FORMA CARET PENDANT

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Project:	
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Туре:	

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.









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Project:	
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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" 4Not a	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
27K ⁵ - 2700K 30K - 3000K 35K - 3500K 40K - 4000K NA - Not applicable ⁵ Not available with BIOS.	120V - 120V 277V - 277V UNV - 120V-277V	SW D1 - 1% 0-10V DA 7 - DALI LTEA2W 8 - Lutron 1% - 2 wire FP 120V LDE1 7 - Lutron Hi-lume 1% Eco ELD1 - eldoLED 1% ECOdrive 0-10V ELD0 - eldoLED 0.1% SOLOdrive 0-10V SOLA SD1 - Single 0-10V input 6 PoE (Power-over-Ethernet) compatible. Consult fa 7 On-site commissioning is required. 8 Available with 120V only.	DUQ 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 ctory for details.	1C - 1 circuit

MOUNTING 9	BODY FINISH 10	INNER TRIM FINISH 11
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#
⁹ See page 3 for ordering details.	¹⁰ See page 4 for more finish options.	¹¹ See page 4 for more finish options.

Accessories

Optional, order separately

DMX WALL CONTROLLER 12

WCW - Wall controller white **WBW** - Wall controller black

¹² Available with DMX only. For more information, see pages 8 to 11, or consult factory.





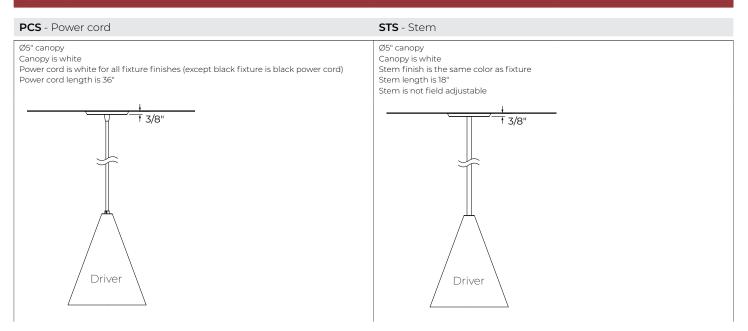
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Pendant Mounting Code

Standard

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

MOUNTING



Custom

Power cord

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

Example: PCC(36IN-TMW-PCW)

MOUNTING			
PCC()			
	POWER CORD LENGTH	CANOPY FINISH	POWER CORD COLOR
PCC	36IN - 36" 72IN - 72" #IN 1 - Other lengths, specify in inches 1 Minimum 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(18IN-TMW-STW)

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



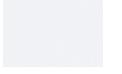




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Fixture Finishes

Standard





TMW - Textured Matte White TMB- Textured Matte Black

Custom

Neutrals





GRY - Gray









CRM - Cream

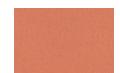
Designer



RST - Rust Fine Texture







ALM - Almond

QRZ - Quartzite Texture









DPB - Deep Blue



SLM - Salmon Pink

VIO - Pastel Violet



RED - Red



GNS - Green Smoke



MNG - Mint Green



OCB - Ocean Blue













SND - Sand



SWD - Sandalwood



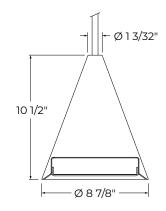




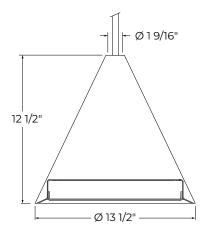
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Dimensions

Ø8"



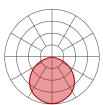
Ø12"



Photometrics

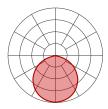
Delivered Lumens at 35K at 80 CRI

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

CCT (K)	WA	TTS	LP	•W
CCT (K)	CRI80	CRI90	CRI80	CRI90
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

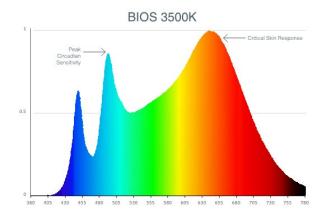
Custom array of mid-flux LEDs are mounted directly to the housing for optimal thermal performance. Available in 2700K, 3000K, 3500K and 4000K with a minimum 80 CRI and an option for 90 CRI with elevated R9 value. Color consistency maintained to within 3 SDCM. LEDs operated at reduced drive current to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







RS - Red solid

BS - Blue solid

GS - Green solid

FI FCTRICAL

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 (and 70°C max. case) temperature. At maximum driver load: Efficiency>84%, PF>0.9, THD<20%. Other specifiable options include Lutron Hi-Lume 1% (specify 2-wire, or Ecosystem Dim-to-Off), 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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DUO DMX SPECIFICATION

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. DMX control system supplied by others. Lumenwerx will supply Do you require a wall controller DMX-enabled fixtures with default provided by Lumenwerx? DMX addressing. See following pages for technical DMX controller supplied by Lumenwerx DMX informations. How many zones do you have? A zone consists of one or more luminaires behaving identically. How to calculate the required number of drivers: 1-4 Zones 5 or more Zones To Calculate Per fixture # of drivers 1 x **50W** Do you have more than per side Driver 32 drivers in total? Order a standard Lumenwerx Subject to factory evaluation wall controller. and approval. Please contact our controls specialist at controls@lumenwerx.com **WALL CONTROLLER** Additional costs and WCW - wall controller white equipment will be required. WCB - wall controller black Add the control code at the end of vour 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.

