

POP COLOR ROUND 24



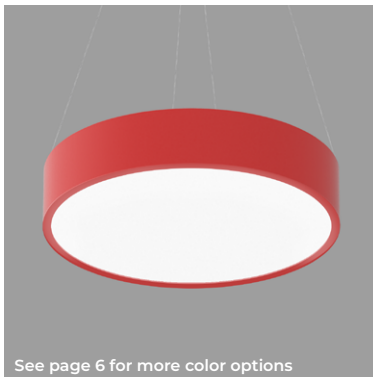
LUMENWERX

PENDANT DIRECT/INDIRECT
CHROMAWERX - SOLA AND DUO



Project: _____

Type: _____



See page 6 for more color options

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 111 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.



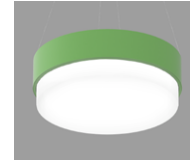
Flush lens



2" regressed lens



1" drop lens



2" drop lens



3" drop lens



4" drop lens

Order Guide

Up to 111 lm/W performance

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

INDIRECT LUMEN PACKAGE	VOLTAGE	DRIVER ²	ELECTRICAL	MOUNTING
			1	5WAC36
750 - Min. low output 750lm 900 - Medium output 900lm 1100 - Max. high output 1100lm #### - Other required lm	120 - 120V 277 - 277V UNV - 120V-277V	SOLA SD1 - Single 0-10V input DUO DMX ³ - DMX, to specify see pages 8 to 13 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	5WAC36 - Power 5" white canopy (36" aircraft cable) For all other options refer to our Pendant Mounting Guide

POWER CORD COLOR	FINISH	OPTIONS
BPC - Black power cord WPC - White power cord	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

⁴Available with DMX only. For more information, see pages 8 to 13, or consult factory.

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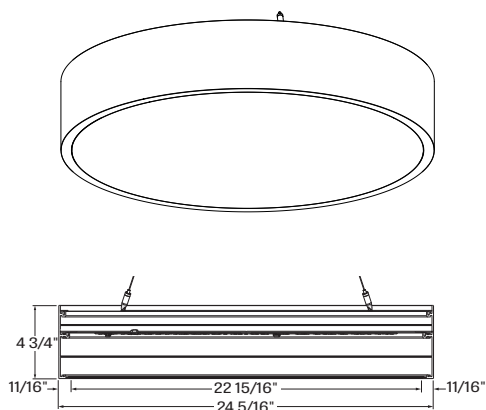


