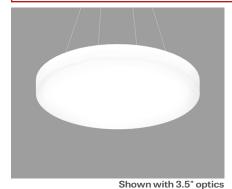


PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE AND DIM TO WARM

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





PROJECT:	
TYPE:	

DESCRIPTION

POP Core features a simple, uniformly luminous diffuser and delivers up to 129 LPW. The diffuser and light engine form a fully enclosed unit with no exposed hardware. POP Core is an ideal vehicle for ChromaWerx white tuning in education, office, and healthcare applications where modular luminaires are used.



up to 129 lm/w performance

ORDER GUIDE

36IN	ULO		LED		
SIZE	OPTICS	HEIGHT	LIGHT SOURCE	CRI	DIRECT LUMEN PACKAGES
36IN - Ø 36"	ULO - Uniform Lambertian Optic	3H - 3.5" optic 5H - 5" optic	LED - high performance LED	80 - 80CRI 90 - 90CRI	4000 - min. low output 4000lm 5500 - medium output 5500lm
					8000 - max. high output 8000lm #### - other required Im
	SIZE	SIZE OPTICS 36IN - Ø 36" ULO - Uniform	SIZE OPTICS HEIGHT 36IN - Ø 36" ULO - Uniform 3H - 3.5" optic	SIZE OPTICS HEIGHT LIGHT SOURCE 36IN - Ø 36" ULO - Uniform 3H - 3.5" optic LED - high performance LED	SIZE OPTICS HEIGHT LIGHT SOURCE CRI 36IN - Ø 36" ULO - Uniform 3H - 3.5" optic LED - high performance LED 80 - 80CRI

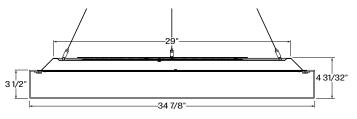
				1	5WAC36
INDIRECT LUMEN PACKAGES	CHROMAWERX	VOLTAGE	DRIVER	ELECTRICAL	MOUNTING
2500 - min. low output 2500lm	DUO - tunable white 2 channel	120 - 120V	DMX - to specify see pages 5 to 10	1-1 circuit	5WAC36 - power 5" white
3500 - medium output 3500lm	control 27k to 65k	277 - 277V	DA - Dali (duo only) local on-site		canopy (36" air craft cable)
4500 - max. high output 4500lm	SOLA - dim to warm single		commissioning is required		For all other options refer to
#### - other required Im	channel control 22k to 35k		0-10 - Single 0-10V input (Sola) or dual		our Pendant Mounting Guide
			0-10V input for CCT/Intensity (Duo)		
			PSQ0 - Lutron T-Series 1% Tunable White		
			(Duo only)		

See page 2 for ordering code detailed information

FINISH OPTIONS W - matte white FU - fuse CF# - custom finish CU - custom specify RAL#

DMX WALL CONTROLS To specify see pages 5 to 10

CROSS SECTION



POROPDI + 3H - pop round pendant direct/indirect with 3.5" optics

POROPDI + 5H - pop round pendant direct/indirect with 5" optics

-34 7/8"-

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File Name: POPCORE-36-TW-ROUND-PENDANT-DIRECT-INDIRECT-SPEC-REV1

March 6, 2024

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6 15/32"



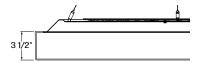
PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE AND DIM TO WARM

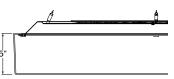
OPTICS

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.

OPTICS HEIGHT

POP round pendant 36 is available with both 3.5" and 5" diffuser.





POROPDI + 3H - pop round pendant direct/indirect with 3.5" optics

POROPDI + 5H - pop round pendant direct/indirect with 5" optics

LIGHT SOURCE - LED

PERFORMANCE AT 4000K

High Indirect Output (4500 Lumens)

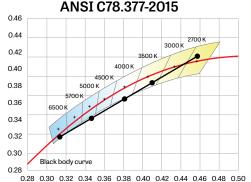
LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lm.	Efficacy LPW			
Low output	4000K	69	4000	4500	8500	123			
Medium output	4000K	81.5	5500	4500	10000	123			
High output	4000K	105	8000	4500	12500	119			
Medium Indirect C	Medium Indirect Output (3500 Lumens)								
LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lm.	Efficacy LPW			
Low output	4000K	59.5	4000	3500	7500	126			
Medium output	4000K	72	5500	3500	9000	125			
High output	4000K	96	8000	3500	11500	120			
Low Indirect Outp	Low Indirect Output (2500 Lumens)								
LED output	Color	Watts	Direct	Indirect	Total Nominal	Efficacy			

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lm.	
Low output	4000K	50.5	4000	2500	6500	129
Medium output	4000K	63	5500	2500	8000	127
High output	4000K	86	8000	2500	10500	122

Lumen Adjustment Factors						
2700K	0.917					
3000K	0.959					
3500K	0.988					
4000K	1.000					
6500K	1.053					

Custom array of alternating color temperature midflux 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



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.

