POP COLOR ROUND 24



Up to 109 lm/W performance

SURFACE CHROMAWERX - SOLA AND DUO



Type:

Flush lens

DESCRIPTION

POP Color features a painted housing with a uniformly luminous diffuser that sits flush, regressed or drops up to 4" below. 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 109 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

LUMINAIRE ID	SIZE	OPTIC	LENS POSITION	LIGHT SOURCE ¹	CRI	LUMEN PACKAGE
PCROS	24IN	ULO				
PCROS - Pop Color Round	24IN - Ø 24"	ULO - Uniform	FH - Flush	SOLA - Dim-to-warm single	80 - 80 CRI	2500 - Min. low output 2500lm
Surface		Lambertian Optic	2R - 2" regressed	channel control 35K to 22K	90 - 90 CRI	3500 - Medium output 3500lm
			1D - 1" drop	DUO - Tunable white		4500 - Max. high output 4500lm
			2D - 2" drop	2-channel control 65K to 27K		#### - Other required Im
			3D - 3" drop			
			4D - 4" drop	¹ Static white also available. Consult other spec sheet.		

VOLTAGE	DRIVER ²	ELECTRICAL	MOUNTING	FINISH	OPTIONS
		1	SUR		
120 - 120V 277 - 277V UNV - 120V-277V	SOLA SD1 - Single 0-10V input DUO DMX ³ - DMX, to specify see pages 7 to 12 DA ³ - DALI DD1 - 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	SUR - Surface mount	W - Matte white AL - Aluminum BK - Black RAL 1028 - Yellow RAL 2004 - Orange RAL 3020 - Red RAL 4010 - Magenta RAL 5002 - Blue RAL 6018 - Green CF# - Custom finish specify RAL#	FU120 - Fuse 120V FU277 - Fuse 277V NA - None

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 7 to 12, or consult factory.



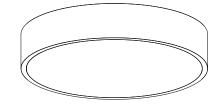


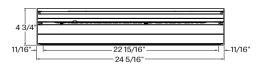


SURFACE CHROMAWERX - SOLA AND DUO

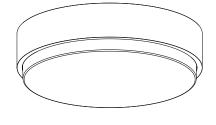
Dimensions

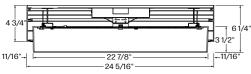
POP COLOR FH - FLUSH



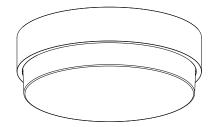


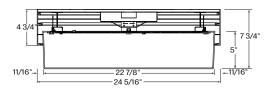
POP COLOR 1D - 1" DROP



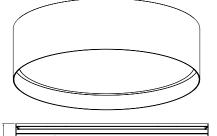


POP COLOR 3D - 3" DROP



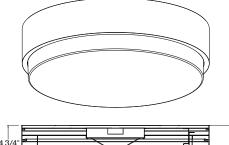


POP COLOR 2R - 2" REGRESSED



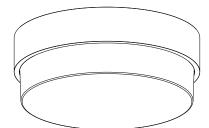


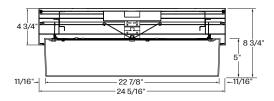
POP COLOR 2D - 2" DROP





POP COLOR 4D - 4" DROP





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SURFACE CHROMAWERX - SOLA AND DUO

Photometrics

2500 LUMEN AT 80 CRI - LOW OUTPUT

LED OUTPUT	COLOR TEMP	WATTS	NOMINAL DELIVERED LUMENS	EFFICACY LPW
Low output	2700K	25	2500	100
Low output	3000K	24.5	2500	102
Low output	3500K	23.5	2500	106
Low output	4000K	23	2500	109
Low output	5000K	22	2500	114
Low output	6500K	22	2500	113

3500 LUMEN AT 80 CRI - MEDIUM OUTPUT

LED OUTPUT	COLOR TEMP	WATTS	NOMINAL DELIVERED LUMENS	EFFICACY LPW
Medium output	2700K	36.5	3500	96
Medium output	3000K	35.5	3500	98
Medium output	3500K	34.5	3500	102
Medium output	4000K	33.5	3500	105
Medium output	5000K	32	3500	109
Medium output	6500K	32	3500	109

4500

4500

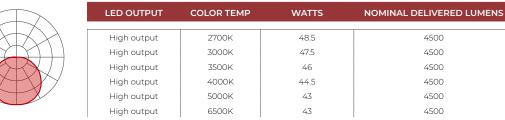
4500

4500

4500

4500

4500 LUMEN AT 80 CRI - HIGH OUTPUT









EFFICACY LPW

93

95

98

101

105

105



SURFACE CHROMAWERX - SOLA AND DUO

Technical Specifications

OPTIC

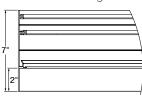
Uniform Efficiency Lambertian Optic (ULO)

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

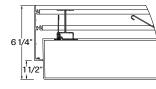
Pop Color Round 24 surface is available in 6 lens configurations.