LUMENWERX

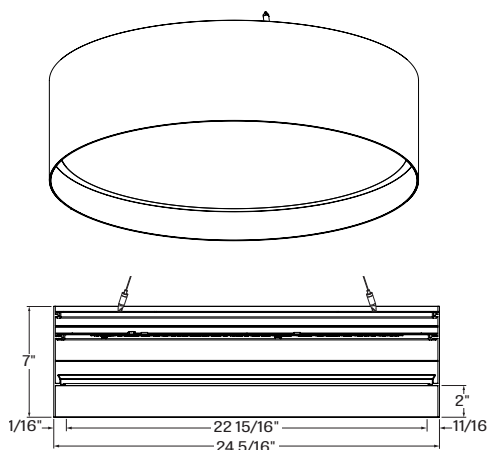
PENDANT DIRECT/INDIRECT
CHROMAWERX - SOLA AND DUO

Dimensions

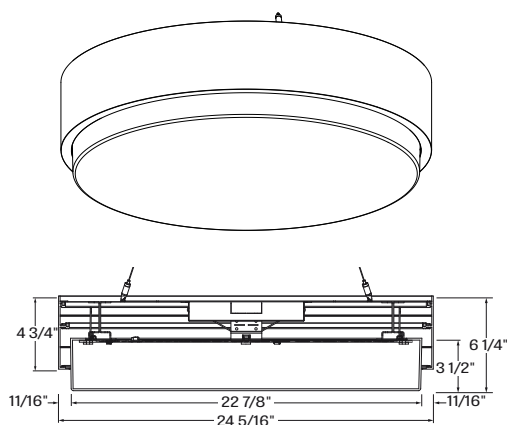
POP COLOR FH - FLUSH



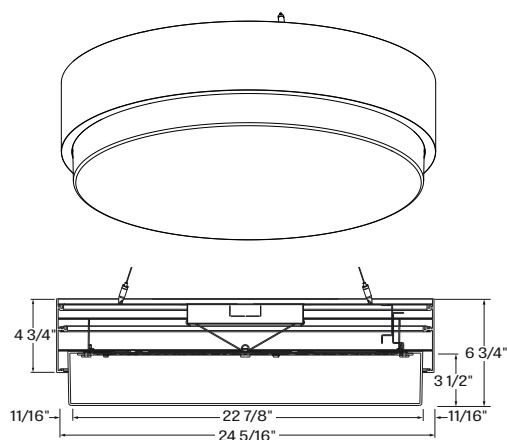
POP COLOR 2R - 2" REGRESSED



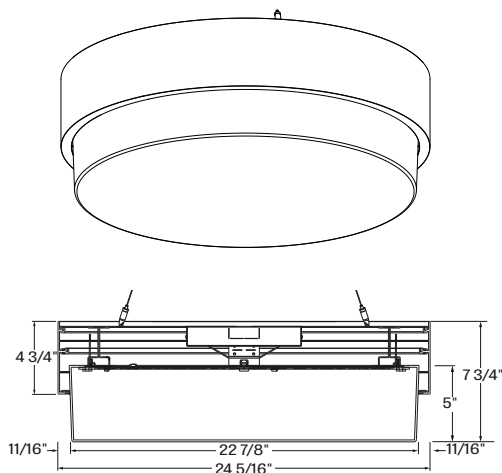
POP COLOR 1D - 1" DROP



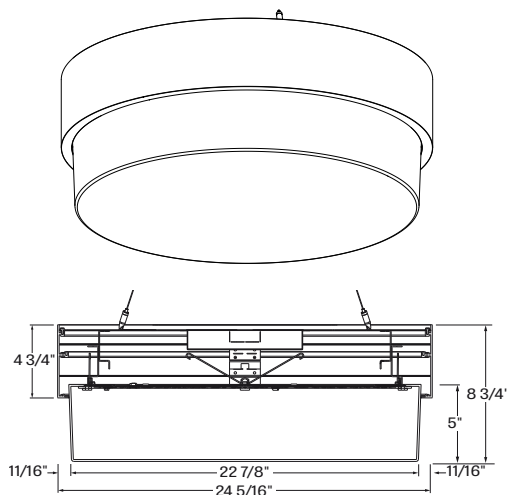
POP COLOR 2D - 2" DROP



POP COLOR 3D - 3" DROP



POP COLOR 4D - 4" DROP



POP COLOR ROUND 24



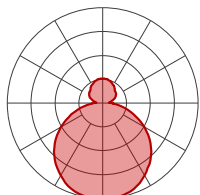
LUMENWERX

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CHROMAWERX - SOLA AND DUO

Photometrics

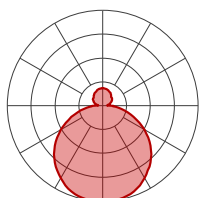
Performance at Indirect 750 Lumen

2500 LUMEN AT 80 CRI - LOW OUTPUT



LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Low output	2700K	32	2500	750	3250	102
Low output	3000K	31	2500	750	3250	104
Low output	3500K	30.5	2500	750	3250	107
Low output	4000K	29.5	2500	750	3250	111
Low output	5000K	28	2500	750	3250	116
Low output	6500K	28.5	2500	750	3250	115

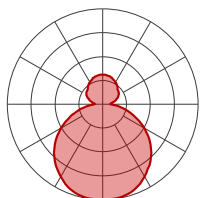
3500 LUMEN AT 80 CRI - MEDIUM OUTPUT



LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Medium output	2700K	42.5	3500	750	4250	100
Medium output	3000K	41.5	3500	750	4250	102
Medium output	3500K	40.5	3500	750	4250	105
Medium output	4000K	39	3500	750	4250	109
Medium output	5000K	37.5	3500	750	4250	113
Medium output	6500K	37.5	3500	750	4250	113

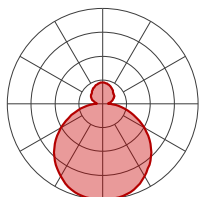
Performance at Indirect 900 Lumen

2500 LUMEN AT 80 CRI - LOW OUTPUT



LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Low output	2700K	33.5	2500	900	3400	102
Low output	3000K	32.5	2500	900	3400	104
Low output	3500K	32	2500	900	3400	107
Low output	4000K	30.5	2500	900	3400	111
Low output	5000K	29.5	2500	900	3400	116
Low output	6500K	29.5	2500	900	3400	115

