LUMENWERX

SHELL ROUND - PENDANT STATIC WHITE, BIOS, SOLA, DUO

Project:

Type:

DESCRIPTION

Shell fixtures are sleek, balanced, and well detailed. Remarkably versatile, Shell complements general illumination in working spaces and provides functional illumination over conference tables, in break or lunch rooms, and in circulation spaces. Shell Round Pendant can offer a subtle uplight for added visual interest. Shell is available with Chromawerx Duo, Sola, and solid colors (red, green and blue), as well as Static White and BIOS. See additional specification sheets for other mounting and shape options.









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Order Guide

LUMINAIRE ID	SIZE	OPTICS	LIGHT S	OURCE		CRI	LUME	N PACKAG	E	
SHERP		HLO								
SHERP - Shell Round Pendant	8IN - Ø 8" 12IN - Ø 12" 24IN - Ø 24"	- Ø 12" Efficiency BIOSST - - Ø 24" Lambertian Optic SOLA - D DUO - Tu RS - Red GS - Gree BS - Blue		- Static white ST - Static biologically-optimized lighting SDY ¹ - Dynamic biologically-optimized lighting A - Dim-to-warm single channel control 22K to 35K D - Tunable white 2-channel control 27K to 65K Red solid Green solid Blue solid ilable with Remote Driver Box only.		80 - 80CRI 90 ² - 90CRI	<u>SW, Bl</u> Ø 8" Ø 12" Ø 24"	OSST, BIOS Low 350Im 800Im 3200Im	DY, SOLA, DU Medium ³ 500lm 1200lm 4800lm	O High ³ 700lm 1600lm 6400lm
						² Not available with BIOS.	<u>Solid c</u> Ø 8" Ø 12" Ø 24"	olors (RS, G 6W 14W 57W	<u>S, BS)</u>	
							³ Not av	ailable with	BIOS.	
COLOR TEMP Do not specify for So solid colors.	ola, Duo and	VOLTAGE		DRIVER ⁶					ELECTRIC	AL
									1	
27 * - 2700K 30 - 3000K 35 - 3500K 40 - 4000K *Not available with BIOS.		120 - 120V 277 - 277V UNV - 120V-277V 347 ^s - 347V ^s Available with static white and D1 only.		SW, BIOS D1 - 1% 0-10V DA ⁷ - DALI LDE1 ⁷ - Lutron Hi-lume 1% Eco ELD1 ⁸ - eldoLED 1% ECOdrive ELD0 ⁸ - eldoLED 0.1% SOLOdrive	DMX DA 7	DUO 1 - 1 circu DD1 - Dual 0-10V input for CCT/intensity 1 DMX * - DMX, to specify see pages 8 to 11 1 DA * - DALI 25Q0 ** - Lutron T-Series 1% Tunable White Solid Colors D1 - 0-10V		1 - 1 circuit		
				SOLA SD1 - Single 0-10V input						
				⁶ PoE (Power-over-Ethernet) compatible. Consult factory for details. ⁷ On-site commissioning is required. ⁸ Available with Remote Driver Box only.						

MOUNTING	FINISH	UP LIGHT GLOW 16		
DRIVER BOX	CANOPY FINISH	STEM/CABLE (Specify length (#) in inches)	W - Matte white	WHS - White glow BLS - Blue glow
RCD ^{9 10} - Round Canopy Driver Box RDB - Remote Driver Box IDB ¹¹ ¹² ¹³ - Integral Driver Box ⁹ Not available with BIOSDY. ¹⁰ Not available with ELD1, ELD0, and PSQ0 driver options. ¹¹ Only available for Ø24" with static white or BIOS. ¹² Not available with 6400Im. ¹³ Only available with D1.	W - Matte white AL - Aluminum B - Matte black CF# - Custom finish specify RAL#	SSW# ¹⁴ - Stem, 18" standard, max. 48" SPW# ¹⁵ - Aircraft cable with power cord, 36" standard RPW# - Reinforced power cable white RPB# - Reinforced power cable black ¹⁴ Stem color matches fixture. ¹⁵ Power cord is white. For other colors, consult factory.	AL - Aluminum B - Matte black RAL1028 - Yellow RAL2004 - Orange RAL3020 - Red RAL4010 - Magenta RAL5018 - Green CF# - Custom finish specify RAL#	RES - Red glow GRS- Green glow ORS - Orange glow ##S - Custom glow NG - No glow ¹⁶ For solid colors, glow will be the same color as the specified solid color.

