

AERA 5" CYLINDER

PENDANT

DIRECT/INDIRECT, DIRECT



Declare.



6" Height
Bevel

8" Height
Bevel

12" Height
Pinhole

Beam Angles



10° 15° 25° 35° 50° 80° 90° 80°-Up

Low UGR < 10 in 10°, 15°, 25°, 35°, and 50° beams

Performance

LUMEN OUTPUT ¹	WATTS	EFFICACY
1481 lm	14 W	106 lm/W
2066 lm	20 W	103 lm/W
2775 lm	28 W	99 lm/W
3163 lm	32 W	99 lm/W

¹ Lumen packages are assuming 3500K, 80+ CRI, 35° beam, bevel baffle, SDL lens option.

Light Source

Static White
Full Spectrum Static White
SOLA - Dim-to-Warm
DUO - Tunable White



COB

2 Step Color Binning
Up to 95+ CRI

Drivers / Protocols

1%, 0.1% Dimming Available
0-10V, TRIAC, ELV, Lutron EcoSystem, DALI, DMX
Emergency Battery (optional)



Smart / Wireless Compatible

Mounting Options



Flat Conduit Direct Deep

True-to-size with a versatile minimalist esthetic, Aera Cylinder luminaires are high-performance fixtures, delivering visually comfortable lighting suitable for a wide range of applications.

Aera Family (Refer to other spec sheets)

