

MEDIUS LED

PENDANT DIRECT/INDIRECT

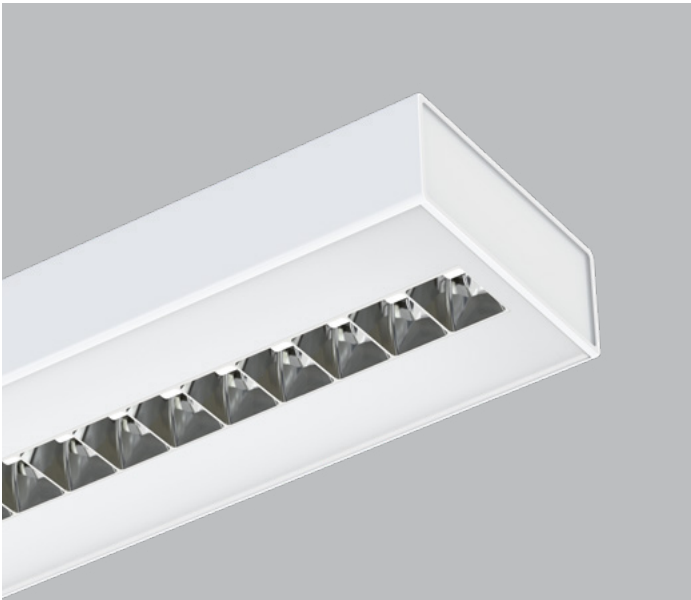
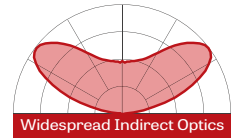


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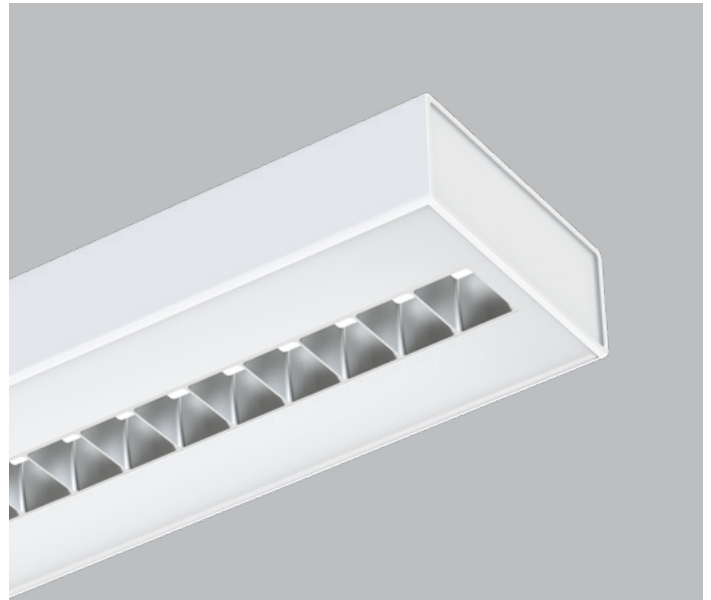
CHROMAWERX TUNABLE WHITE AND DIM TO WARM

DESCRIPTION

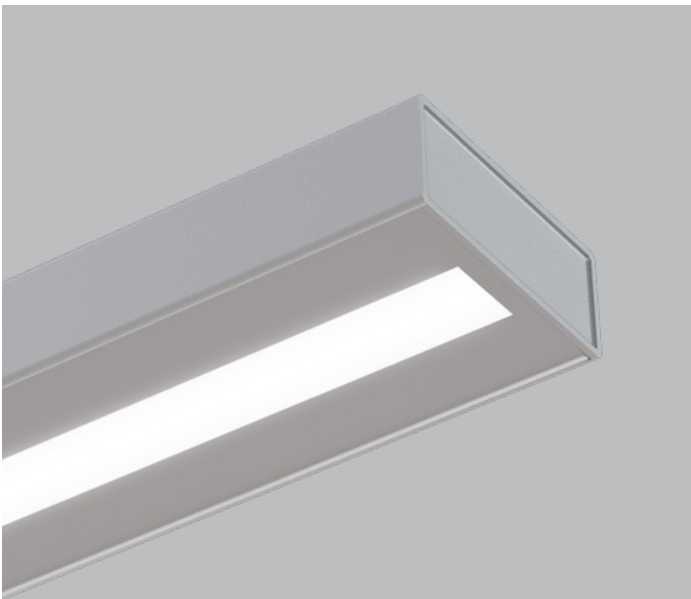
Within its compact 1 15/16" x 4 3/4" profile, Medius supports a choice of outstanding optics for high performance direct/indirect lighting. The result is excellent visual comfort with UGR better than 16, smooth ceiling uniformity, and efficacy up to 116 LPW. A new sliding cable arrangement simplifies installation in existing spaces. Medius configures as individual luminaires or continuous runs and features the full range of electrical and control options. For static white see separate specification sheet.



SPL - Specular parabolic louver



MPL - Matte parabolic louver



HLO - High-Efficiency Lambertian Optic

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CHROMAWERX TUNABLE WHITE AND DIM TO WARM

IMPORTANT: a qualified DMX integration consultant is required to ensure proper installation and function of any DMX network

PROJECT: _____
 TYPE: _____
 NOTES: _____

ORDER GUIDE

up to 116 lm/w performance

MEDPDI	WIO	LED	CRI	DIRECT LUMEN PACKAGES
LUMINAIRE ID	DIRECT OPTICS	INDIRECT OPTICS	LIGHT SOURCE	
MEDPDI - Medius pendant direct/indirect	SPL - Specular parabolic louver MPL - Matte parabolic louver HLO - High-Efficiency Lambertian Optic	WIO - widespread indirect optics	LED - high performance LED	80 - 80CRI 90 - 90CRI
				350 - min. eco low output 350lm/ft 500 - low output 500lm/ft 750 - medium output 750lm/ft 1000 - max. high output 1000lm/ft #### - other required lm/ft