Accessories

Optional, order separately

DMX WALL CONTROLLER 17

WCW - Wall controller white WBW - Wall controller black

¹⁷ For more information, see pages 8 to 11, or consult factory.

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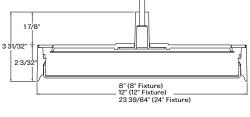
LUMENWERX

Project:

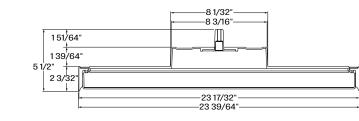
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Type:

Section view

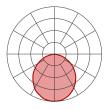


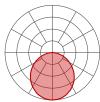
SHERP - Stem - Remote driver

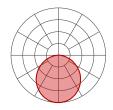


SHERP24 - Stem - Integral driver

Photometrics







Performance for Ø8" - Delivered Lumens at 35K at 80 CRI

LED OUTPUT	DELIVERED LUMENS	INPUT WATTAGE	EFFICACY LPW
Low output	350	3.9	95
Medium output	500	5.4	93
High output	700	7.7	91

Performance for Ø12" - Delivered Lumens at 35K at 80 CRI

LED OUTPUT	DELIVERED LUMENS	INPUT WATTAGE	EFFICACY LPW
Low output	800	8.7	93
Medium output	1200	13.2	91
High output	1600	18	89

Performance for Ø24" - Delivered Lumens at 35K at 80 CRI

LED OUTPUT	DELIVERED LUMENS	INPUT WATTAGE	EFFICACY LPW
Low output	3200	34.5	93
Medium output	4800	53	91
High output	6400	72.2	89

Multiplier - CCT/CRI

ССТ (К)	WA	TTS	LPW		
	CRI80	CRI90	CRI80	CRI90	
2700	1.05	1.13	0.95	0.88	
3000	1.01	1.09	0.99	0.92	
3500	1	1.08	1	0.93	
4000	1	1.08	1	0.93	







LUMENWERX

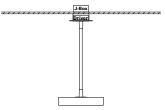
Project:

Type:

MOUNTING OPTIONS

ROUND CANOPY DRIVER BOX Shown with stem option



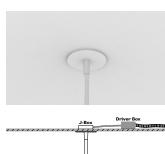


RCD - Round Canopy Driver Box - driver is surface-mounted in a 2" deep enclosure, with 6"diameter. Canopy supports power cord or stem. Enclosure is available in standard or custom finishes (see ordering code).

STEM (SSW)

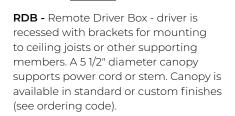


18" long x 1/2" diameter steel stem is available for all driver mounting options. Longer stems up to 48" are available. Stems cannot be cut in the field. Finished to match housing.



REMOTE DRIVER BOX

Shown with stem option



AIRCRAFT CABLE (SPW)



Standard 36" long x 1/16" braided stainless steel aircraft cable and 5-conductor white cord is available for all driver mounting options. REINFORCED POWER CABLE (RPW)



36" Integral suspension and power cable is available for all driver mounting options. Current from the driver to the LED arrays flows through seven-strand galvanized copper conductors.





