

_

Type:

DESCRIPTION

Timeless in appearance and flexible in function, the decorative Forma pendants embody the simple beauty of geometric design and the sophisticated power of innovative technology. The conical Caret, the truncated-cone-shaped Tote, and the hemisphere Cupola luminaires are each equipped with our Unity Pointed (UP) technology, which delivers lens brightness uniformity across all shapes and sizes within the same lumen output.







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

T (514) 225-4304 F (514) 931 -4862

www.lumenwerx.com



FORMA CARET PENDANT DIRECT



Type:

Order Guide

LUMINAIRE ID	SIZE	DISTRIBUTION	OPTIC	LIGHT SOURCE	CRI Specify NA for Solid Color	LUMI	EN PACKA	GE	
FCARP		D	HLO						
FCARP - Forma Caret Pendant	8IN - 8" diameter 12IN - 12" diameter	D - Direct	HLO - High- Efficiency Lambertian Optic	SW - Static white FS - Full spectrum BIOSST - Static biologically- optimized lighting BIOSDY - Dynamic biologically- optimized lighting SOLA - Dim-to-warm single channel control 35K to 22K DUO - Tunable White 2-channel control 65K to 27K RS - Red solid GS - Green solid BS - Blue solid	80CRI ¹ - 80 CRI 90CRI ¹ - 2 - 90 CRI 95CRI ³ - 95 CRI NA - Not applicable ¹ Not available with full spectrum. ² Not available with BIOS. ³ Only available with full spectrum.	8" 12" ⁴ Not a	OLA, DUO Low X 800LM vailable with Colors (RS, 6W 14W	Medium 500LM 1200LM full spectrum	High ⁴ 700LM 1600LM or BIOS.

COLOR TEMPERATURE Specify NA for Sola, Duo and Solid Color	VOLTAGE	DRIVER ⁶		ELECTRICAL
				1C
27К ⁵ - 2700К 30К - 3000К 35К - 3500К 40К - 4000К NA - Not applicable ⁵ Not available with BIOS.	120V - 120V 277V - 277V UNV - 120V-277V	SW D1 - 1% 0-10V DA ? - DAL1 LDE1 ? - Lutron Hi-lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V SOLA SD1 - Single 0-10V input *PoE (Power-over-Ethernet) compatible. Consult facto ? On-site commissioning is required.	DUO DDA ⁷ - DALI DT6 DDA8 ⁷ - DALI DT8 DD1 - Dual 0-10V input for CCT/intensity PSQ0 ⁷ - Lutron T-Series 1% tunable white RDMX ⁷ - Remote DMX Soild Colors D1 - 0-10V	1C - 1 circuit

	BODY FINISH ⁹	INNER TRIM FINISH ¹⁰
PCS - Power cord, standard STS - Stem, standard PCC() - Power cord, custom STC() - Stem, custom	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL#	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL#
⁸ See page 3 for ordering details.	⁹ See page 4 for more finish options.	¹⁰ See page 4 for more finish options.

Accessories

Optional, order separately

WALL CONTROLLER	
DMX	DDI
WCW ⁿ - DMX wall controller white WCB ⁿ - DMX wall controller black	TWCW ¹² - Dual 0-10V wall controller white TWCB ¹² - Dual 0-10V wall controller black
¹¹ Available with DMX only. For more information, see pages 8 to 11, or consult factory.	¹² Available with DD1 only. For more information, see page 12, or consult factory.

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Pendant Mounting Code

Standard

For a standard mounting, please refer to the information below.

MOUNTING

PCS - Power cord	STS - Stem
Ø5" canopy Canopy is white Power cord is white for all fixture finishes (except black fixture is black power cord) Power cord length is 36"	Ø5" canopy Canopy is white Stem finish is the same color as fixture Stem length is 18" Stem is not field adjustable
Driver	t 3/8"

Custom

MOUNTING

Power cord

For a custom mounting, specify the options in the parentheses.

Example: PCC(5PC-36IN-TMW-PCW)

MOUNTING				
PCC()				
	CANOPY SIZE	POWER CORD LENGTH	CANOPY FINISH	POWER CORD COLOR
PCC	5PC - Ø 5" power canopy	 36IN - 36" 72IN - 72" #IN ¹ - Other lengths, specify in inches ¹Minimum length is 18". Maximum length is 72". For longer lengths, please consult factory. 	TMW - Textured matte white TMB - Textured matte black CF# - Custom finish, specify RAL#	PCW - White PCB - Black

Stem

For a custom mounting, specify the options in the parentheses.