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PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE AND DIM TO WARM

ChromaWerx Duo is a two-channel control. It uses analog or digital protocols for synchronous control of both warm and cool LED arrays, enabling 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.

ELECTRICAL

DMX (Duo only)

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 (Duo Only)

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%.

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 O-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.

PSQ0 (Duo only)

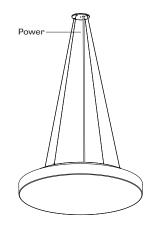
Lutron T-Series 2-Channel tunable white drivers enable high-performance human centric lighting (HCL) applications. Digital control of color temperature (CCT) and intensity are achieved when used with the ESN T-Series tunable white controller as a part of a Lutron Quatum System.

MOUNTING OPTIONS

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 - matte white powder coating.

CONSTRUCTION

Housing - 16 gauge spun aluminum, matte white powder coating

Diffuser - Uniform lambertian optic, thermoformed impact modified acrylic, completely enclosed

WEIGHT

RD 36 X 3.5 - 25.51lbs - 11.59kg RD 36 X 5 - 26.91lbs - 12.22kg

CERTIFICATIONS

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

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PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE AND DIM TO WARM

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.

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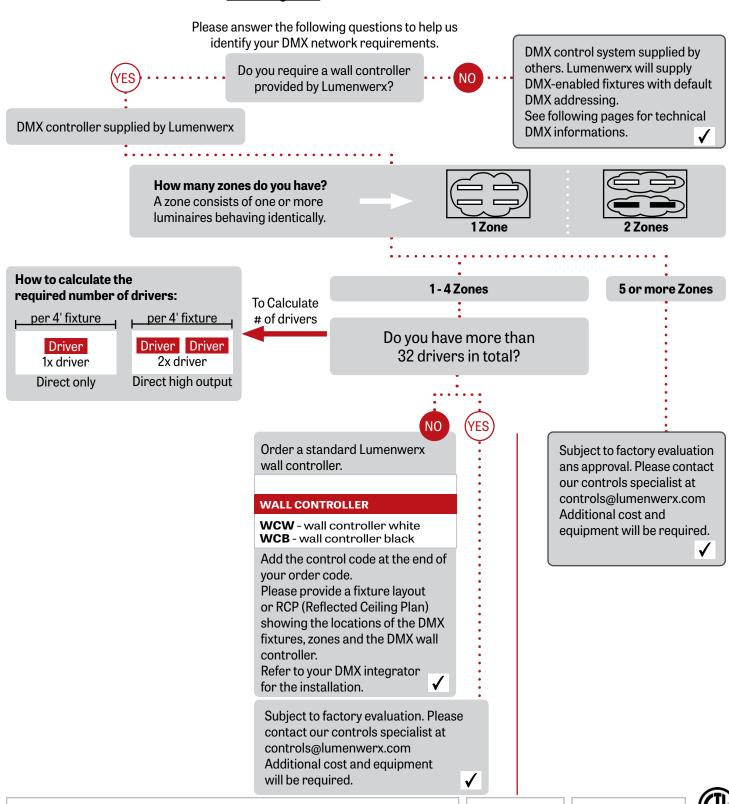




PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE

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 <u>contact information of your</u> **DMX integrator.**



