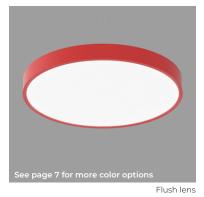
PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO



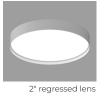
LUMENWERX

туре:



DESCRIPTION

POP Color features a painted housing with a uniformly luminous diffuser that sits flush or regressed. The diffuser and light engine form a fully enclosed unit secured by a twist-and-lock mechanism for easy maintenance with no exposed hardware. POP Color delivers up to 117 LPW and is available in nine standard housing colors. POP Color is an ideal vehicle for Chromawerx white tuning in education, office, and healthcare applications where modular luminaires are used.



Order Guide

Up to 117 Im/W performance

LUMINAIRE ID	SIZE	OPTIC	LENS POSITION	LIGHT SOURCE ¹	CRI	DIRECT LUMEN PACKAGE
PCROPDI	48IN	ULO				
PCROPDI - Pop Color Round Pendant Direct/Indirect	48IN - Ø 48"	ULO - Uniform Lambertian Optic	FH - Flush 2R - 2" regressed	SOLA - Dim-to-warm single channel control 35K to 22K	80 - 80 CRI 90 - 90 CRI	7000 - Min. low output 7000lm 10000 - Medium output 10000lm
				DUO - Tunable white 2-channel control 65K to 27K		14000 - Max. high output 14000lm #### - Other required Im
				¹ Static white also available. Consult other spec sheet.		

INDIRECT LUMEN PACKAGE	VOLTAGE	DRIVER ²	ELECTRICAL	MOUNTING
			1	5WAC36
2500 - Min. low output 2500lm 3500 - Medium output 3500lm 4500 - Max. high output 4500lm #### - Other required Im	120 - 120V 277 - 277V UNV - 120V-277V	SOLA SDI - Single 0-10V input DUO DMX 3 - DMX, to specify see pages 9 to 14 DA 3 - DALI DDI - Dual 0-10V input for CCT/intensity PSQ0 3 - Lutron T-Series 1% Tunable White ² POE (Power-over-Ethernet) compatible. Consult factory for details. ³ On-site commissioning is required.	1 - 1 circuit	5WAC36 - Power 5" white canopy (36" aircraft cable) For all other options refer to our Pendant Mounting Guide

POWER CORD COLOR OPTIONS FINISH BPC - Black power cord W - Matte white FU120 - Fuse 120V WPC - White power cord AL - Aluminum FU277 - Fuse 277V BK - Black NA - None RAL 1028 - Yellow RAL 2004 - Orange RAL 3020 - Red RAL 4010 - Magenta **PAL 5002** - Blue RAL 6018 - Green CF# - Custom finish specify RAL#

Accessories Optional, order separately

DMX WALL CONTROLLER ⁴

WCW - Wall controller white WBW - Wall controller black

⁴ Available with DMX only. For more information, see pages 9 to 14, or consult factory.



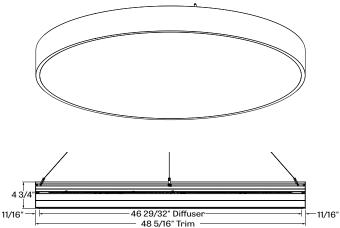




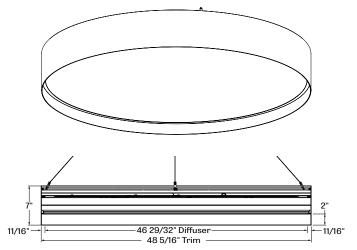
PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

Dimensions





POP COLOR 2R - 2" REGRESSED







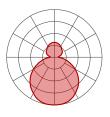


PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

Photometrics

Performance at Indirect 2500 Lumen

7000 LUMEN AT 80 CRI - LOW OUTPUT



LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Low output	2700K	88.3	7000	2500	9500	108
Low output	3000K	86.5	7000	2500	9500	110
Low output	3500K	84	7000	2500	9500	113
Low output	4000K	81	7000	2500	9500	117
Low output	5000K	78	7000	2500	9500	122