Technical Specifications

OPTICS

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-power LEDs mounted directly to the fixture 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 is maintained to within 3 SDCM. LEDs operate at a reduced drive current to optimize efficacy and lumen maintenance. All LEDs have been tested in accordance with IESNA LM-80-08 and results have shown L80 lumen maintenance is greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

LIGHT SOURCE - SOLA / DUO

Custom linear array of alternating color temperature mid-flux LEDs 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 3 SDCM. LEDs are 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.



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 (460 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.



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Type:



WELL for Light - The WELL building standard focuses on light quality in several features. There are three categories that are fully attributed to the constriction and features of a luminaire. In WELL VI, it's Feature 54 Circadian Lighting, Feature 55 Clare Control, and Feature 58 Color Quality. In WELL V2, it's Feature L03 Circadian Lighting, Feature L04 Glare Control, and Feature L07 Electric Light Quality.

This fixture meets Features:

- Feature 54 or L03 when BIOS LED or Duo is selected
- Feature 55 or LO4 meets WELL glare category (b-c-d)
- Feature 58 or L07 when 90CRI is selected

All LED drivers used at Lumenwerx are deemed to have a low risk level of flicker, of 5 % or less below 90Hz operational as defined by IEEE standard 1789-2015 LED.



WELL for Mind -This luminaire meets WELL for mind as it is a human centric luminaire offering quality light, excellent color, and smooth optics. If any of these features are incorporated in a luminaire, it can improve the ability to focus, concentrate, and persist longer on a given task. This fixture harmoniously operates in a space to assist the mind.

For more information please contact well@lumenwerx.com.





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CHROMAWERX

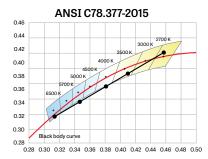
A custom array of alternating color temperature LEDs mounts directly to the housing for optimal thermal performance. Mid-flux LEDs operate at reduced drive current to optimize efficacy and lumen maintenance.

Chromawerx Sola

Chromawerx Sola dims output while warming the color temperature in a pre-determined relationship. Dimming range is programmable, but the default option runs from 3500K at 100% full power to 2200K at 5% full power.

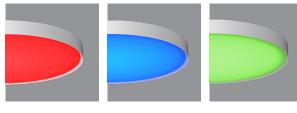
Chromawerx Duo

Chromawerx Duo enables the user to set color temperature and light output independently. Commonly called "tunable white", Chromawerx Duo provides the range from warm to cool color that can be useful for helping to entrain circadian rhythms, stimulate alertness, 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.



Chromawerx Solid colors

For dramatic coloration, Shell 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

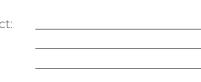
BS - Blue solid

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GS - Green solid

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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 (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%, 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 case-by-case basis.

FINISH

Interior - 95% reflective, matte white powder coating. Exterior - powder coating in a range of vibrant colors.

HOUSING COLOR OPTIONS





LUMENWERX

Project:

Туре:

CONSTRUCTION

Housing - Die-cast aluminum ring with light-weight die-cast backplate
Canopy (RCD) - Spun sheet metal
Canopy (RDB) - Spun sheet metal
Diffuser - High-Efficiency Lambertian Optic, thermoformed acrylic

UP LIGHT GLOW

Subtle up light glow is emitted at the upper edge of the housing. Optional acrylic filters add a touch of color.



WEIGHT

SHERP Ø8" - 2.36 lbs - 1.06 kg SHERP Ø12" - 4 lbs - 1.78 kg SHERP Ø24" - 13.11 lbs - 5.95 kg SHERP Ø24" (Integral driver) - 16.51 lbs - 7.49 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.