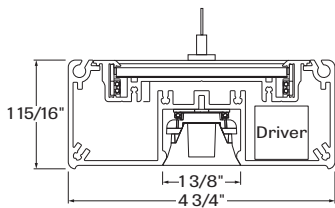
INDIRECT LUMEN PACKAGES	CHROMAWERX	LUMINAIRE LENGTH	VOLTAGE	DRIVER
500 - min. low output 500lm/ft 750 - medium output 750lm/ft 1000 - max. high output 1000lm/ft #### - other required lm/ft	DUO - tunable white 2 channel control 27k to 65k SOLA - dim to warm single channel control 22k to 35k	Available sections - 4', 8' & 12' #FT - nominal length in feet (2' increments only) Continuous Run - for luminaires over 12' Minimum Individual section 4'	120 - 120V 277 - 277V	DMX - to specify see pages 7 to 12 DA - Dali (duo only) local on-site commissioning is required O-10 - Single 0-10V input (Sola) or dual 0-10V input for CCT/Intensity (Duo) PSQO - Lutron T-Series 1% Tunable White

1	ELECTRICAL	MOUNTING	FINISH	OPTIONS
1 - 1 circuit		53WAC36 - Fixed cables suspension power 5" + non power 3" white canopy (36" air craft cable) SC53WAC36 - Sliding cables suspension , power 5" + non power 3" white canopy (36" air craft cable) 55WSW18 - power 5" + non power 5" white canopy & stem (18" stem) For all other options refer to our Pendant Mounting Guide	W - matte white AL - aluminum CF# - custom finish specify RAL#	FU - fuse TB# - T-bar caddy clip specify grid size TG# - Tegular caddy clip specify grid size ST - Screw Slots caddy clip CU - custom

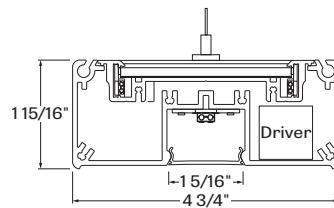
DMX WALL CONTROLS
To specify see pages 7 to 12

See page 2 for ordering code detailed information

CROSS SECTION



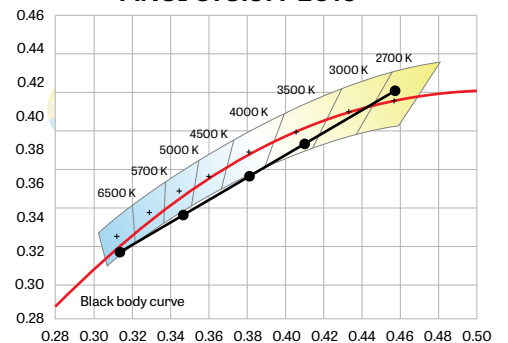
MEDPDI - SPL & MPL
Specular & Matte parabolic louver



MEDPDI - HLO
High Efficiency Lambertian Optic



ANSI C78.377-2015



CHROMAWERX TUNABLE WHITE AND DIM TO WARM

DIRECT OPTICS

Parabolic Louvers (SPL and MPL)

Parabolic louvers provide excellent shielding and a pleasing crisp visual texture. The precisely molded louvers consist of 1" deep blades and side reflectors with shielding of 50° lengthwise and 45° cross wise. Precise brightness control provides excellent UGR and satisfies the recommendations of ANSI IES RP1-12 for intensive VDT viewing with practical spacing criteria of 1.1. Choose from Specular (SPL) or Matte (MPL) louver finish.

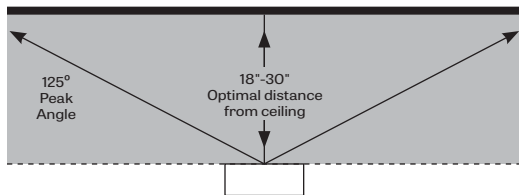
HIGH EFFICIENCY LAMBERTIAN OPTIC (HLO)

The High-Efficiency Lambertian Optic (HLO) shielding of diffusing 0.075" thick acrylic with up to 88% transmission and good source obscuration is combined with matte white side reflectors to create an efficient optical chamber with uniform luminosity. Luminaire brightness is controlled by the flux-to-shielding area ratio. For visual comfort, avoid high lumen output unless Medius is installed in a high ceiling application. Spacing criteria: 1.2 (longitudinal) x 1.1 (lateral).

INDIRECT OPTICS

Widespread Indirect Optics (WIO)

The Widespread Indirect Optic (WIO) consists of side-mounted LED arrays, coupled to an optical-grade acrylic light guide engraved with micro-structure optics that extract light into into the desired "batwing" distribution. Peak intensity hits at 125° while suppressing direct uplight. Peak-to-zenith intensity ratio is 2:1, outstanding for a narrow luminaire. WIO produces noticeably smoother ceiling brightness than a typical lambertian uplight distribution, permitting generally wider spacing as well. The entire optical assembly mounts in a cartridge, assuring consistent optical alignment. The cartridge snaps out from the top of the luminaire for field service and connects to the driver with a quick-connect harness.



LIGHT SOURCE - LED

PERFORMANCE PER 4' AT 4000K (WIO - Indirect 2000 Lumens Output)

SPL

LED output	Color Temp	Watts	Direct Lumens SPL	Indirect Lumens WIO	Total Nominal Delivered Lumens	Efficacy LPW
eco low output	4000K	29.5	1400	2000	3400	116
low output	4000K	35	2000	2000	4000	115
medium output	4000K	44	3000	2000	5000	113
high output	4000K	54.5	4000	2000	6000	110

MPL

LED output	Color Temp	Watts	Direct Lumens MPL	Indirect Lumens WIO	Total Nominal Delivered Lumens	Efficacy LPW
eco low output	4000K	30.5	1400	2000	3400	112
low output	4000K	36.5	2000	2000	4000	110
medium output	4000K	46.5	3000	2000	5000	107
high output	4000K	58.5	4000	2000	6000	103