10000 LUMEN AT 80 CRI - MEDIUM OUTPUT

LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Medium output	2700K	119.4	10000	2500	12500	105
Medium output	3000K	117	10000	2500	12500	107
Medium output	3500K	113.5	10000	2500	12500	110
Medium output	4000K	109.5	10000	2500	12500	114
Medium output	5000K	105	10000	2500	12500	119

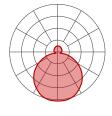
14000 LUMEN AT 80 CRI - HIGH OUTPUT

3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9

T (514) 225-4304 F (514) 931 -4862

www.lumenwerx.com

LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
High output	2700K	160.2	14000	2500	16500	103
High output	3000K	157	14000	2500	16500	105
High output	3500K	153	14000	2500	16500	108
High output	4000K	147.5	14000	2500	16500	112
High output	5000K	142	14000	2500	16500	116





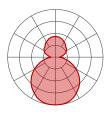




PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

Performance at Indirect 3500 Lumen

7000 LUMEN AT 80 CRI - LOW OUTPUT



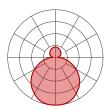
LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	DELIVERED LUMENS	EFFICACY LPW
			[
Low output	2700K	98.5	7000	3500	10500	107
Low output	3000K	96.5	7000	3500	10500	109
Low output	3500K	93.5	7000	3500	10500	112
Low output	4000K	90.5	7000	3500	10500	116
Low output	5000K	87	7000	3500	10500	121

10000 LUMEN AT 80 CRI - MEDIUM OUTPUT

LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Medium output	2700K	128.6	10000	3500	13500	105
Medium output	3000K	126	10000	3500	13500	107
Medium output	3500K	122.5	10000	3500	13500	110
Medium output	4000K	118.5	10000	3500	13500	114
Medium output	5000K	114.5	10000	3500	13500	118

14000 LUMEN AT 80 CRI - HIGH OUTPUT

LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
High output	2700K	171.4	14000	3500	17500	102
High output	3000K	168	14000	3500	17500	104
High output	3500K	162	14000	3500	17500	108
High output	4000K	157.5	14000	3500	17500	111
High output	5000K	151	14000	3500	17500	116





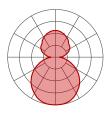




PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

Performance at Indirect 4500 Lumen

7000 LUMEN AT 80 CRI - LOW OUTPUT



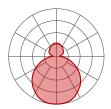
LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Low output	2700K	111.7	7000	4500	11500	103
Low output	3000K	109.5	7000	4500	11500	108
Low output	3500K	102.5	7000	4500	11500	112
Low output	4000K	100	7000	4500	11500	115
Low output	5000K	96	7000	4500	11500	120

10000 LUMEN AT 80 CRI - MEDIUM OUTPUT

LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Medium output	2700K	139.8	10000	4500	14500	104
Medium output	3000K	137	10000	4500	14500	106
Medium output	3500K	133	10000	4500	14500	109
Medium output	4000K	128.5	10000	4500	14500	113
Medium output	5000K	123	10000	4500	14500	118

14000 LUMEN AT 80 CRI - HIGH OUTPUT

LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
High output	2700K	181.6	14000	4500	18500	102
High output	3000K	178	14000	4500	18500	104
High output	3500K	171.5	14000	4500	18500	108
High output	4000K	166.5	14000	4500	18500	111
High output	5000K	159.5	14000	4500	18500	116









PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

Technical Specifications

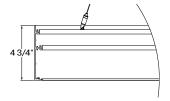
OPTIC

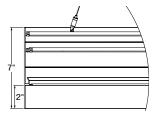
Uniform Efficiency Lambertian Optic (ULO)

Made of formed impact modified white PMMA, the optic provides an even light distribution with up to 88% transmission. Its unique enclosed shell design protects LEDs against Electrostatic Discharge and dust while its back surface project a soft glow on the mounting surface.

LENS POSITION

Pop Color Round 48 pendant is available in 2 lens configurations.





PCROPDI + FH - Flush lens

PCROPDI + 2R - 2" regressed lens

LIGHT SOURCE

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 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 3SDCM. LEDs are operated at reduced drive current to optimize efficacy and lumen maintenance.

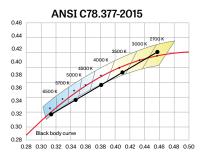
All LED's have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

CHROMAWERX - TUNABLE WHITE 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 PSQ0) 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.









PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

ELECTRICAL

SOLA

SD1

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%.

DUO

DMX

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

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%.

DD1

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 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.

PSQ0

Lutron T-Series 2-Channel tunable white drivers enable highperformance 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 Quantum System.

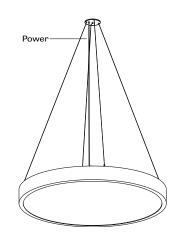
PoE

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), emergency battery backup, and sensor integration. These must be addressed and evaluated on a caseby-case basis.

MOUNTING OPTION

Fixtures are pendant-mounted, using aircraft cables. Unless otherwise specified, Lumenwerx provides the following hardware: For cable-mounted fixtures - 5WAC36, 5" white canopy with a 36" cable.

For all other options, see our website for a detailed Pendant Mounting Guide



FINISH

Interior - 95%, reflective, matte white powder coating Exterior - Side trim is offered in a range of vibrant color powder coating.









PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

CONSTRUCTION

Housing - Rolled and seamlessly welded aluminum extrusion .125in thick, wide variety of colored powder coating Diffuser - Uniform Lambertian Optic, thermoformed impact modified acrylic, completely enclosed

WEIGHT

RD 48 Flush, 2R - 53.38lbs - 24.24kg

CERTIFICATION

ETL - Rated for Indoor Dry/Damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

WARRANTY

Lumenwerx provides a five-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.