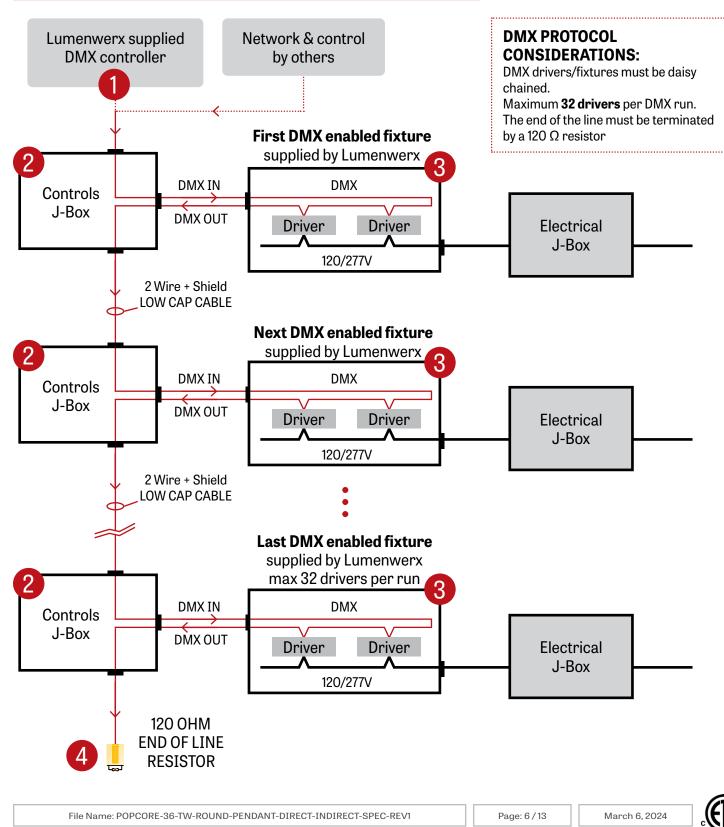
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Intertek

PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE

GENERIC DMX NETWORK ARCHITECTURE



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Intertek

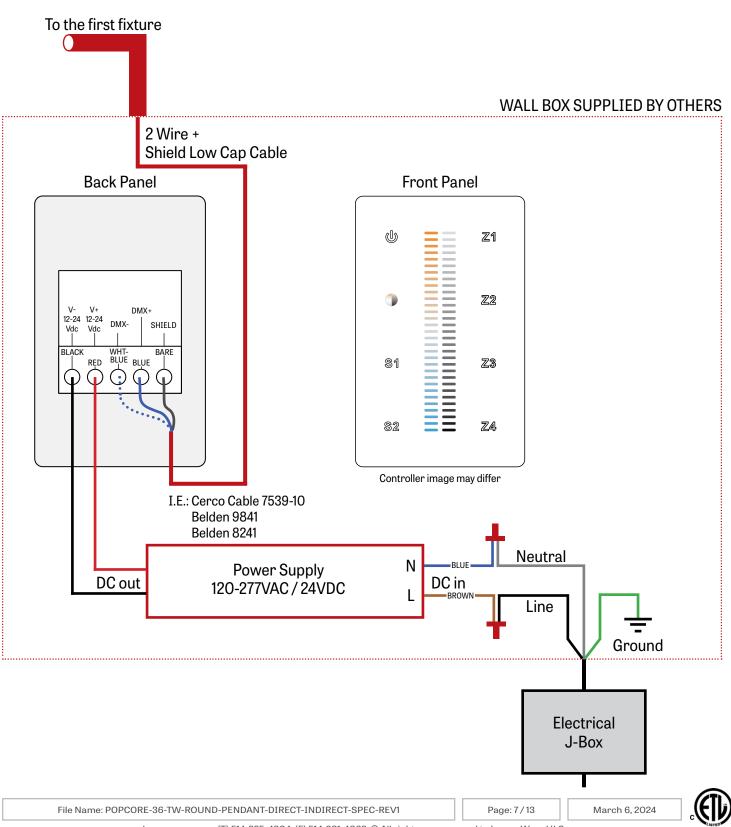
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WWW.LUMENWERX.COM



PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE

LUMENWERX SUPPLIED DMX CONTROLLER





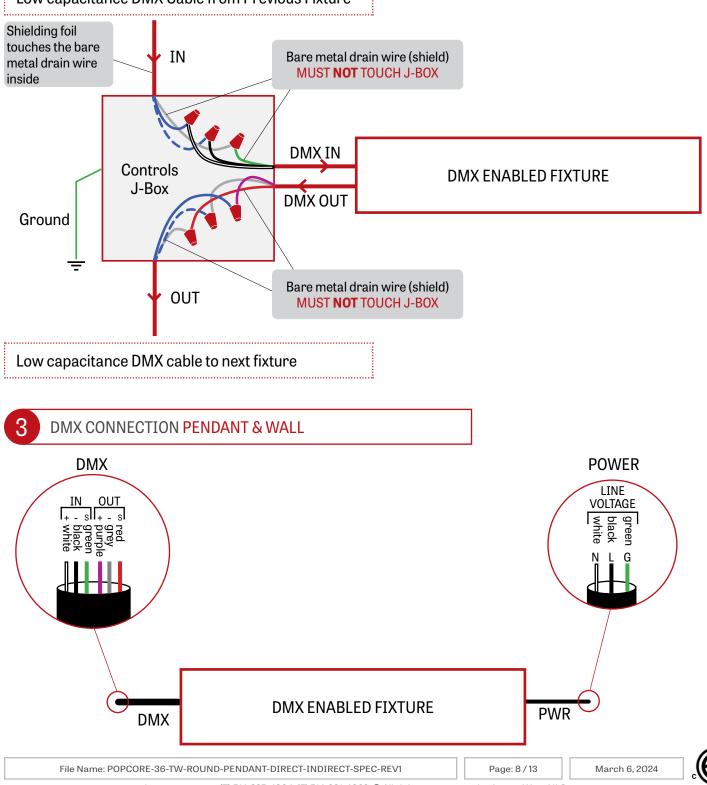


PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE

J-BOX DMX DAISY CHAIN DETAIL

2

Low capacitance DMX Cable from Previous Fixture



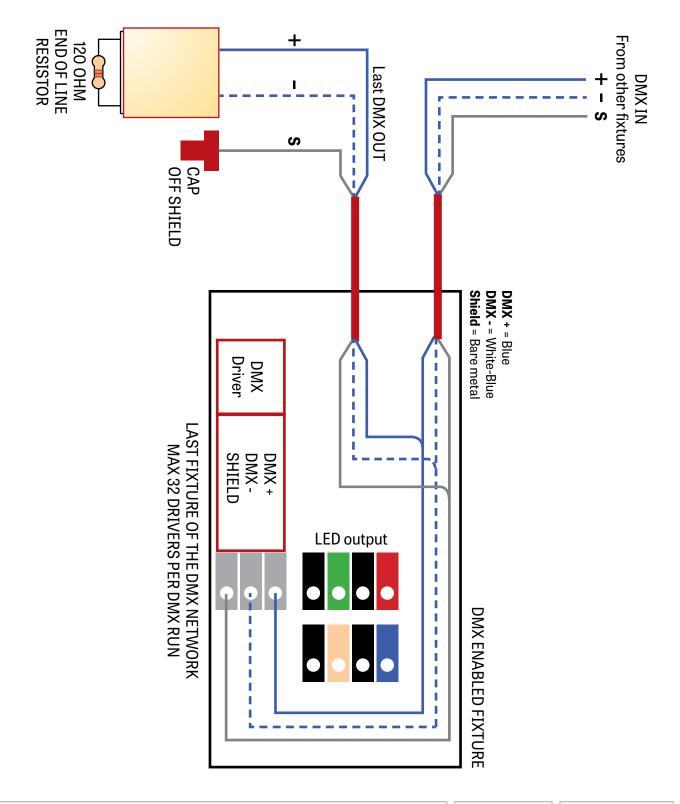


JMENWE \checkmark WW.LUMENWERX.COM W

PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE

DMX LAST FIXTURE DETAIL

Δ



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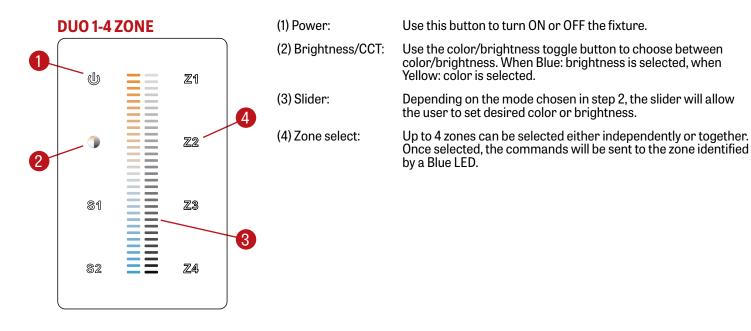






PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE

DMX WALL CONTROLLER



Default DMX Addresses: 1Warm 2 Cool

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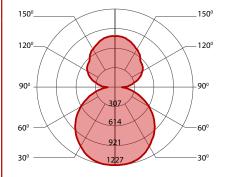
March 6, 2024



PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE AND DIM TO WARM

PERFORMANCE AT INDIRECT 2500 LUMEN

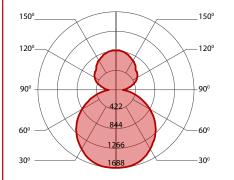
4000 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
low output	2700K	55	4000	2500	6500	118
low output	3000K	53.5	4000	2500	6500	121
low output	3500K	52	4000	2500	6500	125
low output	4000K	50.5	4000	2500	6500	129
low output	5000K	48.5	4000	2500	6500	134
low output	6500K	48.5	4000	2500	6500	134