3500 LUMEN AT 80 CRI - MEDIUM OUTPUT



LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Medium output	2700K	44	3500	900	4400	100
Medium output	3000K	43	3500	900	4400	102
Medium output	3500K	42	3500	900	4400	105
Medium output	4000K	40.5	3500	900	4400	109
Medium output	5000K	39	3500	900	4400	113
Medium output	6500K	39	3500	900	4400	113

POP COLOR ROUND 24

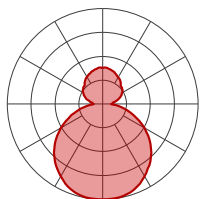


LUMENWERX

PENDANT DIRECT/INDIRECT
CHROMAWERX - SOLA AND DUO

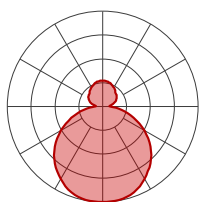
Performance at Indirect 1100 Lumen

2500 LUMEN AT 80 CRI - LOW OUTPUT



LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Low output	2700K	35.5	2500	1100	3600	102
Low output	3000K	34.5	2500	1100	3600	104
Low output	3500K	33.5	2500	1100	3600	108
Low output	4000K	32.5	2500	1100	3600	111
Low output	5000K	31	2500	1100	3600	116
Low output	6500K	31.5	2500	1100	3600	115

3500 LUMEN AT 80 CRI - MEDIUM OUTPUT



LED OUTPUT	COLOR TEMP	WATTS	DIR. LUMENS	IND. LUMENS	TOTAL NOMINAL DELIVERED LUMENS	EFFICACY LPW
Medium output	2700K	46	3500	1100	4600	100
Medium output	3000K	45	3500	1100	4600	102
Medium output	3500K	44	3500	1100	4600	105
Medium output	4000K	42	3500	1100	4600	109
Medium output	5000K	40.5	3500	1100	4600	113
Medium output	6500K	40.5	3500	1100	4600	113



PENDANT DIRECT/INDIRECT CHROMAWERX - SOLA AND DUO

Technical Specifications

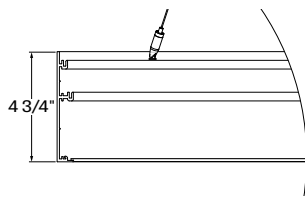
OPTIC

Uniform Efficiency Lambertian Optic (ULO)

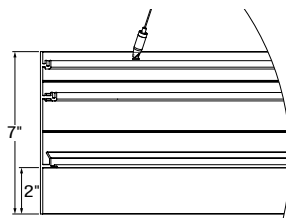
Made of formed impact modified white PMMA, the optic provides an even light distribution with up to 88% transmission. Its unique enclosed shell design protects LEDs against Electrostatic Discharge and dust while its back surface project a soft glow on the mounting surface.

LENS POSITION

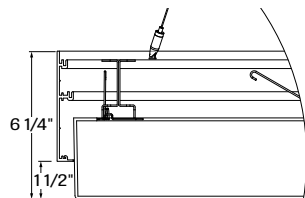
Pop Color Round 24 pendant is available in 6 lens configurations.



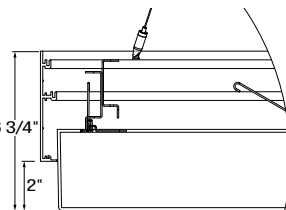
PCROPDI + FH - Flush lens



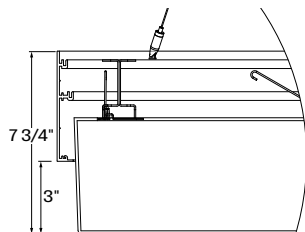
PCROPDI + 2R - 2" regressed lens



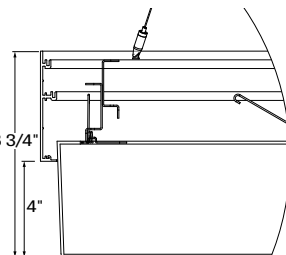
PCROPDI + 1D - 1" drop lens



PCROPDI + 2D - 2" drop lens



PCROPDI + 3D - 3" drop lens



PCROPDI + 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

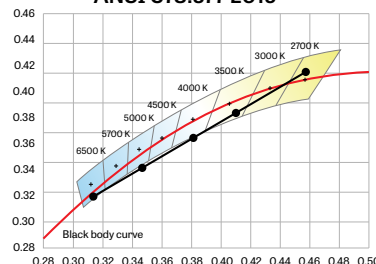
Chromawerx Sola

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.

ANSI C78.377-2015



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LUMENWERX

PENDANT DIRECT/INDIRECT 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%.

DDI

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 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 Quantum System.