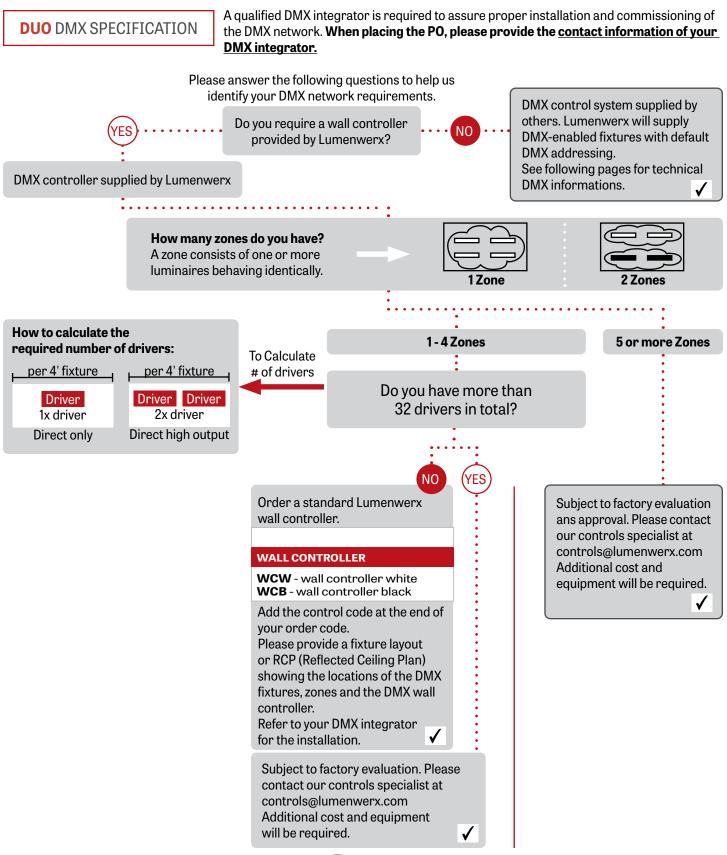








PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO





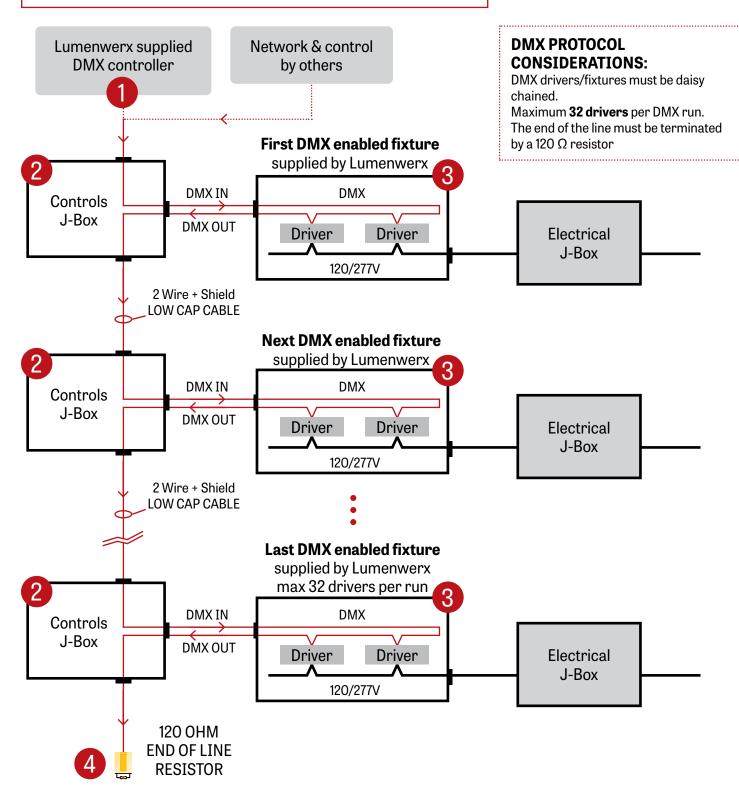
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PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