Example: STC(5PC-18IN-TMW-STW)

MOUNTING STC() CANOPY SIZE STEM LENGTH CANOPY FINISH STEM COLOR **STW** - White STC 5PC - Ø 5" power canopy 18IN - 18" TMW - Textured matte white 36IN - 36" TMB - Textured matte black STB - Black #IN² - Specify length in inches CF# - Custom finish, specify RAL# **STCF#** - Custom finish, specify RAL# ² Minimum length is 7". Maximum length is 72". Stem is not field adjustable.



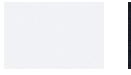


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Fixture Finishes

Standard





TMW - Textured Matte White TMB- Textured Matte Black

Custom Neutrals

CRM - Cream GRY - Gray STG - Steel Gray SAG - Sage Gray MOG - Moss Gray BLB - Black Blue Designer ALM - Almond QRZ - Quartzite Texture RST - Rust Fine Texture GRB - Green Beige YLW - Yellow SLM - Salmon Pink VIO - Pastel Violet RED - Red PRR - Purple Red SMB - Storm Blue DPB - Deep Blue OCB - Ocean Blue BLG - Blue Green GNS - Green Smoke LMG - Lime Green MNG - Mint Green Metallics IRN - Iron Ore CHP - Champagne GLD - Gold DGD - Dark Gold CNY - Canyon SBP - Sandblast Copper



SWD - Sandalwood

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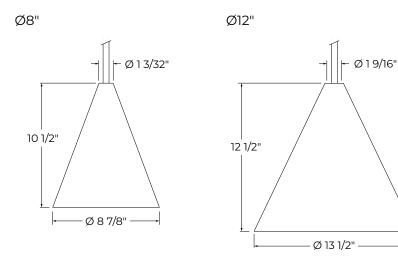




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Dimensions



Photometrics

Delivered Lumens at 35K at 80 CRI

Ø8"

LED OUTPUT	DELIVERED LUMENS	INPUT WATTAGE	EFFICACY LPW
Medium output	500	5.3	94
High output	700	7.6	92

Ø12"

LED OUTPUT	DELIVERED LUMENS	INPUT WATTAGE	EFFICACY LPW
Low output	800	8.8	91
Medium output	1200	13.5	89
High output	1600	18.4	87

Multiplier - CCT/CRI

	WA	TTS	LF	w
CCT (K)	CRI80	CRI90	CRI80	CRI90
		1		
2700	1.05	1.26	0.95	0.79
3000	1.01	1.23	0.99	0.81
3500	1.00	1.20	1.00	0.84
4000	1.00	1.17	1.00	0.85

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Technical Specifications

OPTIC

High-Efficiency Lambertian Optic (HLO)

Shielding of 0.1" thick, thermoformed diffusing acrylic with up to 70% transmission and excellent source obscuration. Vertical return edge illuminates inside of housing. Luminaire brightness is controlled by the flux-to-shielding area ratio.

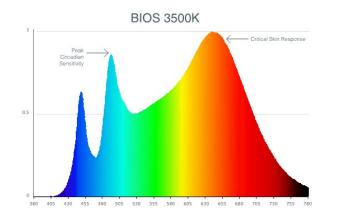
LIGHT SOURCE - STATIC WHITE

Custom array of mid-flux LEDs are mounted directly to the housing for optimal thermal performance. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to optimize efficacy and lumen maintenance.

All LEDs 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. Optional full spectrum LEDs can be incorporated in the fixture to increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms.



BIOS SkyBlue™ Technology is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night, and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the "sky blue" region. As the diagram below illustrates, BIOS SkyBlue technology shifts the peak LED spectral intensity (490 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



CHROMAWERX - TUNABLE WHITE

Chromawerx SOLA

Chromawerx SOLA is single-channel control that dims output while warming the color temperature in a pre-determined relationship. A simple analog control adjusts a specially populated LED array to emulate the effect of dimming a filament source.

Chromawerx DUO

Chromawerx DUO offers a two-channel control system which uses analog or digital protocols for synchronous control of both cool (6500K) to warm (2700K) LED arrays - maintaining a CRI above 90. The range of color DUO offers is useful for entraining circadian rhythms, stimulating alertness, and compensating for jet lag among other applications. The Chromawerx drivers are programmed to limit maximum light output and power usage across all color temperatures.