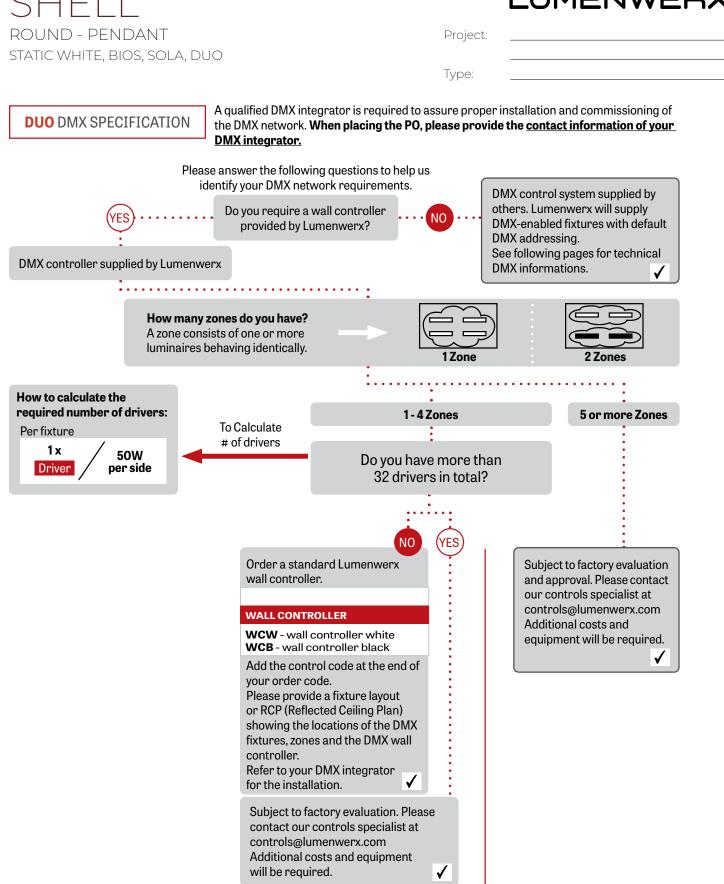
WARRANTY

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.





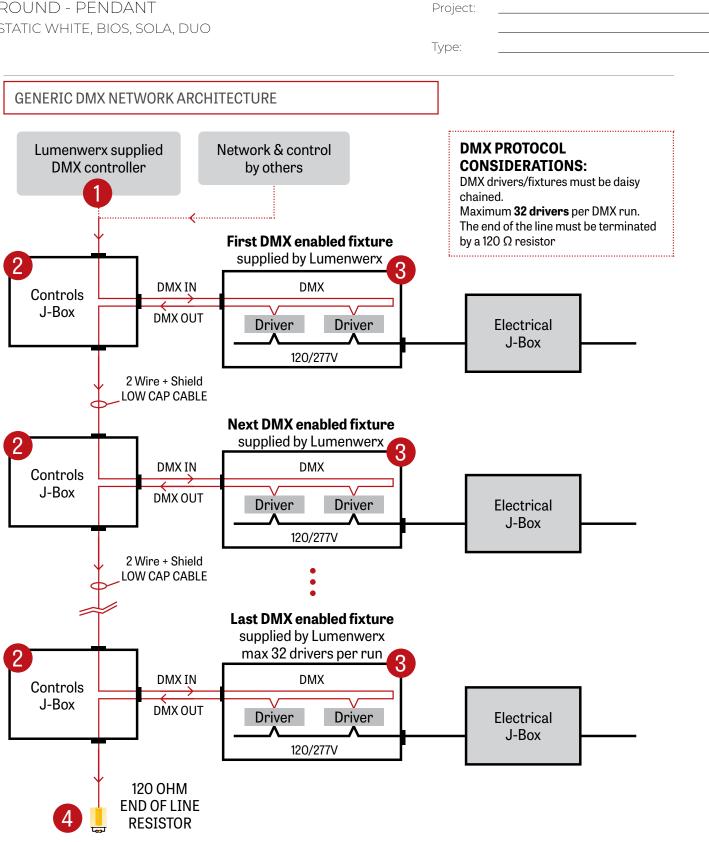
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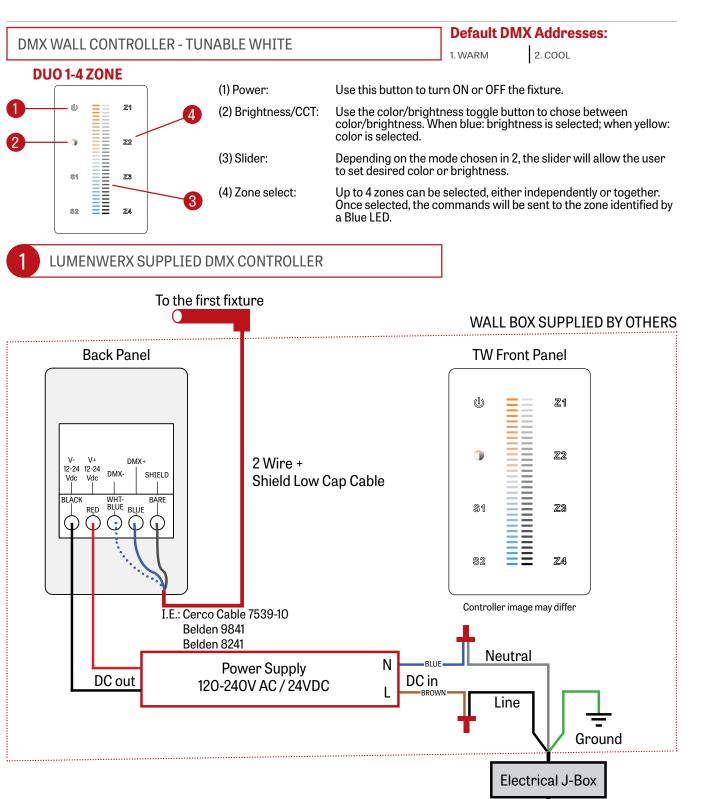