GENERIC DMX NETWORK ARCHITECTURE

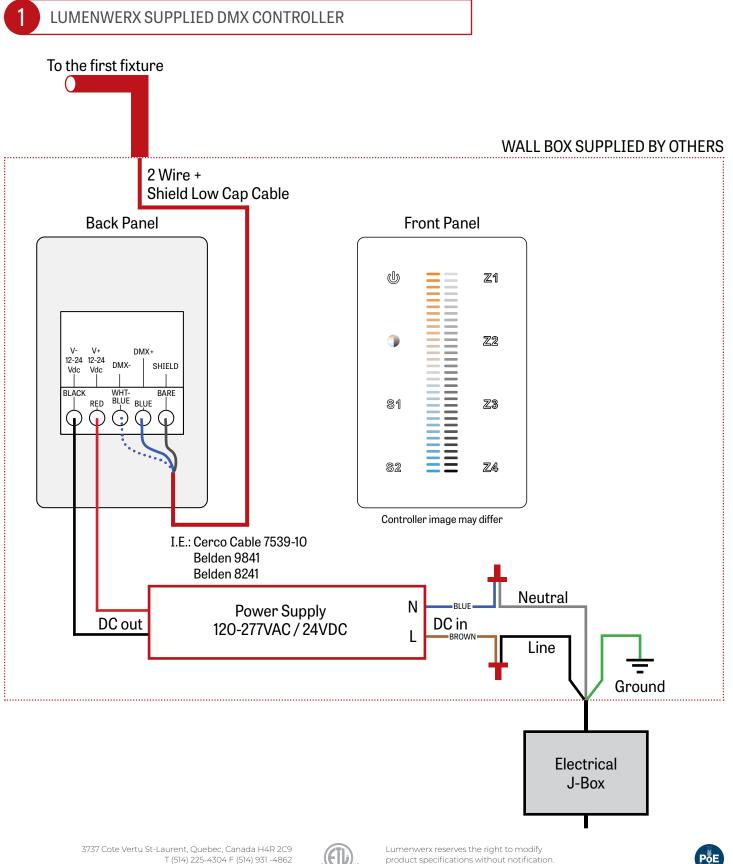








PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

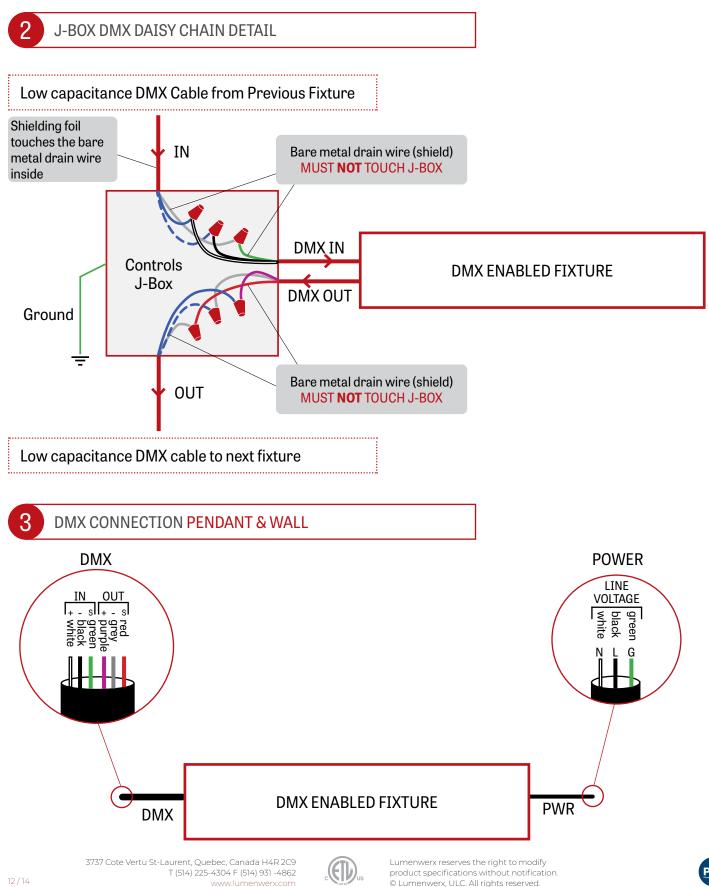


Intertek



POPCOLOR-48-TW-ROUND-PENDANT-DIRECT-INDIRECT-SPEC-REV2 February62024

PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO



Intertek

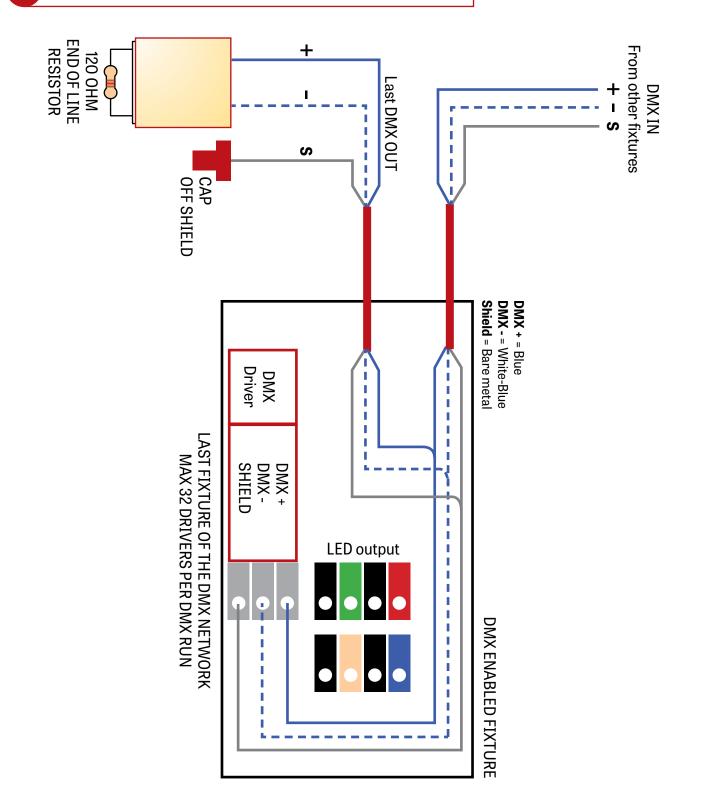


🚺 LUMENWERX

PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO



DMX LAST FIXTURE DETAIL



Lumenwerx reserves the right to modify

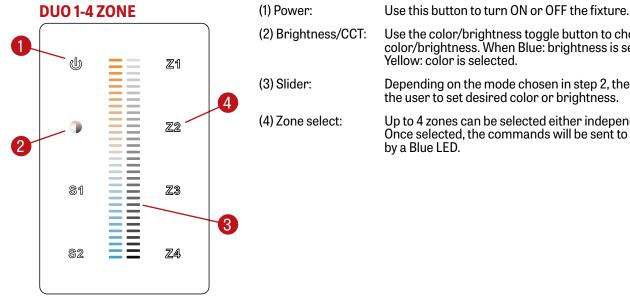
product specifications without notification.





PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

DMX WALL CONTROLLER



/CCT:	Use the color/brightness toggle button to choose between color/brightness. When Blue: brightness is selected, when Yellow: color is selected.

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

Default DMX Addresses: 1Warm 2 Cool