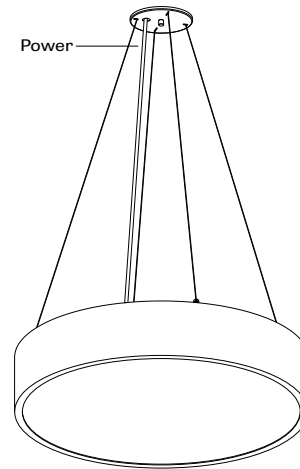
PoE

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 case-by-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.

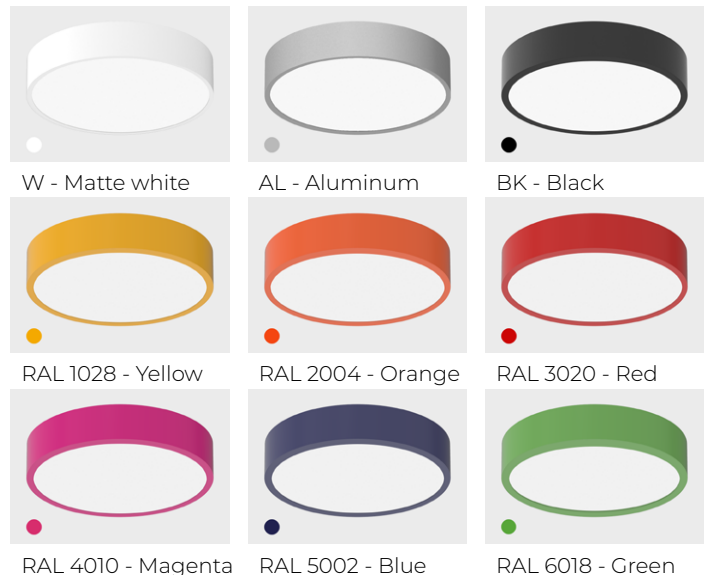
[For all other options, see our website for a detailed Pendant Mounting Guide](#)



FINISH

Interior - 95%, reflective, matte white powder coating

Exterior - Side trim is offered in a range of vibrant color powder coating.



POP COLOR ROUND 24



LUMENWERX

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 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

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

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.**

Please answer the following questions to help us identify your DMX network requirements.

YES

Do you require a wall controller provided by Lumenwerx?

NO

DMX control system supplied by others. Lumenwerx will supply DMX-enabled fixtures with default DMX addressing. See following pages for technical DMX informations. ✓

DMX controller supplied by Lumenwerx

How many zones do you have?
A zone consists of one or more luminaires behaving identically.



1 Zone



2 Zones

How to calculate the required number of drivers:

per 4' fixture

Driver
1x driver
Direct only

per 4' fixture

Driver Driver
2x driver
Direct high output

To Calculate
of drivers

1 - 4 Zones

5 or more Zones

Do you have more than
32 drivers in total?

NO

YES

Order a standard Lumenwerx wall controller.

WALL CONTROLLER

WCW - wall controller white
WCB - wall controller black

Add the control code at the end of your order code.