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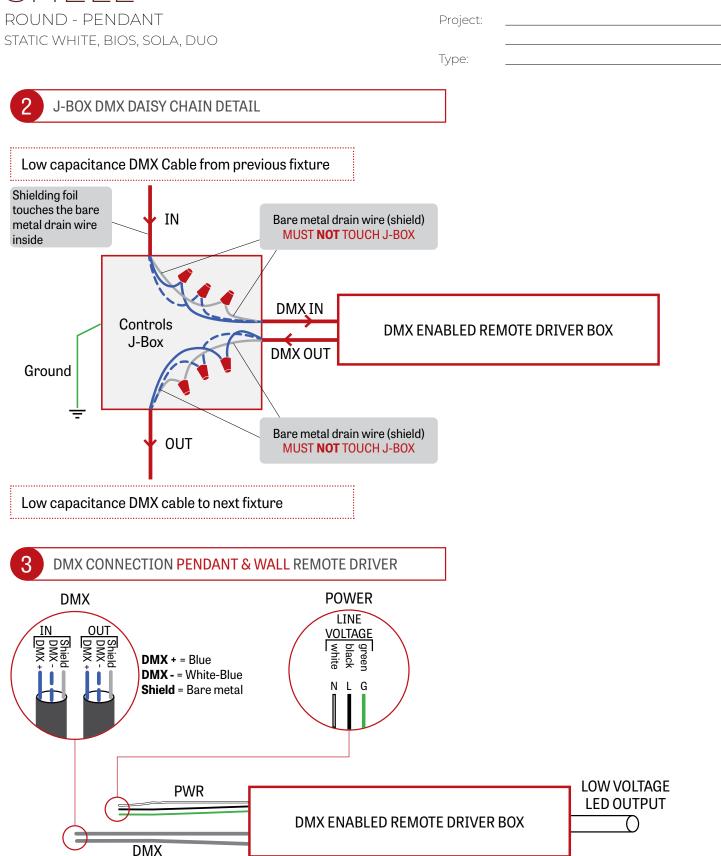
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