Lumen Adjustment Factors

2700K	0.917
3000K	0.959
3500K	0.988
4000K	1.000
6500K	1.053

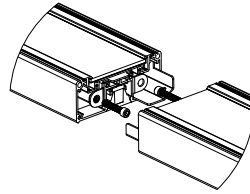
Custom linear array of alternating color temperature mid-flux LED's are mounted directly to the housing for optimal thermal performance. For the Duo products, a color temperature range from 2700K-6500K is achievable with color points on or below the black body curve. For the Sola products, a color temperature range from 2200K-3500K 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 AND DIM TO WARM

LUMINAIRE LENGTH

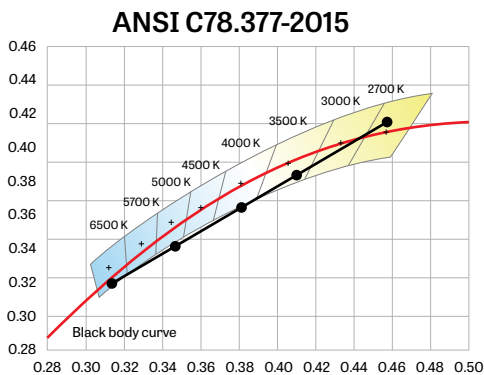
Medius is made up of standard 4, 8 and 12 foot sections that may be joined together to create longer continuous run lengths. Nominal run length must be noted in the product code. The minimum individual section available is 4 foot.

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.



joining system for Medius
Direct/Indirect

CHROMAWERX - TUNABLE WHITE



ChromaWerx Sola is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple digital or 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 is two-channel control. It uses an analog (0-10V) protocol for separate control of luminaire CCT and intensity or a digital (DMX, DALI) 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 warm (2700K) to cool (6500K) 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.

ELECTRICAL

DMX (Duo only)

Factory-set, adjustable output current, multi-channel LED driver with universal (120-277VAC) input. Using DMX wall controls (optionally supplied by LumenWerx) or an existing DMX control system, two channels of LEDs (warm-white & cool-white) are independently adjustable. Each DMX driver has multiple output channels that can be independently addressed at the factory or on-site using built-in RDM (Remote Device Management) functionality. Dimming range from 100%-0%. At maximum driver load, efficiency<89%, PF>0.9, THD<20%.

Dali (Duo Only)

Factory-set, adjustable output current LED driver with universal (120-277VAC) 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 range from 100%-0%. At maximum driver load, efficiency<86%, PF>0.9, THD<20%.

0-10V (Sola)

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%.

0-10V (Duo)

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 2700K-6500K). 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.

Access: Driver is accessible for field service by removing the upright LED and light guide cartridge

CHROMAWERX TUNABLE WHITE AND DIM TO WARM

MOUNTING OPTIONS

Fixtures can be pendant-mounted, using aircraft cables, or stem-mounted.

Unless otherwise specified, LumenWerx provides the following hardware:

Fixed Cable Suspension: aircraft cable mounts at luminaire ends or between modules in continuous runs and is secured by Griplock fastener for leveling.



53WAC36 - Fixed Cables suspensions

Sliding Cable Suspension: Two-part cable assembly slides horizontally for flexible mounting. Griplock fastener secures and levels suspension.



HS53WAC36 - Sliding Cables suspensions

For cable-mounted fixtures - 53WAC36 (5" white canopy for all power mounting point, 3" white canopy for non power mounting point, and a 36" cable)

For stem mounted fixtures - 55WSW18 (5" white canopy for all power mounting point, and non power mounting point, and a 18" white stem)

Caddy clips, if required specify under **OPTIONS**

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

FINISH

Interior - 95%, reflective matte powder coated white paint

Exterior - matte white, matte black or aluminum powder coating

Side reflector - high reflective white coating

Custom finishes are also available.

CONSTRUCTION

Housing - Extruded aluminum 0.085" nominal, matte white or aluminum powder coating

Custom finishes are also available.

End cap - Die cast Aluminum (0.95" nominal)

Joiners - Die cast Aluminum (0.95" nominal)

Reflectors - High reflective white coated bent aluminum

Parabolic louvers - Injection Molded Optical Grade Polycarbonate Vacuum Metalized, up to 95% reflective

Light guide - Clear PMMA Laminated with microstructure film formed into optical TIR/extraction form

Hanger - Chromed Griplock securely attached in end caps and/or joiners with a hex nut

Air craft cable suspension - Fixed 7x7 braids Aluminum air craft cable 0.06" thick
Cable Suspension: aircraft cable mounts at luminaire ends or between modules in continuous runs and is secured by Griplock fastener for leveling.

Sliding Cable Suspension: Two-part cable assembly slides horizontally for flexible mounting. Griplock fastener secures and levels suspension.

Stem - 0.5" diameter threaded steel tube matte white or aluminum powder coating.
Custom finishes are also available

WEIGHT

Medius 4 ft - 10.3 lbs, 4.7kg

Medius 8 ft - 19.4 lbs, 8.8kg

Medius 12 ft - 28.5 lbs, 12.9kg

CERTIFICATIONS

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

WARRANTY

For all ChromaWerx products, LumenWerx provides a three-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.

CHROMAWERX TUNABLE WHITE

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.

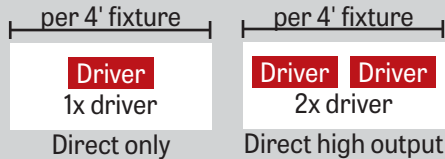


1 Zone



2 Zones

How to calculate the required number of drivers:



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.