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

Refer to your DMX integrator for the installation. ✓

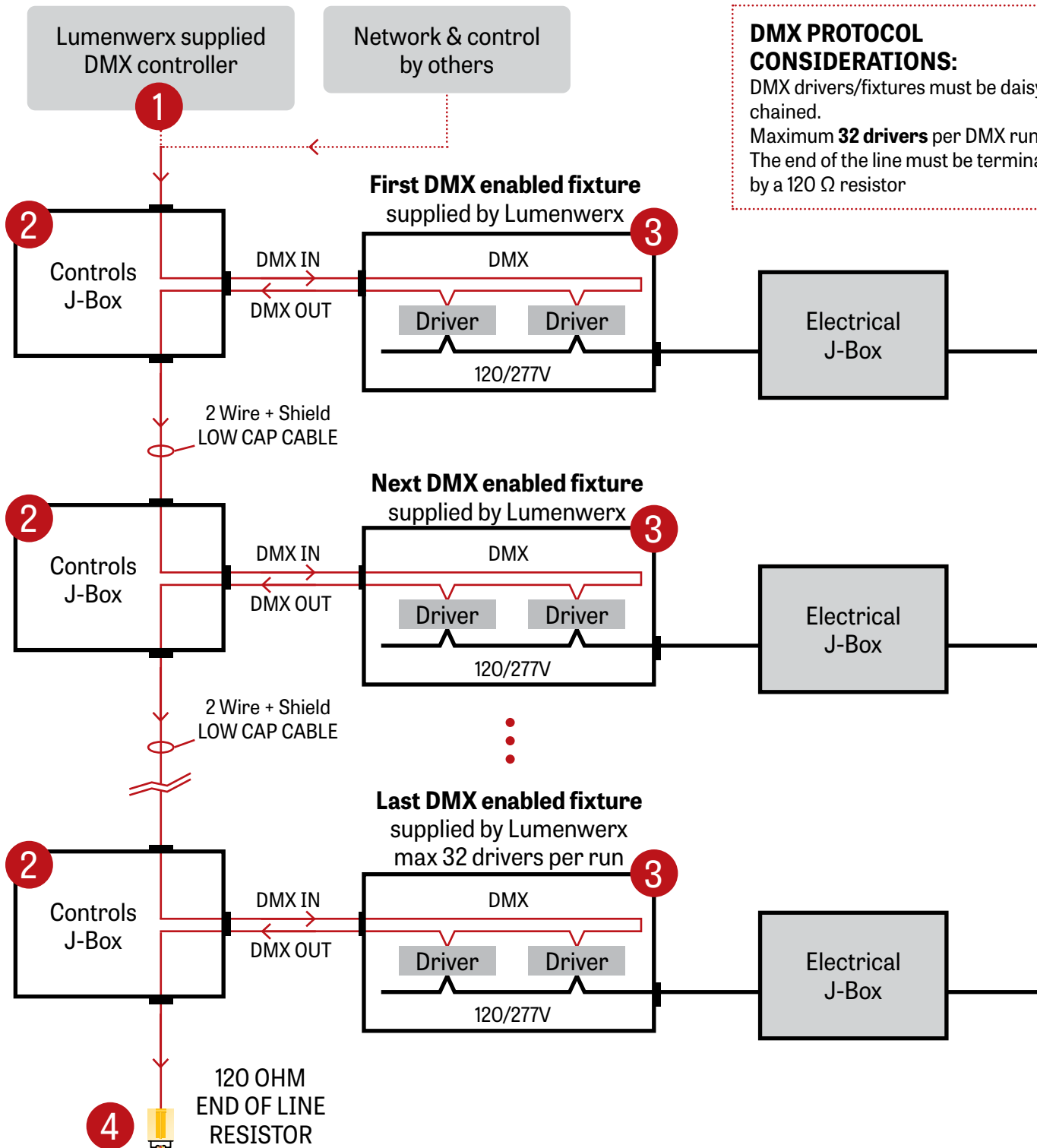
Subject to factory evaluation. Please contact our controls specialist at controls@lumenwerx.com. Additional cost and equipment will be required. ✓

Subject to factory evaluation and approval. Please contact our controls specialist at controls@lumenwerx.com. Additional cost and equipment will be required. ✓