Chromawerx Solid colors

For dramatic coloration, Forma Caret offers Chromawerx options for solid colors like red, green, or blue. Consult Lumenwerx for implementations of Chromawerx Duo with white and solid color LEDs, enabling muted colors or the ability to switch between white and colored light.



ELECTRICAL

Factory-set, adjustable output current LED driver with universal (120-277VAC) input. Dimmable from 100% to 1% with 0-10V dimming control. Rated life (90% survivorship) of 50,000 hours at 50°C max. ambient (and70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% Eco, DMX (RDM compatible), eldoLED 1% ECOdrive, eldoLED 0.1% SOLOdrive, and DALI protocol drivers. All of our standard 0-10V drivers are NEMA 410 compliant.

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.



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FINISH

Interior - 95% reflective, matte white powder coating. Exterior - Standard powder-coat paint available in textured matte white and black. Custom colors are also available in over 30 colors.

CONSTRUCTION

Housing - Spun aluminum Canopy - Spun sheet metal Lens - Thermoformed acrylic

WEIGHT

8" - 3.1 lbs - 1.4 kg **12"** - 5.9 lbs - 2.8 kg

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

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.

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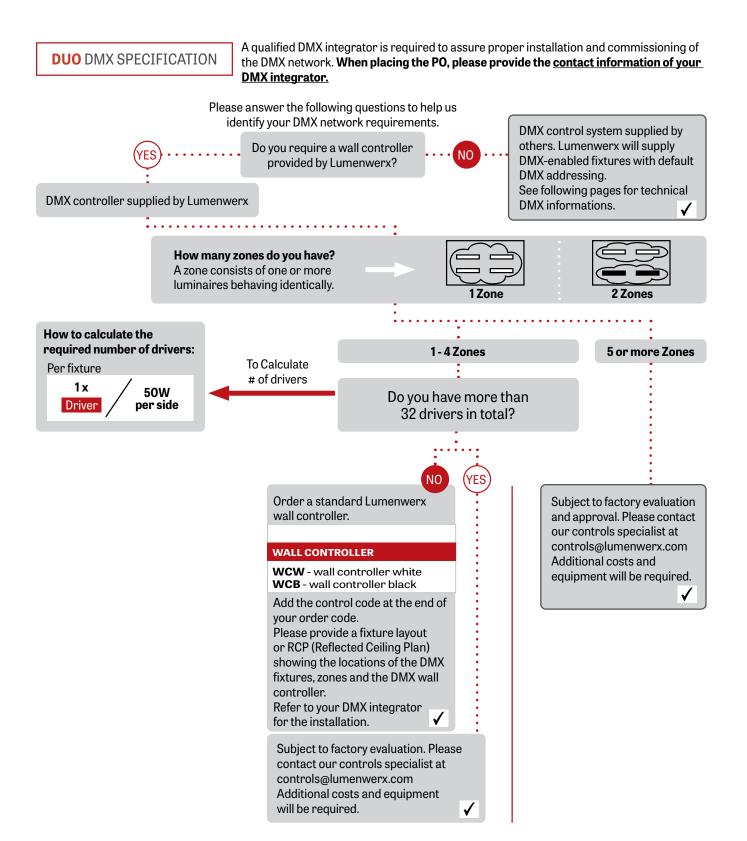
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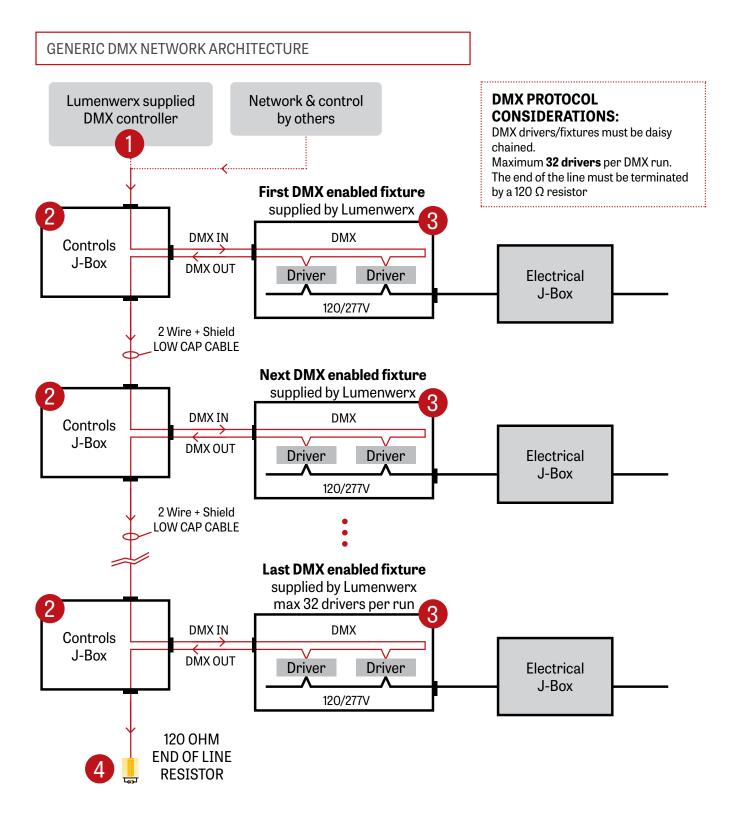