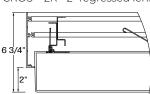




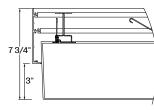
PCROS + FH - Flush lens

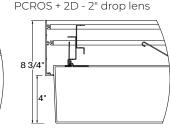
PCROS + 2R - 2" regressed lens





PCROS + 1D - 1" drop lens





PCROS + 3D - 3" drop lens

PCROS + 4D - 4" drop 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.

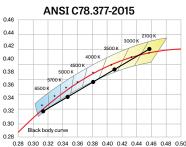
CHROMAWERX - TUNABLE WHITE

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.



0.32 0.30



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SURFACE 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

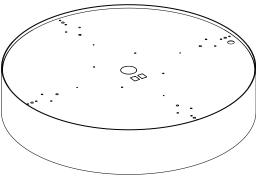
Lutron T-Series 2-Channel tunable white drivers enable highperformance human centric lighting (HCL) applications. Digital control of color temperature (CCT) and intensity are achieved when used with the ESN T-Series tunable white controller as a part of a Lutron Quantum System.

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 can be mounted directly to T-bar, drywall and hard surface ceilings. Mounting hardware supplied by others.



SUR - Surface mount

FINISH

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









SURFACE 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 24 Flush, 1D, 2D - 16.26lbs - 7.39kg RD 24 2R, 3D, 4D - 17.16lbs - 7.8kg

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

6/12

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.