PENDANT DIRECT/INDIRECT
CHROMAWERX - SOLA AND DUO

GENERIC DMX NETWORK ARCHITECTURE



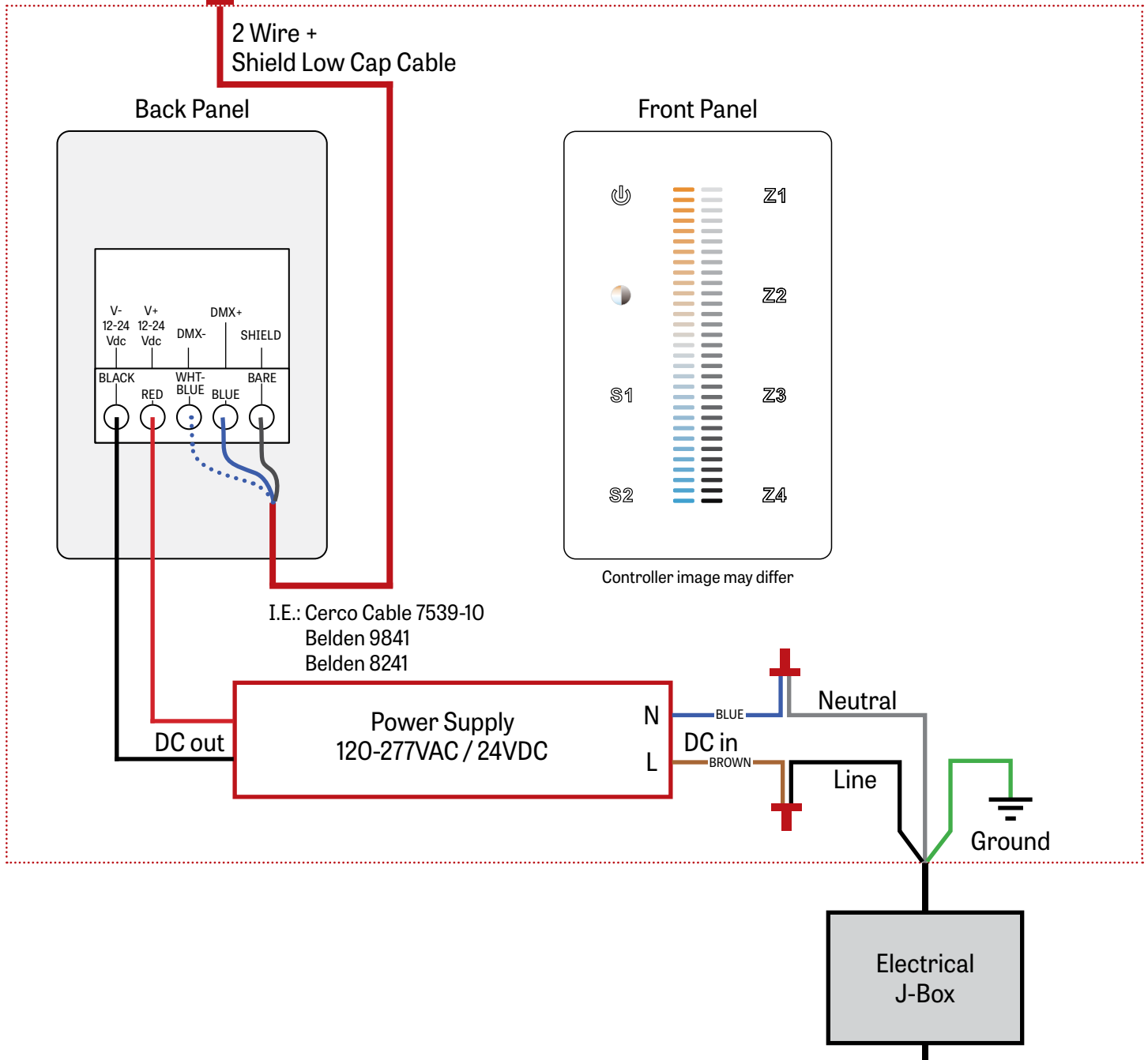


PENDANT DIRECT/INDIRECT
CHROMAWERX - SOLA AND DUO

1 LUMENWERX SUPPLIED DMX CONTROLLER