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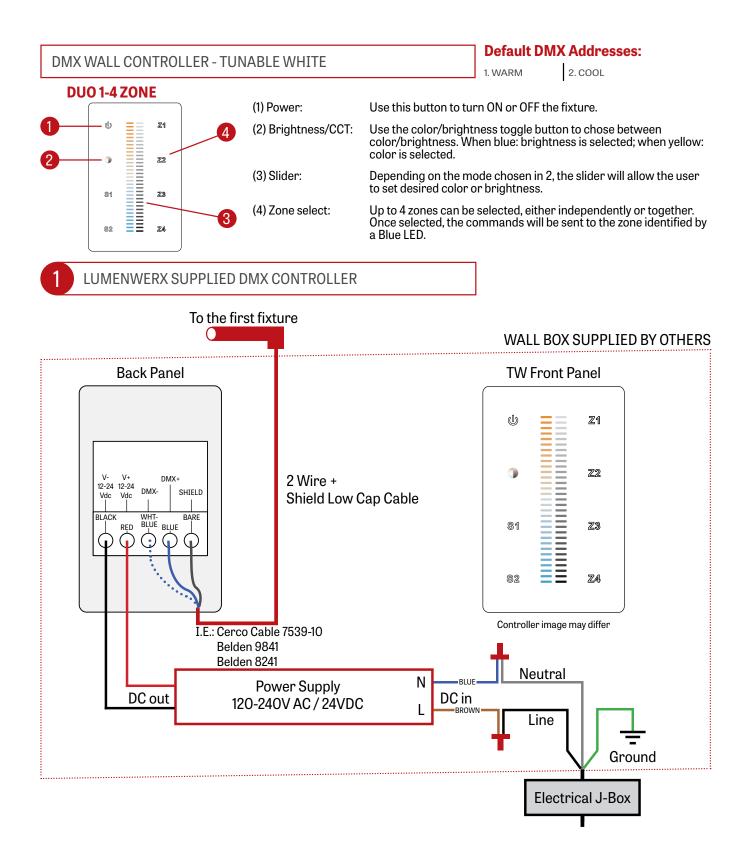




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2 J-BOX DMX DAISY CHAIN DETAIL Low capacitance DMX Cable from previous fixture Shielding foil touches the bare IN Bare metal drain wire (shield) metal drain wire MUST NOT TOUCH J-BOX inside DMX IN Controls DMX ENABLED REMOTE DRIVER BOX J-Box DMX OUT Ground Ξ Bare metal drain wire (shield) OUT MUST NOT TOUCH J-BOX Low capacitance DMX cable to next fixture 3 DMX CONNECTION PENDANT & WALL REMOTE DRIVER POWER DMX LINE IN OUT VOLTAGE Shie DMX DMX green black white DMX + = Blue DMX - = White-Blue NLG Shield = Bare metal LOW VOLTAGE **PWR** LED OUTPUT DMX ENABLED REMOTE DRIVER BOX \cap DMX

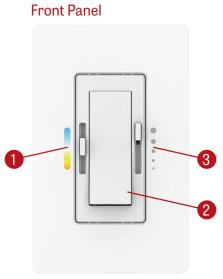




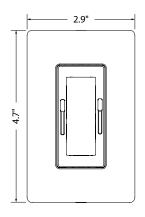
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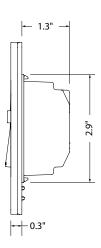


DUAL 0-10V WALL CONTROLLER



Dimensions





Controller image may differ

(1) CCT control:	Use this button to adjust the color temperature.
(2) On/Off switch:	Use this button to turn ON or OFF the fixture.
(3) Dimming control:	Use this button to adjust the brightness.

Wiring Diagram