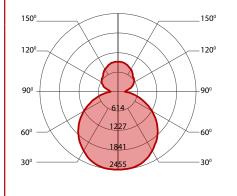
5500 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
medium output	2700K	68.5	5500	2500	8000	117
medium output	3000K	67	5500	2500	8000	119
medium output	3500K	65	5500	2500	8000	123
medium output	4000K	63	5500	2500	8000	127
medium output	5000K	60.5	5500	2500	8000	132
medium output	6500K	60.5	5500	2500	8000	132

8000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
high output	2700K	93.5	8000	2500	10500	112
high output	3000K	92	8000	2500	10500	114
high output	3500K	89	8000	2500	10500	118
high output	4000K	86	8000	2500	10500	122
high output	5000K	82.5	8000	2500	10500	127
high output	6500K	83.5	8000	2500	10500	126

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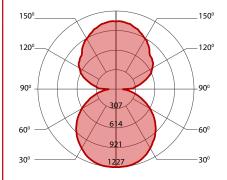




PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE AND DIM TO WARM

PERFORMANCE AT INDIRECT 3500 LUMEN

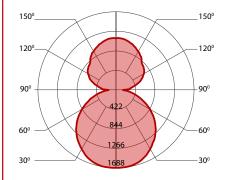
4000 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
low output	2700K	65	4000	3500	7500	115
low output	3000K	63.5	4000	3500	7500	118
low output	3500K	61.5	4000	3500	7500	122
low output	4000K	59.5	4000	3500	7500	126
low output	5000K	57	4000	3500	7500	131
low output	6500K	57.5	4000	3500	7500	130

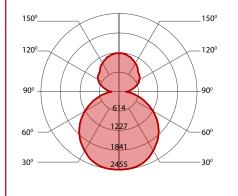
5500 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
medium output	2700K	79	5500	3500	9000	114
medium output	3000K	77	5500	3500	9000	117
medium output	3500K	74.5	5500	3500	9000	121
medium output	4000K	72	5500	3500	9000	125
medium output	5000K	69	5500	3500	9000	130
medium output	6500K	70	5500	3500	9000	129

8000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
high output	2700K	103.5	8000	3500	11500	111
high output	3000K	102	8000	3500	11500	113
high output	3500K	98.5	8000	3500	11500	117
high output	4000K	96	8000	3500	11500	120
high output	5000K	92	8000	3500	11500	125
high output	6500K	92	8000	3500	11500	125

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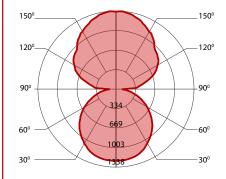




PENDANT DIRECT/INDIRECT - CHROMAWERX TUNABLE WHITE AND DIM TO WARM

PERFORMANCE AT INDIRECT 4500 LUMEN

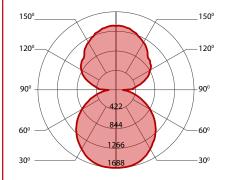
4000 LUMEN AT 80CRI - LOW OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
low output	2700K	75	4000	4500	8500	113
low output	3000K	73	4000	4500	8500	116
low output	3500K	71.5	4000	4500	8500	119
low output	4000K	69	4000	4500	8500	123
low output	5000K	66.5	4000	4500	8500	128
low output	6500K	66.5	4000	4500	8500	128

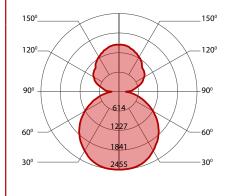
5500 LUMEN AT 80CRI - MEDIUM OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
medium output	2700K	88.5	5500	4500	10000	113
medium output	3000K	87	5500	4500	10000	115
medium output	3500K	84	5500	4500	10000	119
medium output	4000K	81.5	5500	4500	10000	123
medium output	5000K	78	5500	4500	10000	128
medium output	6500K	78	5500	4500	10000	128

8000 LUMEN AT 80CRI - HIGH OUTPUT



PERFORMANCE

LED output	Color Temp	Watts	Direct Lumens	Indirect Lumens	Total Nominal Delivered Lumens	Efficacy LPW
high output	2700K	113.5	8000	4500	12500	110
high output	3000K	111.5	8000	4500	12500	112
high output	3500K	108	8000	4500	12500	116
high output	4000K	105	8000	4500	12500	119
high output	5000K	101	8000	4500	12500	124
high output	6500K	101	8000	4500	12500	124

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