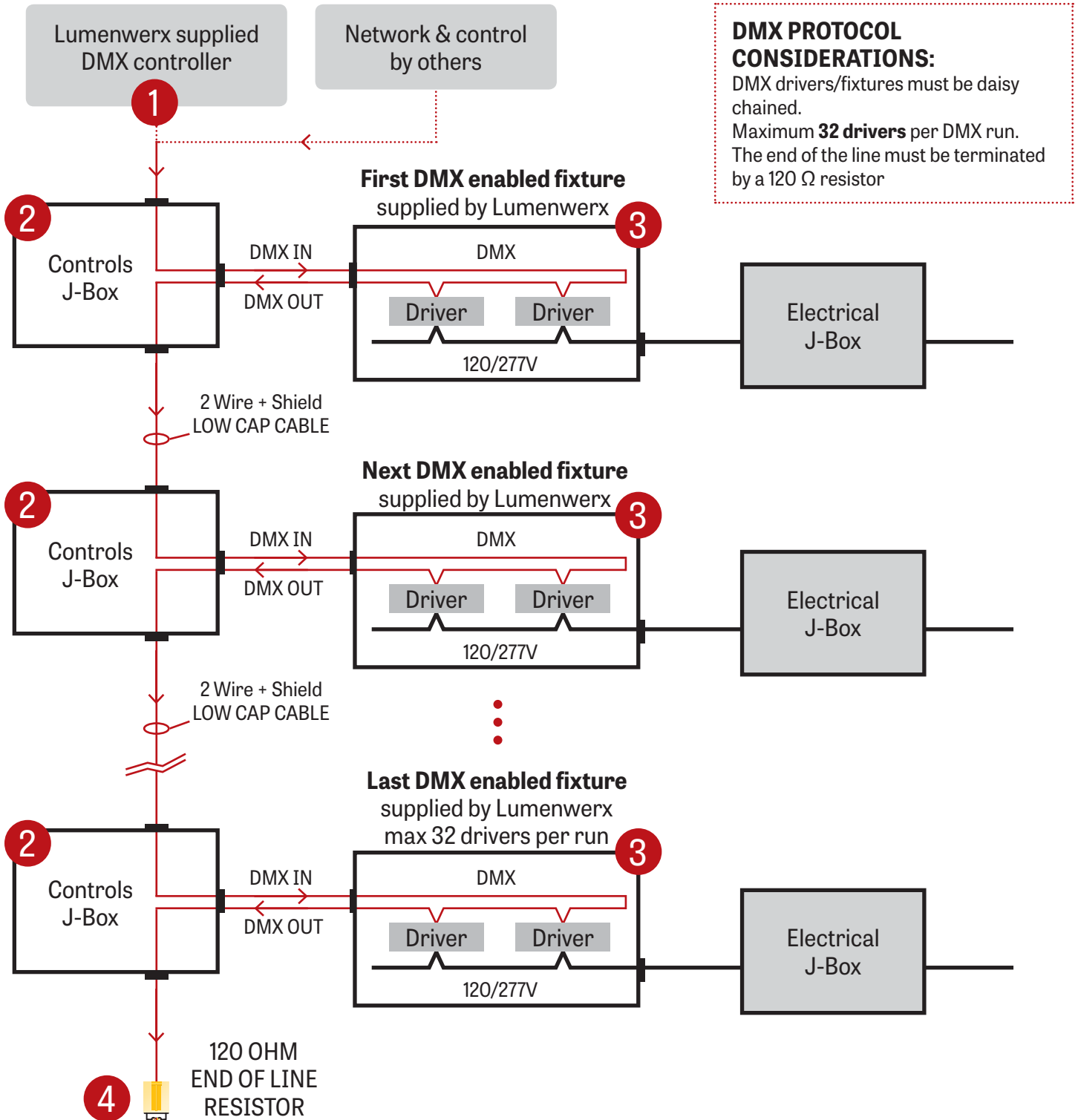
Refer to your DMX integrator for the installation. ✓