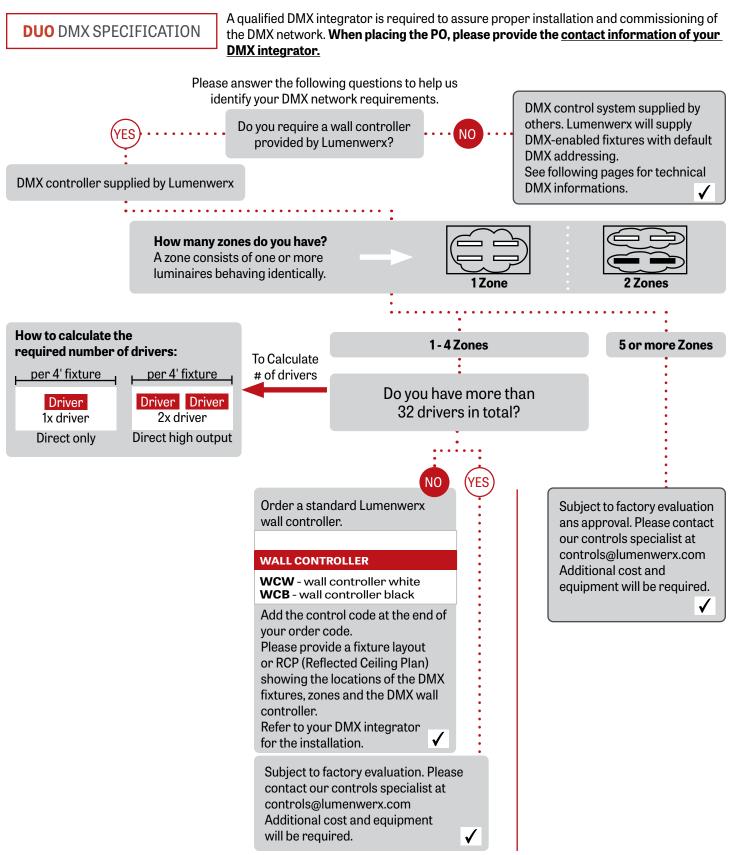




POP COLOR ROUND 24



SURFACE CHROMAWERX - SOLA AND DUO





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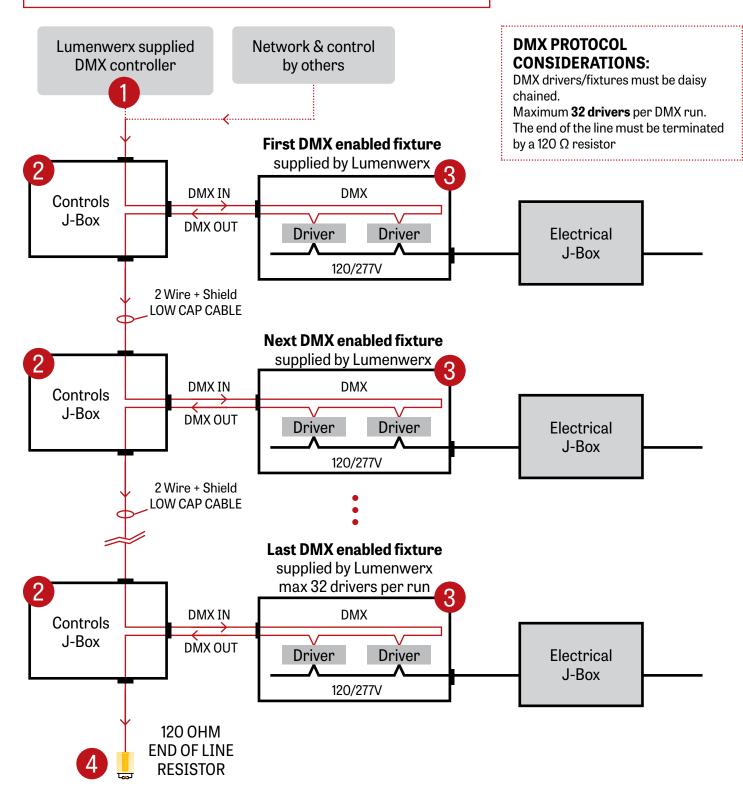




