POP COLOR SQUARE 1x1



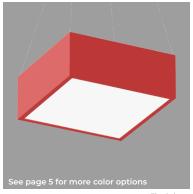
LUMENWERX

PENDANT DIRECT CHROMAWERX - SOLA AND DUO



Project:

Туре:



DESCRIPTION

POP Color features a painted housing with a uniformly luminous diffuser that sits flush, regressed or drops up to 2" 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 103 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.







Flush lens

2" regressed lens

1" drop lens

2" drop lens

Order Guide

Up to 103 lm/W performance

LUMINAIRE ID	SIZE	OPTIC	LENS POSITION	LIGHT SOURCE 1	CRI	LUMEN PACKAGE
PCSQPD	1FTX1FT	ULO				
	i	i	1		1	
PCSQPD - Pop Color Square	1FTX1FT - 1' X 1'	ULO - Uniform	FH - Flush	SOLA - Dim-to-warm single	80 - 80 CRI	750 - Min. low output 750lm
Pendant Direct		Lambertian Optic	2R - 2" regressed	channel control 35K to 22K	90 - 90 CRI	900 - Medium output 900lm
			1D - 1" drop	DUO - Tunable white		1100 - Max. high output 1100lm
			2D - 2" drop	2-channel control 65K to 27K		#### - Other required Im
				¹ Static white also available.		
				Consult other spec sheet.		

VOLTAGE	DRIVER ²	ELECTRICAL	MOUNTING	POWER CORD COLOR
		1	5SWAC36	
120 - 120V	SOLA	1 - 1 circuit	5SWAC36 - Power 5" square white	BPC - Black power cord
277 - 277V	SD1 - Single 0-10V input		canopy (36" aircraft cable)	WPC - White power cord
UNV -	DUO		For all other options refer to our	
120V-277V	DMX ³ - DMX, to specify see pages 7 to 12		Pendant Mounting Guide	
	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.			

FINISH	OPTIONS
W - Matte white	FU120 - Fuse 120V
AL - Aluminum	FU277 - Fuse 277V
BK - Black	NA - None
RAL 1028 - Yellow	
RAL 2004 - Orange	
RAL 3020 - Red	
RAL 4010 - Magenta	
RAL 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

⁴Available with DMX only. For more information, see pages 7 to 12, or consult factory.



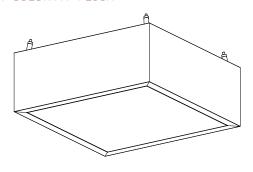


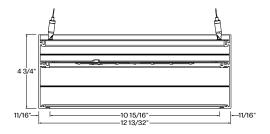
POP COLOR SQUARE 1x1 (LUMENWERX

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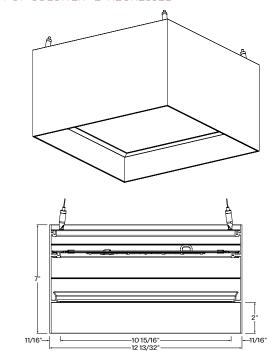
Dimensions

POP COLOR FH - FLUSH

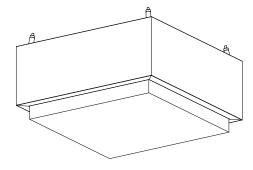


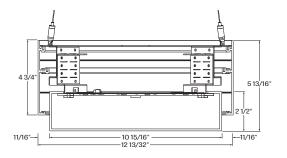


POP COLOR 2R - 2" REGRESSED



POP COLOR 1D - 1" DROP



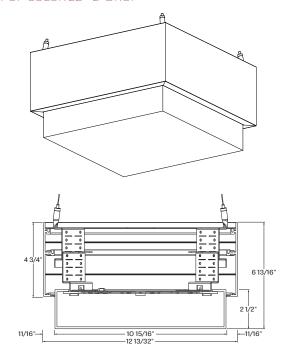


3737 Cote Vertu St-Laurent, Quebec, Canada H4R 2C9

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POP COLOR 2D - 2" DROP

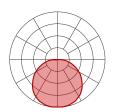






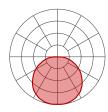
Photometrics

750 LUMEN AT 80 CRI - LOW OUTPUT



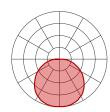
LED OUTPUT	COLOR TEMP	WATTS	NOMINAL DELIVERED LUMENS	EFFICACY LPW
Low output	2700K	8	750	95
Low output	3000K	8	750	97
Low output	3500K	7.5	750	100
Low output	4000K	7.5	750	103
Low output	5000K	7	750	107
Low output	6500K	7	750	107