A qualified DMX integrator is required to assure proper installation and commissioning of



Subject to factory evaluation. Please contact our controls specialist at controls@lumenwerx.com Additional costs and equipment

will be required.



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GENERIC DMX NETWORK ARCHITECTURE Lumenwerx supplied Network & control **DMX PROTOCOL** DMX controller **CONSIDERATIONS:** by others DMX drivers/fixtures must be daisy Maximum 32 drivers per DMX run. The end of the line must be terminated First DMX enabled fixture by a 120 Ω resistor supplied by Lumenwerx DMX DMX IN Controls J-Box **DMX OUT** Electrical Driver Driver J-Box 120/277V 2 Wire + Shield LOW CAP CABLE Next DMX enabled fixture supplied by Lumenwerx **DMX IN** DMX Controls J-Box **DMX OUT** Driver Driver Electrical J-Box 120/277V 2 Wire + Shield LOW CAP CABLE Last DMX enabled fixture supplied by Lumenwerx max 32 drivers per run DMX IN DMX Controls J-Box **DMX OUT** Driver Driver Electrical J-Box 120/277V 120 OHM **END OF LINE** RESISTOR



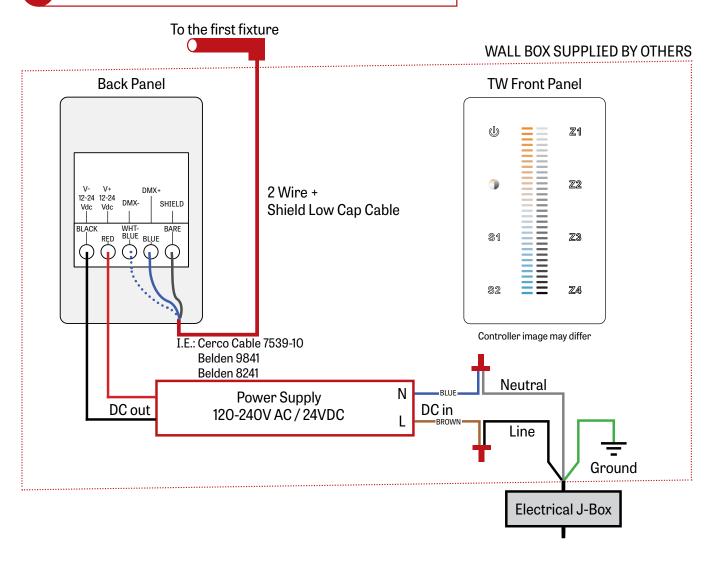




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Default DMX Addresses: DMX WALL CONTROLLER - TUNABLE WHITE 1. WARM 2. COOL **DUO 1-4 ZONE** (1) Power: Use this button to turn ON or OFF the fixture. Z1 (2) Brightness/CCT: Use the color/brightness toggle button to chose between color/brightness. When blue: brightness is selected; when yellow: color is selected. Z2 (3) Slider: Depending on the mode chosen in 2, the slider will allow the user to set desired color or brightness. **Z**3 Up to 4 zones can be selected, either independently or together. (4) Zone select: Once selected, the commands will be sent to the zone identified by 74 a Blue LED.

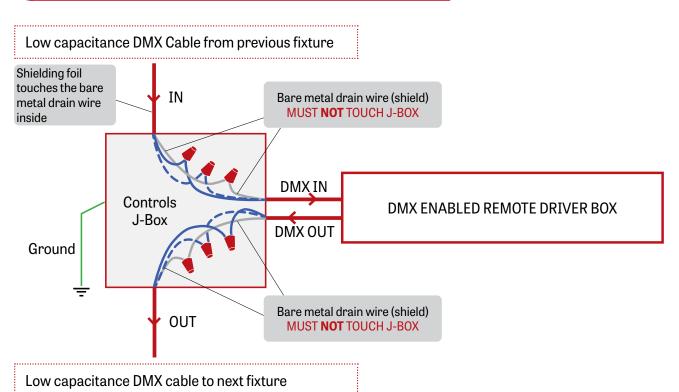
LUMENWERX SUPPLIED DMX CONTROLLER





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J-BOX DMX DAISY CHAIN DETAIL



DMX CONNECTION PENDANT & WALL REMOTE DRIVER