To the first fixture

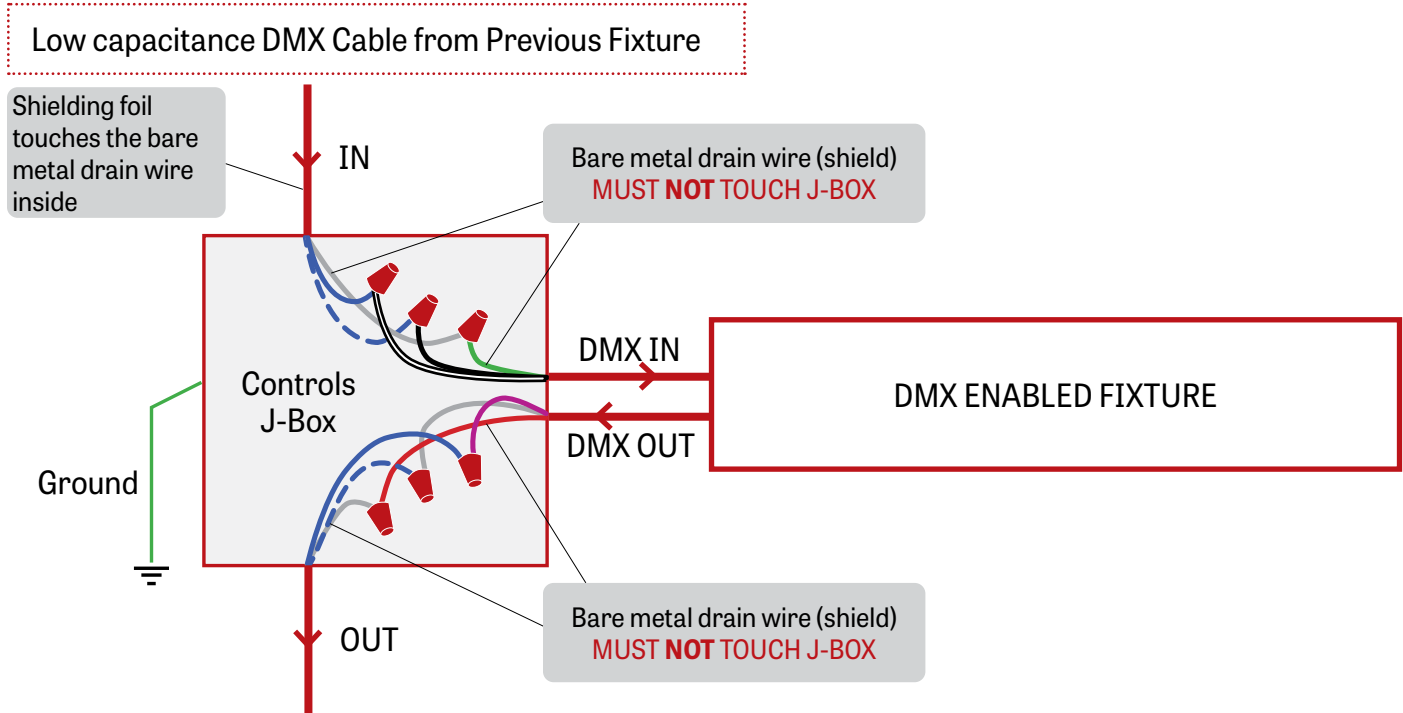
WALL BOX SUPPLIED BY OTHERS





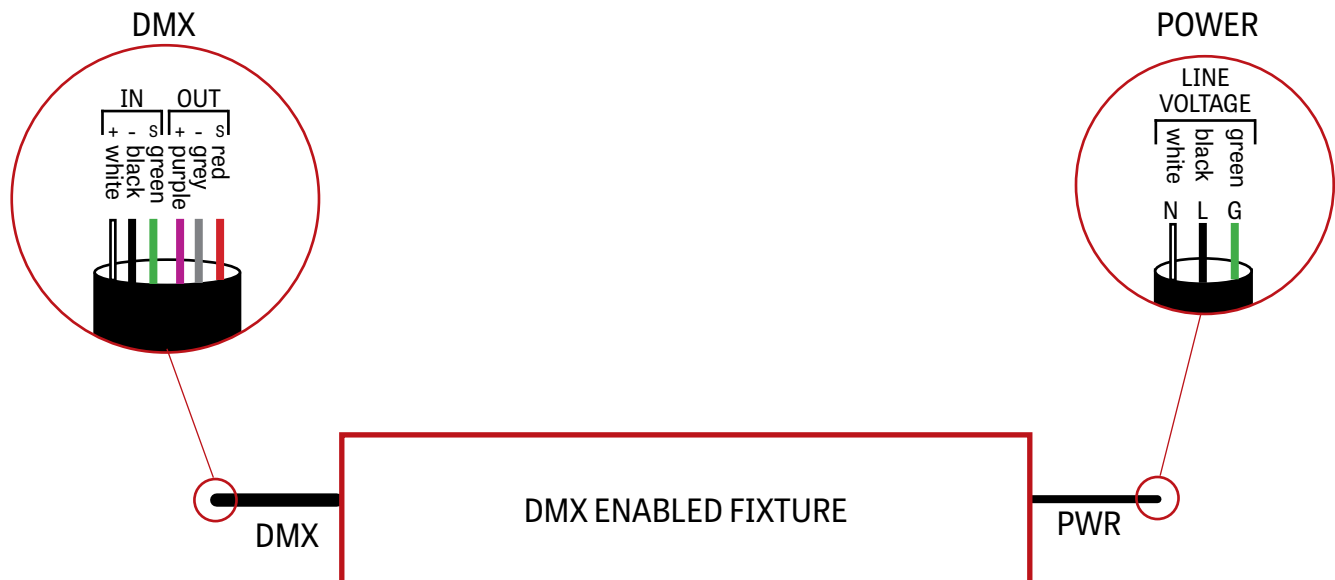
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CHROMAWERX - SOLA AND DUO