900 LUMEN AT 80 CRI - MEDIUM OUTPUT



LED OUTPUT	COLOR TEMP	WATTS	NOMINAL DELIVERED LUMENS	EFFICACY LPW
Medium output	2700K	9.5	900	95
Medium output	3000K	9.5	900	97
Medium output	3500K	9	900	100
Medium output	4000K	8.5	900	103
Medium output	5000K	8.5	900	107
Medium output	6500K	8.5	900	107

1100 LUMEN AT 80 CRI - HIGH OUTPUT



LED OUTPUT	COLOR TEMP	WATTS	NOMINAL DELIVERED LUMENS	EFFICACY LPW
High output	2700K	11.5	1100	95
High output	3000K	11.5	1100	97
High output	3500K	11	1100	100
High output	4000K	10.5	1100	103
High output	5000K	10.5	1100	107
High output	6500K	10.5	1100	107





Technical Specifications

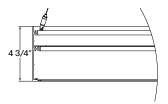
OPTIC

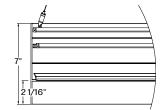
Uniform Efficiency Lambertian Optic (ULO)

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.

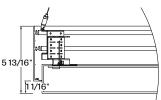
LENS POSITION

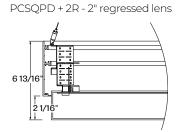
Pop Color square 11 pendant is available in 4 lens configurations.





PCSQPD + FH - Flush lens





PCSQPD + 1D - 1" drop lens

PCSQPD + 2D - 2" 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.

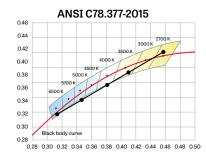
CHROMAWERX - TUNABLE WHITE

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.





POP COLOR SQUARE 1x1 (LUMENWERX

PENDANT DIRECT CHROMAWERX - SOLA AND DUO

ELECTRICAL

SOLA

SDI

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.

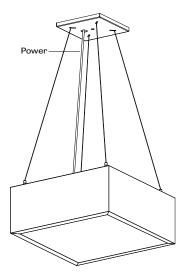
PoE

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 - 5SWAC36, 5" square 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.











CONSTRUCTION

Housing - Welded aluminum extrusion .125in thick, wide variety of colored powder coating **Diffuser** - Uniform lambertian optic, precisely formed impact modified acrylic, completely enclosed

WEIGHT

RD 11 Flush, 2R, 1D, 2D - 8.79lb - 4kg

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.





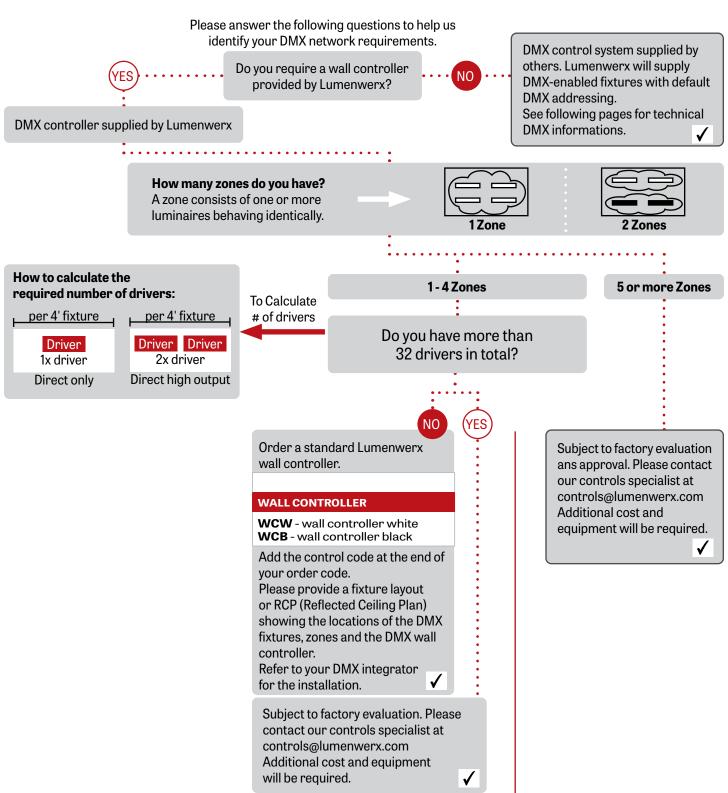
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PENDANT DIRECT CHROMAWERX - SOLA AND DUO

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.