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. ✓

CHROMAWERX TUNABLE WHITE

GENERIC DMX NETWORK ARCHITECTURE

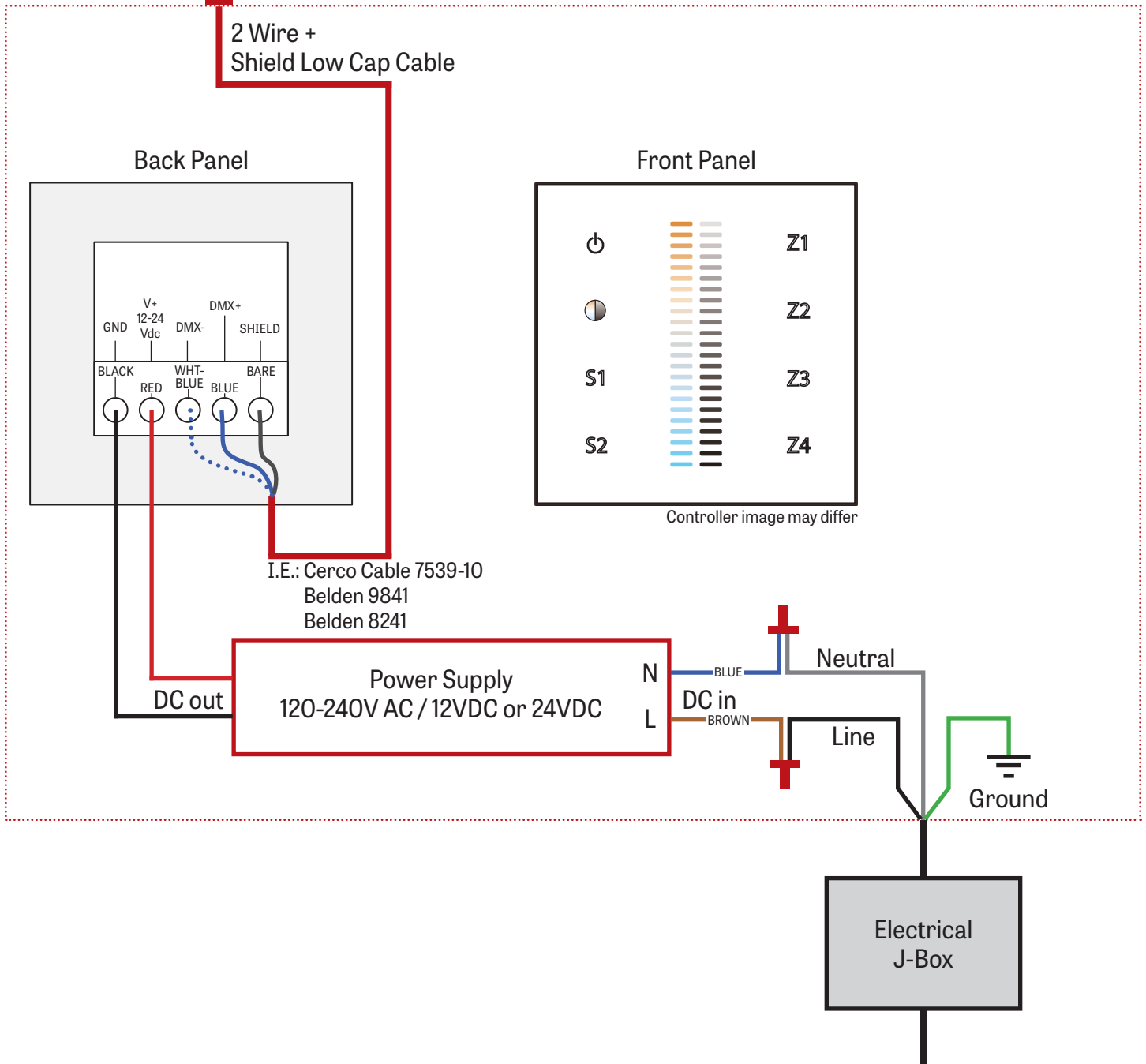


CHROMAWERX TUNABLE WHITE

1 LUMENWERX SUPPLIED DMX CONTROLLER

To the first fixture

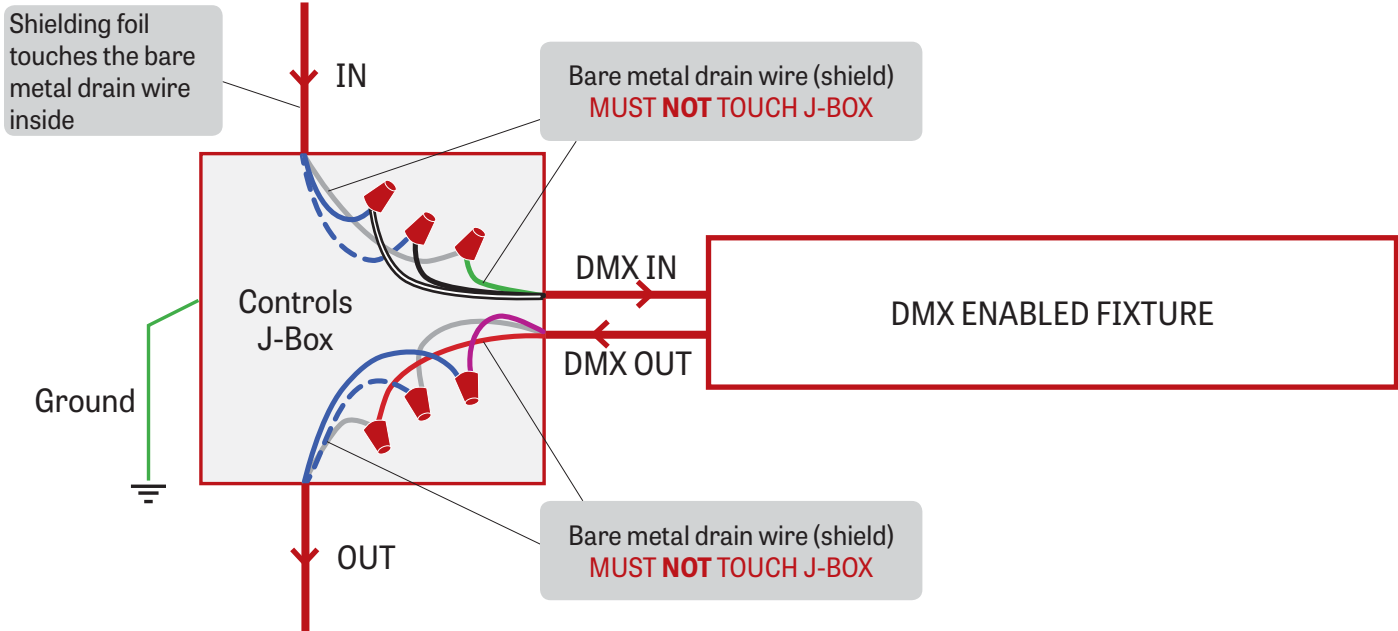
WALL BOX SUPPLIED BY OTHERS



CHROMAWERX TUNABLE WHITE

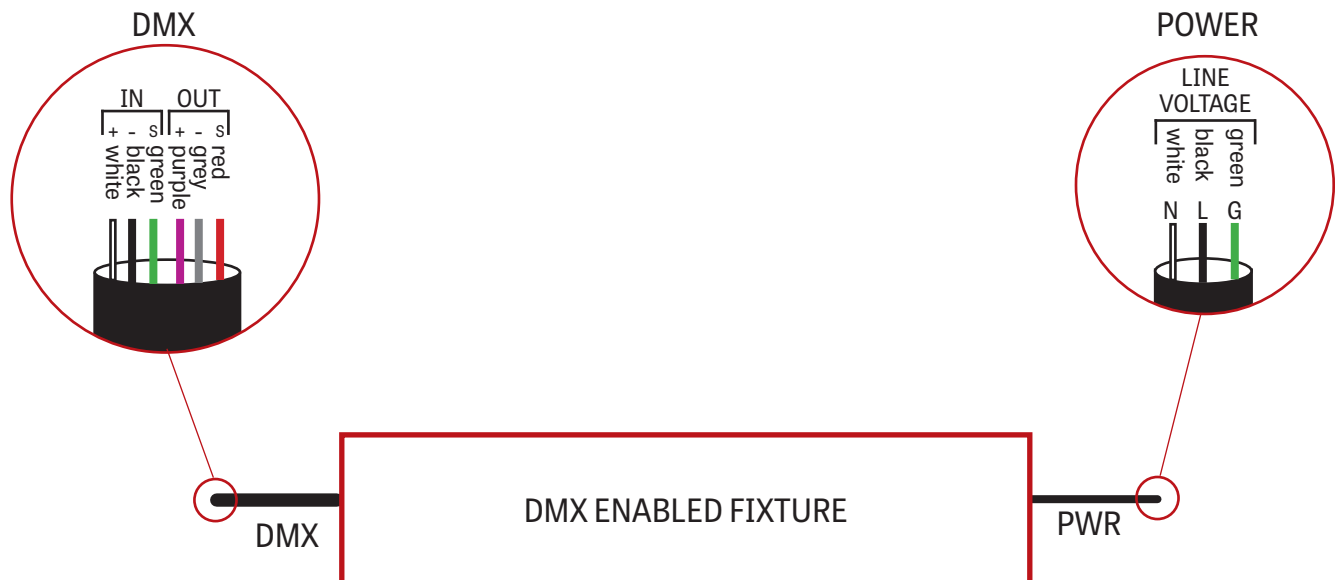
2 J-BOX DMX DAISY CHAIN DETAIL

Low capacitance DMX Cable from Previous Fixture