SURFACE

CHROMAWERX - SOLA AND DUO

GENERIC DMX NETWORK ARCHITECTURE





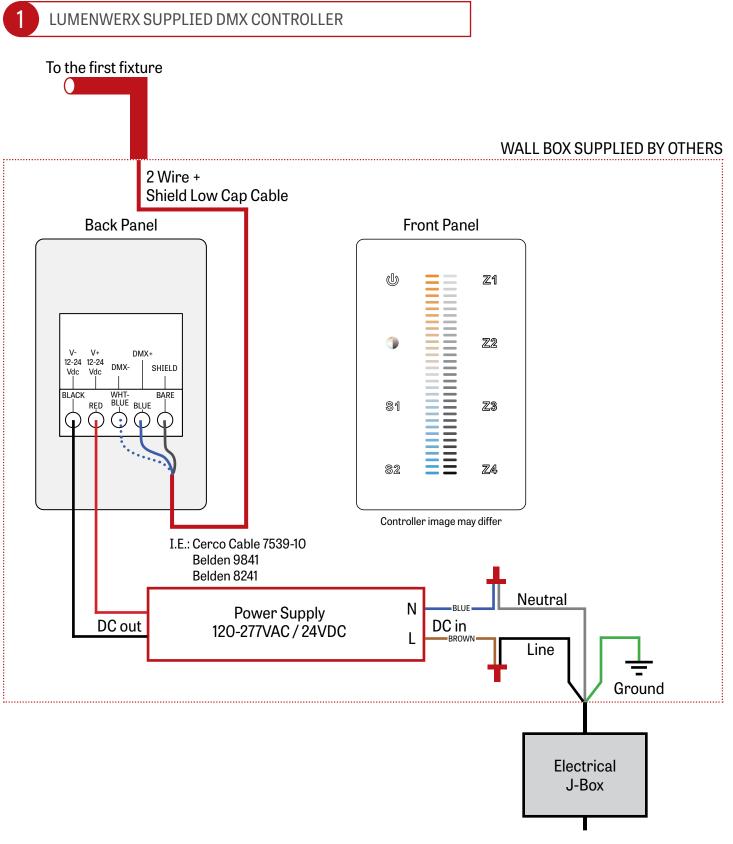


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CHROMAWERX - SOLA AND DUO





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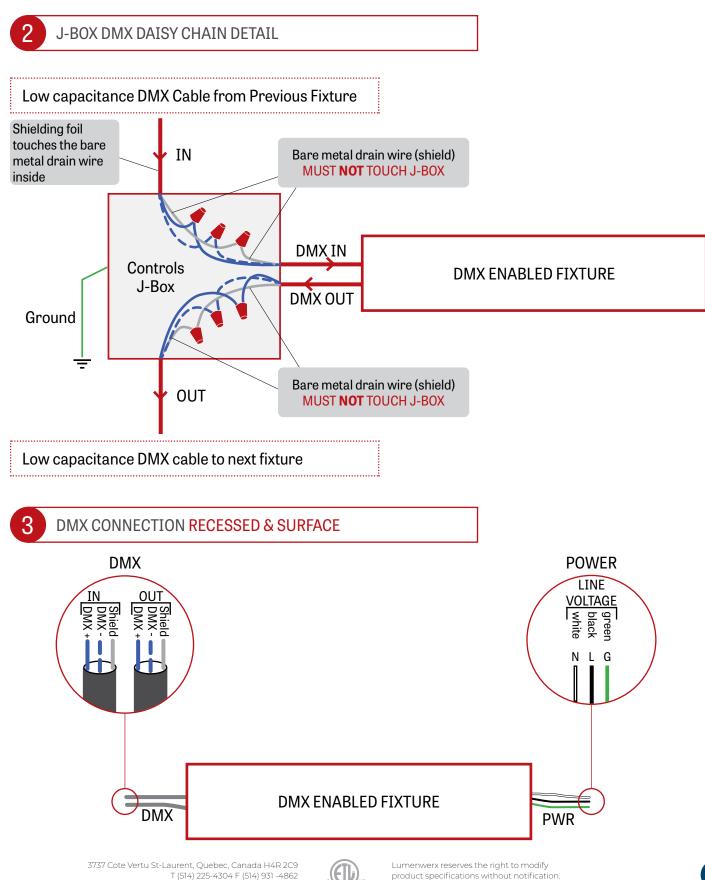
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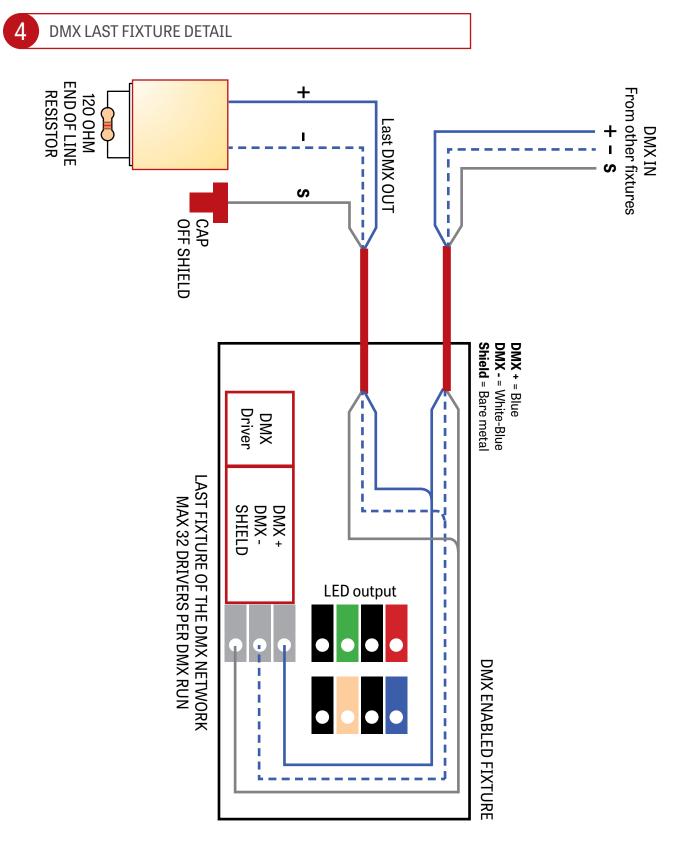
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POP COLOR ROUND 24



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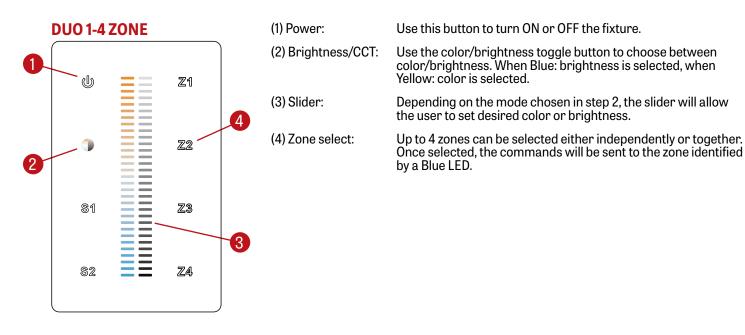
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SURFACE CHROMAWERX - SOLA AND DUO

DMX WALL CONTROLLER



Default DMX Addresses: 1Warm 2 Cool



