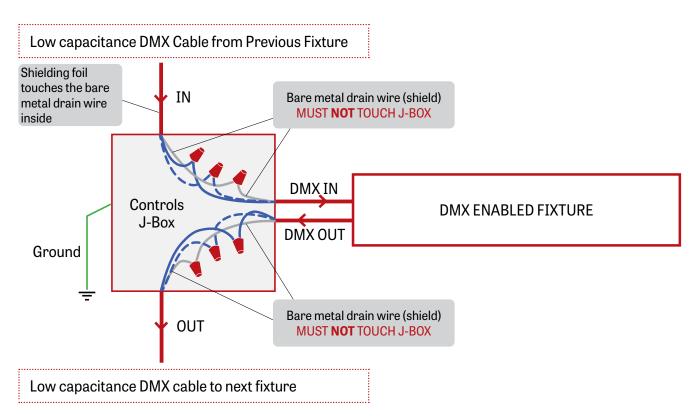
LUMENWERX SUPPLIED DMX CONTROLLER



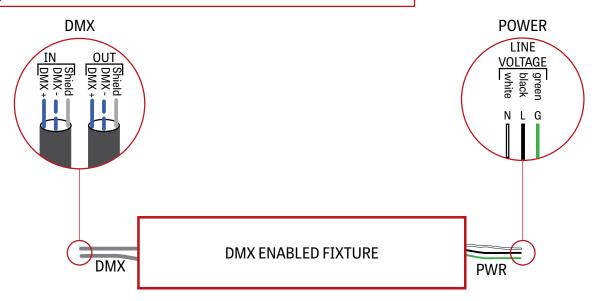


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3 DMX CONNECTION RECESSED & SURFACE

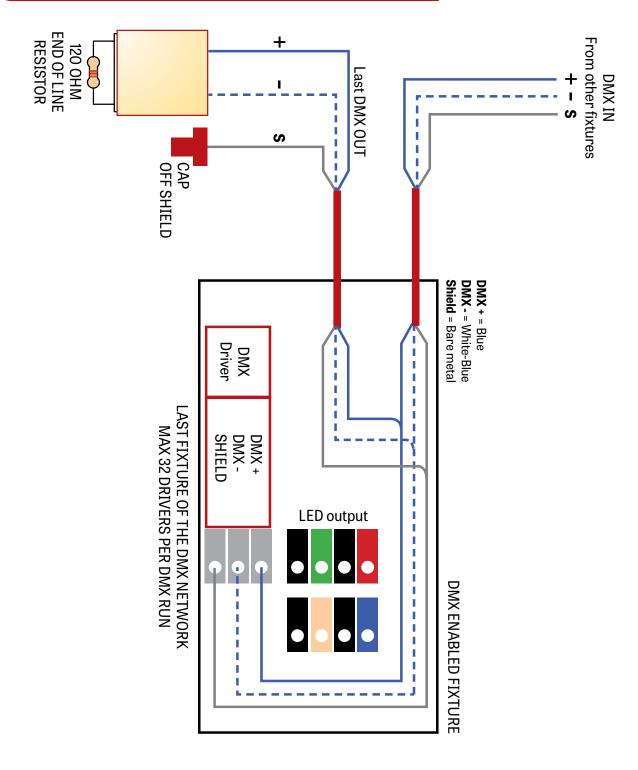






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4 DMX LAST FIXTURE DETAIL

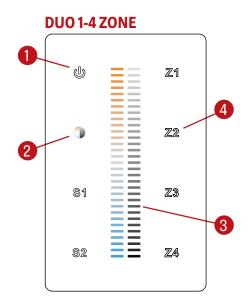






DIRECT CHROMAWERX - SOLA, DUO

DMX WALL CONTROLLER



(1) Power: Use this button to turn ON or OFF the fixture.

Use the color/brightness toggle button to choose between color/brightness. When Blue: brightness is selected, when (2) Brightness/CCT:

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.

Up to 4 zones can be selected either independently or together. (4) Zone select:

Once selected, the commands will be sent to the zone identified

by a Blue LED.

Default DMX Addresses:

1Warm 2 Cool



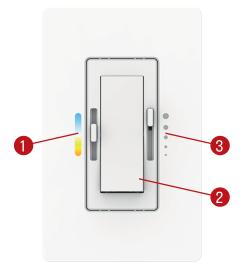




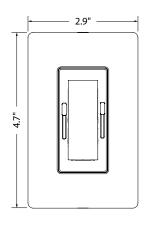
DIRECT CHROMAWERX - SOLA, DUO

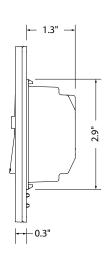
DUAL 0-10V WALL CONTROLLER

Front Panel



Dimensions





Controller image may differ

(1) CCT control: Use this button to adjust the color temperature.
(2) On/Off switch: Use this button to turn ON or OFF the fixture.
(3) Dimming control: Use this button to adjust the brightness.

Wiring Diagram