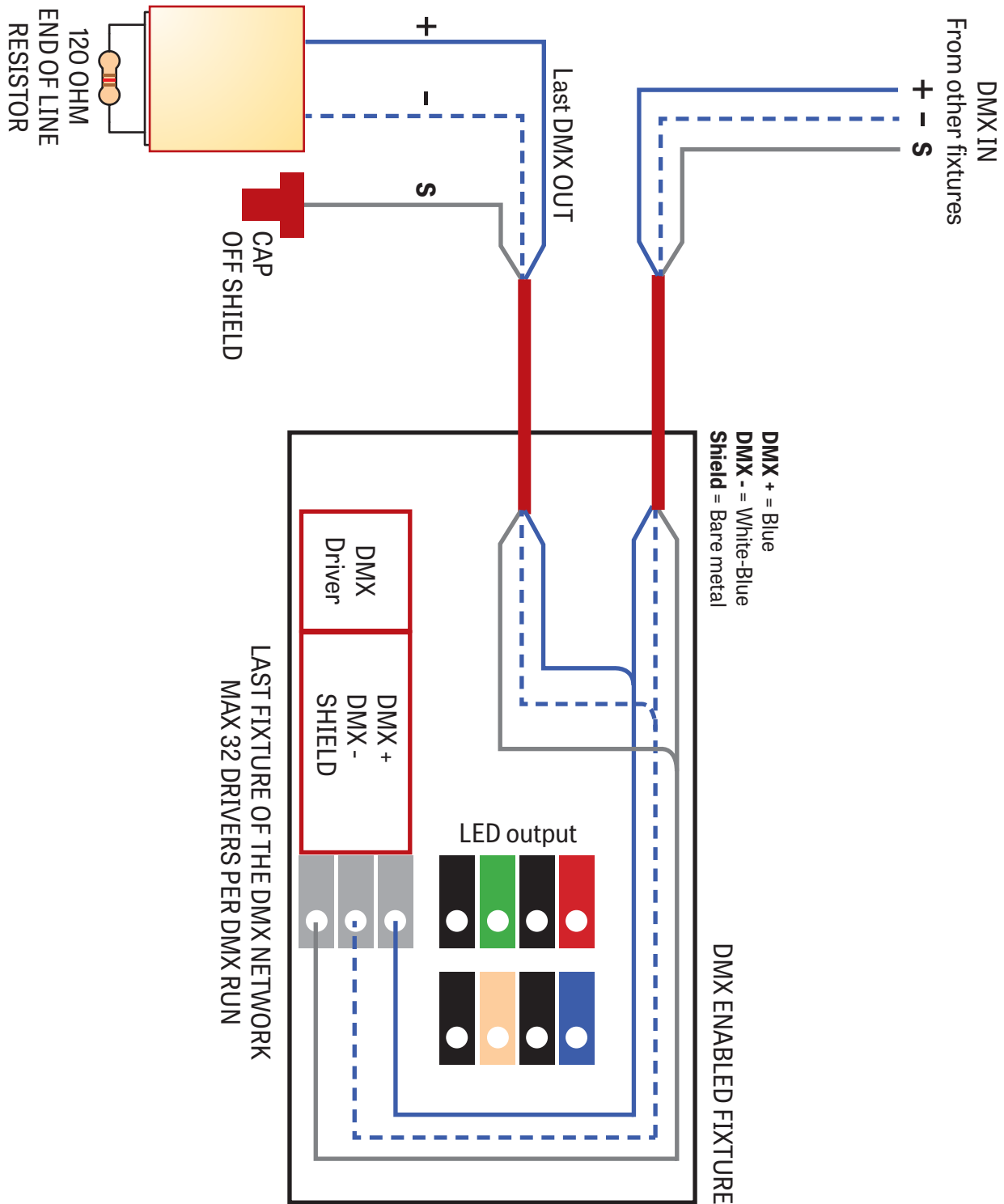
Low capacitance DMX cable to next fixture

3 DMX CONNECTION PENDANT & WALL



CHROMAWERX TUNABLE WHITE

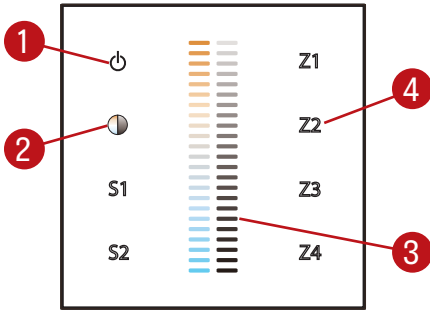
4 DMX LAST FIXTURE DETAIL



CHROMAWERX TUNABLE WHITE

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 chose between color/brightness. when Blue: brightness is selected, when Yellow: color is selected.
- (3) Slider: Depending on the mode chosen in 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