2 J-BOX DMX DAISY CHAIN DETAIL



Low capacitance DMX cable to next fixture

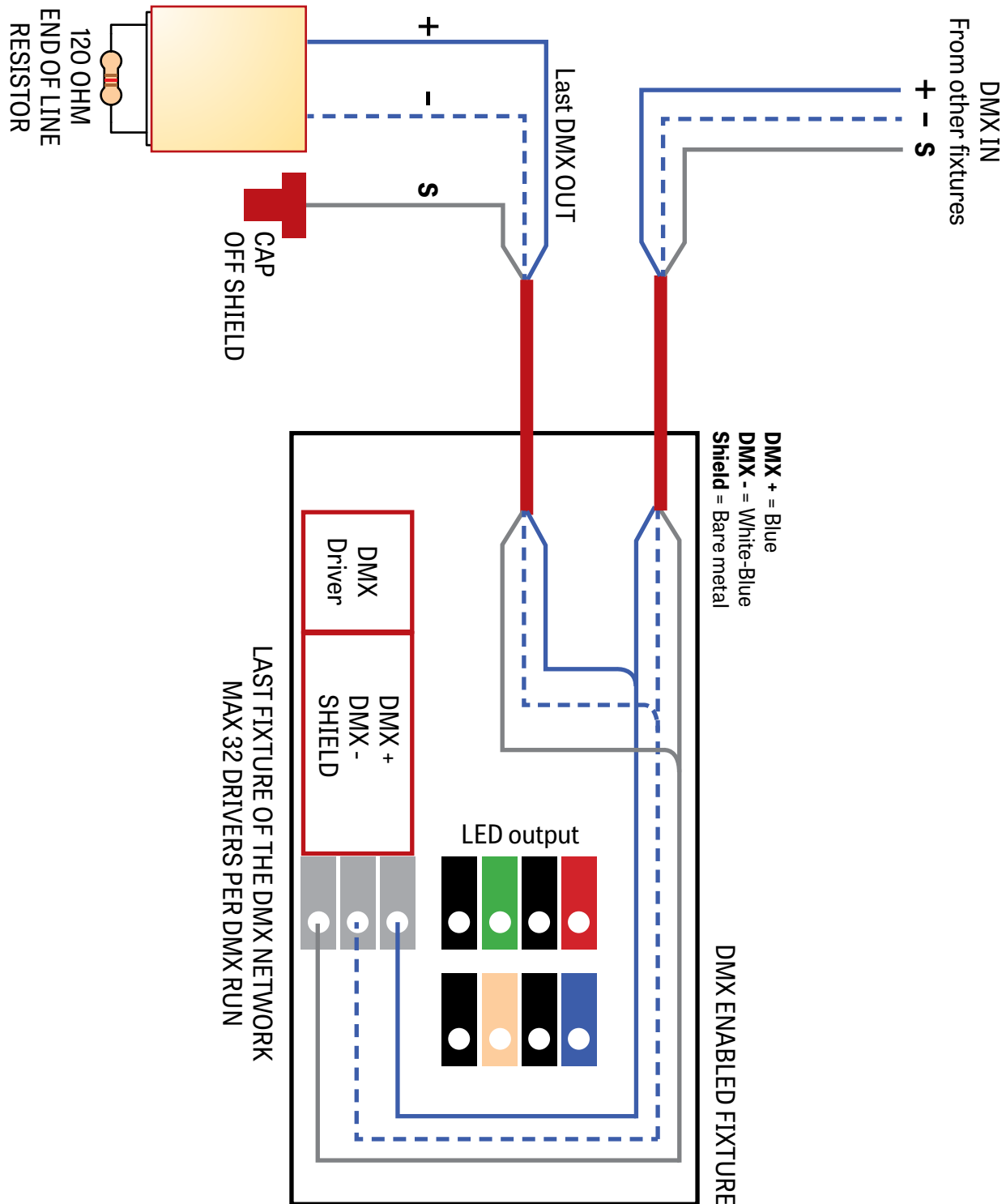
3 DMX CONNECTION PENDANT & WALL





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4 DMX LAST FIXTURE DETAIL

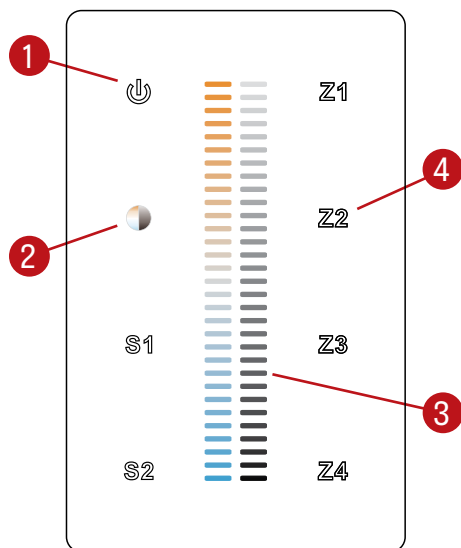




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CHROMAWERX - SOLA AND DUO

DMX WALL CONTROLLER

DUO 1-4 ZONE



(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