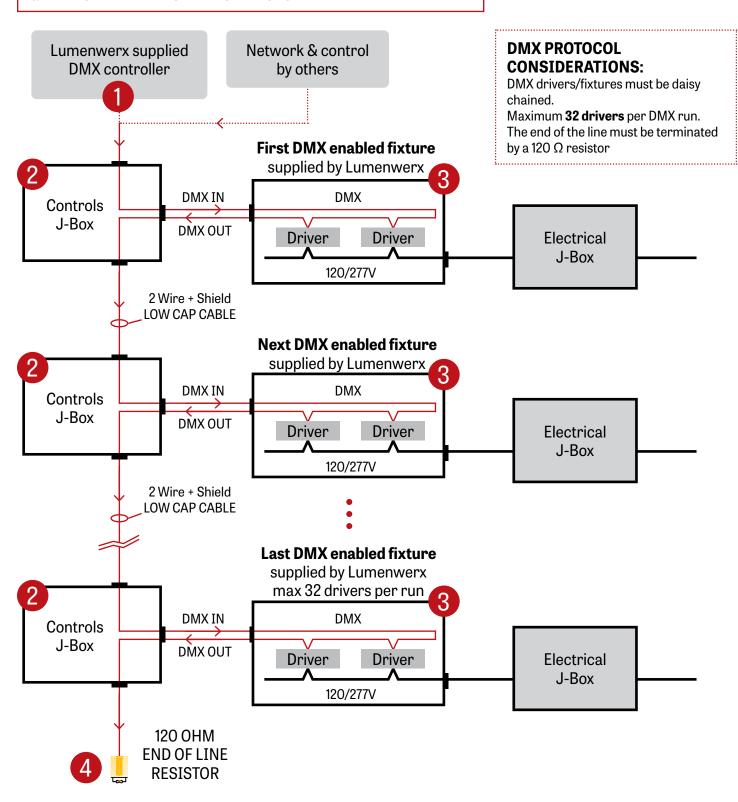




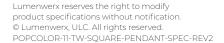




GENERIC DMX NETWORK ARCHITECTURE





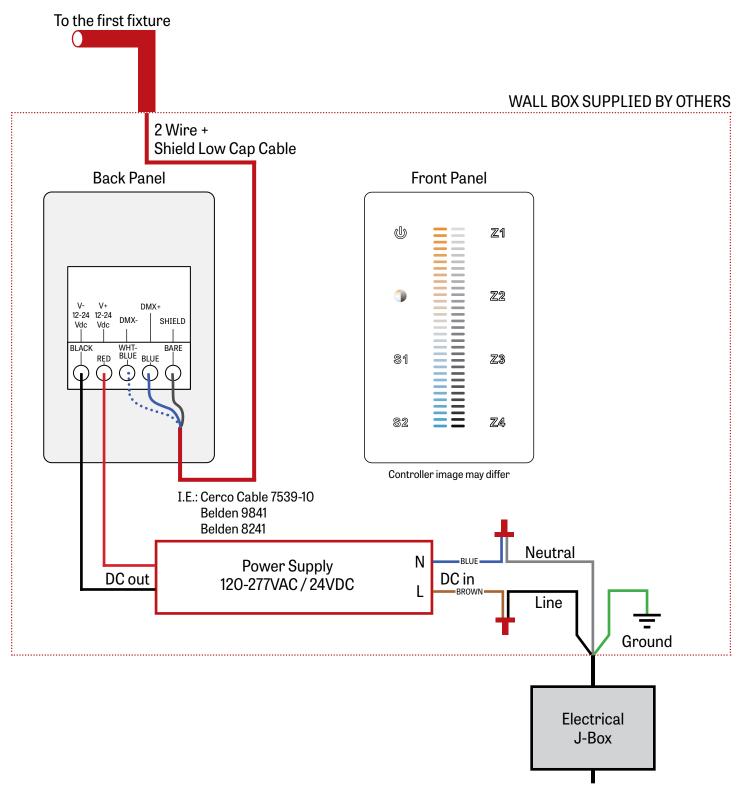




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1 LUMENWERX SUPPLIED DMX CONTROLLER