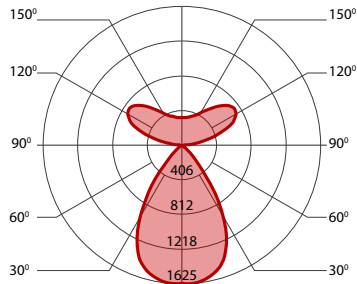
MEDIUS LED

PENDANT DIRECT/INDIRECT

CHROMAWERX TUNABLE WHITE AND DIM TO WARM

PERFORMANCE AT INDIRECT 500 LUMEN PER FOOT - SPECULAR PARABOLIC LOUVER (SPL)

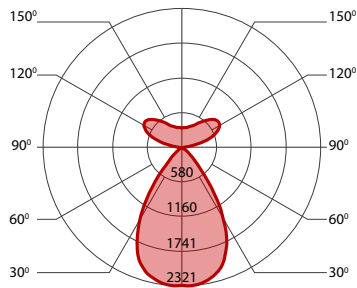
350 LUMEN AT 80CRI - ECO LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
eco low output	2200K	40.5	1400	2000	3400	84
eco low output	3000K	30.5	1400	2000	3400	112
eco low output	3500K	30	1400	2000	3400	113
eco low output	4000K	29.5	1400	2000	3400	116
eco low output	6500K	29	1400	2000	3400	118

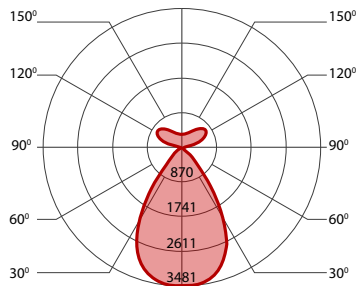
500 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
low output	2200K	49.5	2000	2000	4000	81
low output	3000K	36	2000	2000	4000	111
low output	3500K	35.5	2000	2000	4000	112
low output	4000K	35	2000	2000	4000	115
low output	6500K	34	2000	2000	4000	117

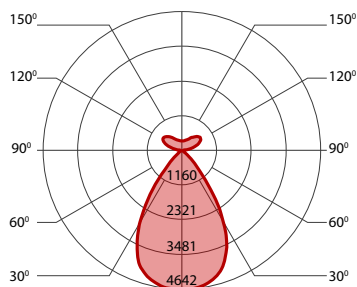
750 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
medium output	2200K	64	3000	2000	5000	78
medium output	3000K	45.5	3000	2000	5000	110
medium output	3500K	45.5	3000	2000	5000	110
medium output	4000K	44	3000	2000	5000	113
medium output	6500K	43.5	3000	2000	5000	115

1000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
high output	2200K	80	4000	2000	6000	75
high output	3000K	55.5	4000	2000	6000	108
high output	3500K	55.5	4000	2000	6000	108
high output	4000K	54.5	4000	2000	6000	110
high output	6500K	53	4000	2000	6000	113

MEDIUS LED

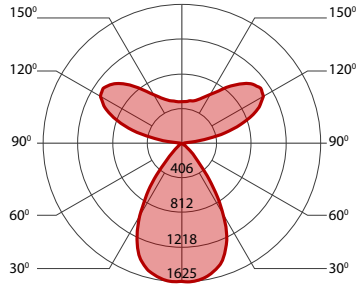
PENDANT DIRECT/INDIRECT

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CHROMAWERX TUNABLE WHITE AND DIM TO WARM

PERFORMANCE AT INDIRECT 750 LUMEN PER FOOT - SPECULAR PARABOLIC LOUVER (SPL)

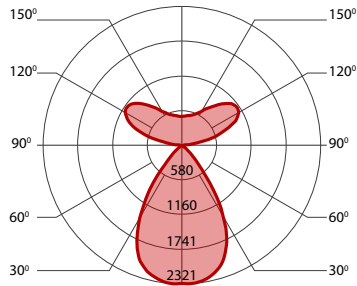
350 LUMEN AT 80CRI - ECO LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
eco low output	2200K	53.5	1400	3000	4400	82
eco low output	3000K	40.5	1400	3000	4400	109
eco low output	3500K	39.5	1400	3000	4400	111
eco low output	4000K	38.5	1400	3000	4400	114
eco low output	6500K	38.5	1400	3000	4400	115

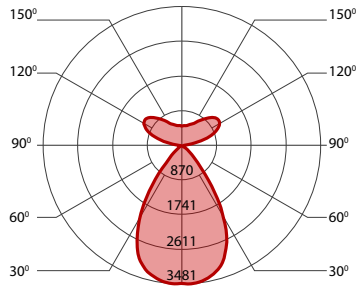
500 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
low output	2200K	61.5	2000	3000	5000	81
low output	3000K	46	2000	3000	5000	109
low output	3500K	45.5	2000	3000	5000	110
low output	4000K	44	2000	3000	5000	113
low output	6500K	43.5	2000	3000	5000	115

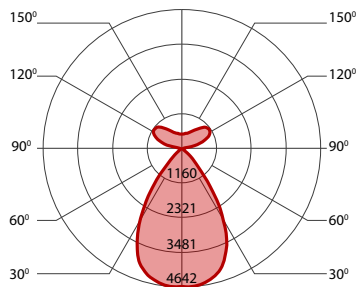
750 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
medium output	2200K	77	3000	3000	6000	78
medium output	3000K	55.5	3000	3000	6000	108
medium output	3500K	55	3000	3000	6000	109
medium output	4000K	53.5	3000	3000	6000	112
medium output	6500K	52.5	3000	3000	6000	114

1000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
high output	2200K	93.5	4000	3000	7000	75
high output	3000K	65.5	4000	3000	7000	107
high output	3500K	65.5	4000	3000	7000	107
high output	4000K	63.5	4000	3000	7000	110
high output	6500K	62.5	4000	3000	7000	112

MEDIUS LED

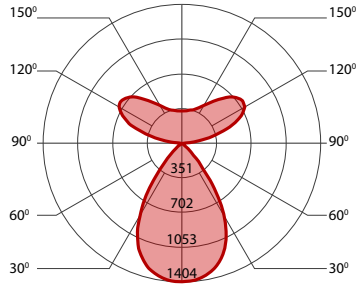
PENDANT DIRECT/INDIRECT

LUMENWERX
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CHROMAWERX TUNABLE WHITE AND DIM TO WARM

PERFORMANCE AT INDIRECT 500 LUMEN PER FOOT - MATTE PARABOLIC LOUVER (MPL)

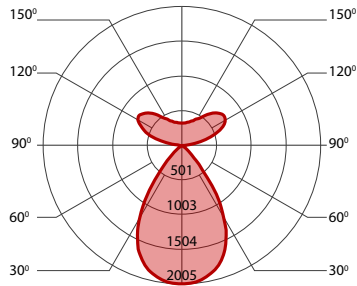
350 LUMEN AT 80CRI - ECO LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
eco low output	2200K	42.5	1400	2000	3400	80
eco low output	3000K	31.5	1400	2000	3400	108
eco low output	3500K	31	1400	2000	3400	109
eco low output	4000K	30.5	1400	2000	3400	112
eco low output	6500K	30	1400	2000	3400	113

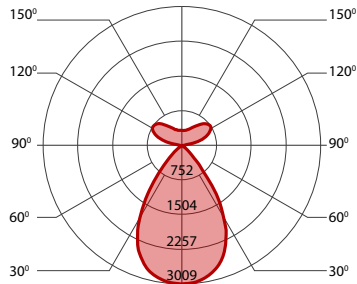
500 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
low output	2200K	52	2000	2000	4000	77
low output	3000K	37.5	2000	2000	4000	106
low output	3500K	37.5	2000	2000	4000	107
low output	4000K	36.5	2000	2000	4000	110
low output	6500K	35.5	2000	2000	4000	112

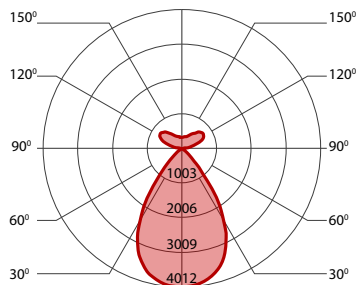
750 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
medium output	2200K	68.5	3000	2000	5000	73
medium output	3000K	48	3000	2000	5000	104
medium output	3500K	48	3000	2000	5000	104
medium output	4000K	46.5	3000	2000	5000	107
medium output	6500K	46	3000	2000	5000	109

1000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
high output	2200K	87	4000	2000	6000	69
high output	3000K	59.5	4000	2000	6000	101
high output	3500K	59.5	4000	2000	6000	101
high output	4000K	58.5	4000	2000	6000	103
high output	6500K	56.5	4000	2000	6000	106

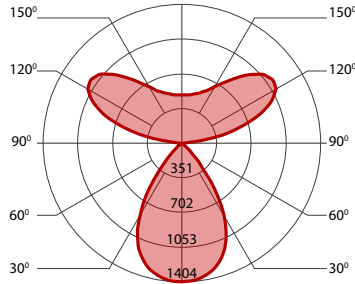
MEDIUS LED

PENDANT DIRECT/INDIRECT

CHROMAWERX TUNABLE WHITE AND DIM TO WARM

PERFORMANCE AT INDIRECT 750 LUMEN PER FOOT - MATTE PARABOLIC LOUVER (MPL)

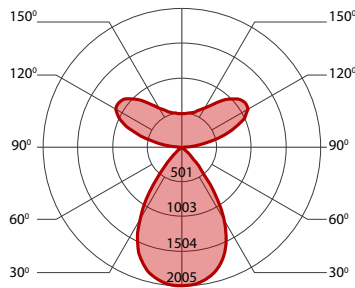
350 LUMEN AT 80CRI - ECO LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
eco low output	2200K	55.5	1400	3000	4400	79
eco low output	3000K	41.5	1400	3000	4400	106
eco low output	3500K	40.5	1400	3000	4400	108
eco low output	4000K	40	1400	3000	4400	110
eco low output	6500K	39.5	1400	3000	4400	112

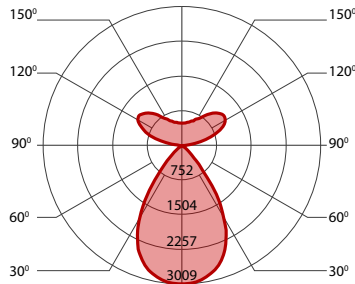
500 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
low output	2200K	65	2000	3000	5000	77
low output	3000K	47.5	2000	3000	5000	105
low output	3500K	47	2000	3000	5000	106
low output	4000K	46	2000	3000	5000	109
low output	6500K	45	2000	3000	5000	111

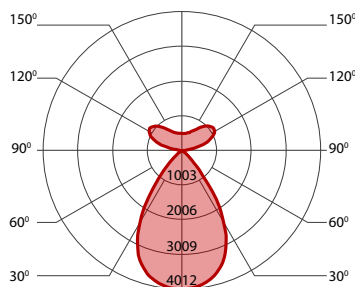
750 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
medium output	2200K	81	3000	3000	6000	74
medium output	3000K	58.5	3000	3000	6000	103
medium output	3500K	57.5	3000	3000	6000	104
medium output	4000K	56	3000	3000	6000	107
medium output	6500K	55.5	3000	3000	6000	108

1000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE PER 4'

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
high output	2200K	100	4000	3000	7000	70
high output	3000K	69.5	4000	3000	7000	101
high output	3500K	68.5	4000	3000	7000	102
high output	4000K	67.5	4000	3000	7000	104
high output	6500K	66	4000	3000	7000	106