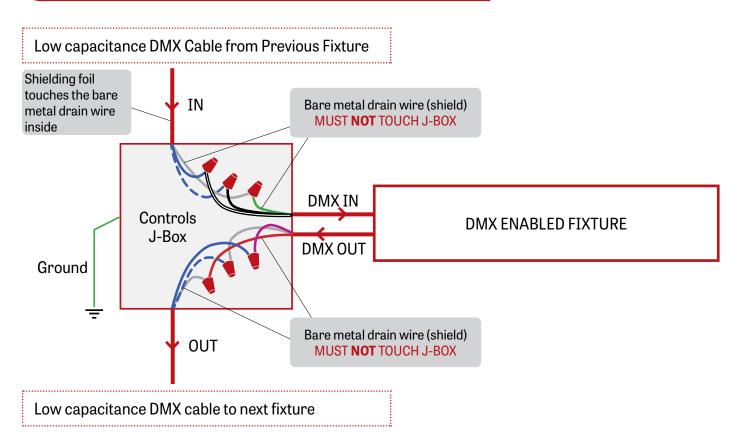




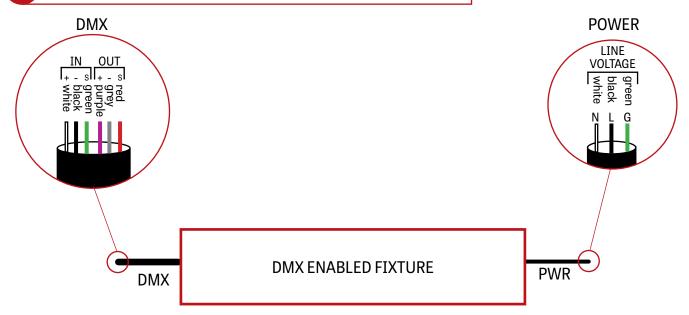
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PENDANT DIRECT
CHROMAWERX - SOLA AND DUO

2 J-BOX DMX DAISY CHAIN DETAIL



3 DMX CONNECTION PENDANT & WALL

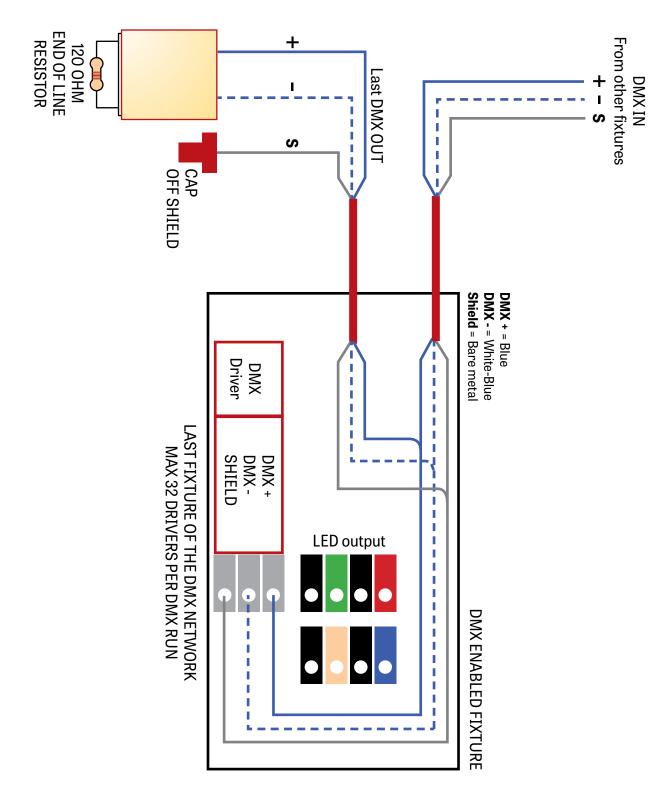


POP COLOR SQUARE 1x1 (



PENDANT DIRECT
CHROMAWERX - SOLA AND DUO

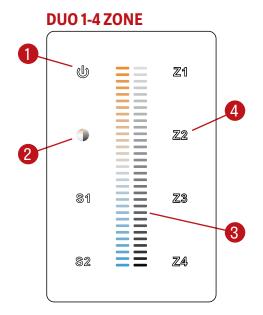
4 DMX LAST FIXTURE DETAIL







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 choose between color/brightness. When Blue: brightness is selected, when

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.

(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:

1 Warm 2 Cool