Downlight



2" / 3" / 4"
Round / Square
Recessed Adjustable



2" / 3" / 4"
Round / Square
Recessed



2" / 3" / 4"
Round / Square
Recessed Wall Wash

Multi-aperture



2" / 3" / 4"
Round / Square
Recessed Adjustable



2" / 3" / 4"
Round / Square
Recessed



2" / 3" / 4"
Round / Square
Recessed Wall Wash

Cylinder



2" / 3" / 4" / 5" / 6"
4" Seal
Pendant
Pendant Asymmetric
Pendant Wall Wash



2" / 3" / 4" / 5" / 6"
4" Seal
Wall
Wall Asymmetric



2" / 3" / 4" / 5" / 6"
4" Seal
Surface
Surface Asymmetric
Surface Wall Wash

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Project: _____

Type: _____

Order Guide

LUMINAIRE ID		DISTRIBUTION		CYLINDER HEIGHT		CYLINDER FINISH		BAFFLE STYLE		BAFFLE FINISH		LENS * See page 3 for details					
AE5CYP																	
AE5CYP - Aera 5" Cylinder Pendant	DI - Direct/Indirect D - Direct	DIRECT/INDIRECT ¹		DIRECT		FTMW - Matte white FTMB - Matte black FCHP - Champagne FDBZ - Dark bronze CF# - Custom finish, specify RAL#		BVL - Bevel PHL - Pinhole		FTMW - Matte white FTMB - Matte black FSPC - Satin silver FSSPC - Matte silver FCHP - Champagne FDBZ - Dark bronze CF# - Custom finish, specify RAL#		At baffle (choose 1 option) Specify NOL for Pinhole					
		6IN - 6" 8IN - 8" 12IN - 12"		6IN ² - 6" 8IN - 8" 12IN - 12"								SDL - Soft diffused lens, Solite					
		CH#IN ³ - Custom height										FDL - Frosted diffused lens					
		¹ Only available with DR canopy option when specified with integral drivers.										CL - Clear lens					
		² Not available with DMNC/DMRM canopy options when specified with integral drivers.										NOL - No lens					
		³ Specify height (#) in 1" increments only. Up to maximum 36". For minimum heights, see page 3.															
LIGHT SOURCE		DIRECT BEAM		COLOR QUALITY		CRI		COLOR TEMPERATURE		ACCESSORIES * See page 3 for details		VOLTAGE					
SW - Static white FS - Full spectrum static white	10DEG - 10° Very narrow spot 15DEG - 15° Narrow spot 25DEG - 25° Spot 35DEG - 35° Narrow flood 50DEG - 50° Wide flood 80DEG - 80° Very wide flood 90DEG - 90° Open flood			2STP ⁴ - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse		80CRI ⁵ - 80+ CRI 90CRI ⁵ - 90+ CRI 95CRI - 95+ CRI		22K ⁶ - 2200K 35K - 3500K 24K ⁷ - 2400K 40K - 4000K 27K - 2700K 50K ⁷ - 5000K 30K - 3000K		At light element ^{8,9} (choose up to 2 options for SW/FS and 1 option for SOLA/DUO)			120V - 120V 277V - 277V UNV - 120V-277V 347V ¹² - 347V				
	SOLA - Dim-to-warm single channel control DUO - Tunable white 2-channel control			⁴ Not available with full spectrum.		⁵ Not available with full spectrum.		⁶ Only available with 90+ CRI. ⁷ Not available with 95+ CRI.			LSDL - Soft diffused lens, Solite LFDL - Frosted diffused lens LS - Linear spread HEX ^{10,11} - Hex louver NA - None			¹² Only available with RD1 driver. Please consult factory.			
		25DEG - 25° Spot 35DEG - 35° Narrow flood 60DEG - 60° Wide flood 80DEG - 80° Very wide flood 90DEG - 90° Open flood			3STP - 3 Step MacAdam Ellipse		90CRI - 90+ CRI		SOLA 30K18K - 3000K to 1800K 27K18K - 2700K to 1800K DUO 65K27K - 6500K to 2700K 50K27K - 5000K to 2700K			⁸ Separate codes with a "+" if more than one is specified, e.g. LSDL+LS. ⁹ LSDL and LFDL cannot be combined. LS and HEX cannot be combined. ¹⁰ Not available with 80°/90° beam options. ¹¹ Not available with 32 W output.					
* LSDL or LFDL at light element cannot be combined with SDL, FDL, or CL at baffle.																	
DIRECT WATTAGE ¹³				INDIRECT WATTAGE ¹³ Specify NA for Direct				DIMMING ¹⁹				ELECTRICAL					
14W - 14 W output, up to 1538 lm 20W - 20 W output, up to 2146 lm 28W ^{14,15} - 28 W output, up to 2882 lm 32W ^{14,16} - 32 W output, up to 3285 lm				14W - 14 W output, up to 1102 lm 20W - 20 W output, up to 1550 lm 28W ^{14,15,18} - 28 W output, up to 2170 lm NA - Not applicable				INTEGRAL D1 - 1% 0-10V ELV ²⁰ - ELV 120V TRI ²⁰ - TRIAC 120V				REMOTE ²¹ RD1 - 1% 0-10V RELV ²² - ELV 120V RTRI ²² - TRIAC 120V RLDE1 ²³ - Lutron Hi-lume 1% Eco				1C - 1 circuit 2C ²⁵ - 2 circuits	
¹³ Lumen outputs are reduced with full spectrum, consult factory. ¹⁴ Not available with full spectrum. ¹⁵ Not available with integral drivers for a Direct/Indirect fixture.				¹⁶ Not available with integral drivers. ¹⁷ Not available for a Direct/Indirect fixture. ¹⁸ Not available with 32 W direct wattage.				¹⁹ PoE (Power-over-Ethernet) compatible. Consult factory for details. ²⁰ Only available with 120V.				²¹ A remote driver box is provided. ²² Only available with 120V. ²³ On-site commissioning is required.				²⁵ Only available with Direct/Indirect.	
SOLA 18W - 18 W output, up to 1205 lm 28W ¹⁵ - 28 W output, up to 1945 lm DUO 14W - 14 W output, up to 1005 lm 20W - 20 W output, up to 1435 lm 28W ¹⁷ - 28 W output, up to 2055 lm				SOLA 18W - 18 W output, up to 1205 lm DUO 14W - 14 W output, up to 1005 lm 20W - 20 W output, up to 1435 lm NA - not applicable				SOLA SD1 - Single 0-10V input SELV ²⁰ - ELV 120V STRI ²⁰ - TRIAC 120V				SOLA RSD1 - Single 0-10V input RSELV ²² - ELV 120V RSTRI ²² - TRIAC 120V				DUO RDMX ²³ - DMX RDDA ²³ - DALI DT6 RDDA8 ²³ - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RLD2 ²³ - Lutron DALI-2 digital +EB ²⁴ - Emergency battery	
CANOPY TYPE ²⁶				CANOPY FINISH				SUSPENSION									
FLR ²⁷ - Flat round canopy, 4" octagonal junction box CDR ²⁷ - Conduit feed, round canopy DMNC ^{27,28} - Direct mount, new construction DMRM ^{27,28,29} - Direct mount, remodel DR ³⁰ - Deep round canopy				FTMW - Matte white FTMB - Matte black FCHP - Champagne FDBZ - Dark bronze CF# - Custom finish, specify RAL#				POWER CORD ³¹ BPC##IN - Black PVC WPC##IN - White PVC				STEM ³² BKS##IN - Matte black stem WHS##IN - Matte white stem BKSS##IN ³³ - Matte black swivel stem WHSS##IN ³³ - Matte white swivel stem					
²⁶ See page 5 for details. ²⁷ Direct/Indirect requires a remote driver. ²⁸ 6" long cylinders require a remote driver. ²⁹ Single wiring entry only. No daisy chain connections allowed. ³⁰ Can accommodate up to 2 drivers.								³¹ Min 18" - max 72", specify length (##) in inches.				³² Min 10" - max 72", specify length (##) in inches. ³³ Not available with DMNC/DMRM/DR canopy options, or for 6" long cylinders when specified with FLR/CDR and integral driver. ³⁴ Maximum 20" cylinder height. ³⁵ Specify RAL#.					
												BKFCSS##IN ³⁴ - Matte black field-cutttable stem WHFCSS##IN ³⁴ - Matte white field-cutttable stem CF#S##IN ³⁵ - Custom finish stem CF#SS##IN ^{33,35} - Custom finish swivel stem CF#FCS##IN ^{34,35} - Custom finish field-cutttable stem					

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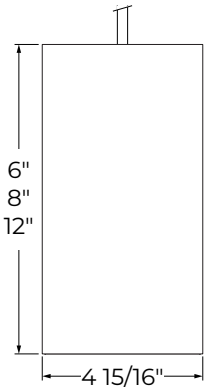
DIRECT/INDIRECT, DIRECT



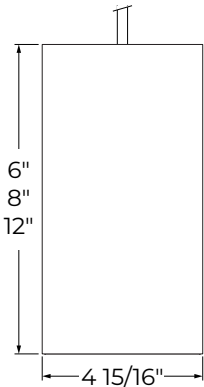
Dimensions

CYLINDER

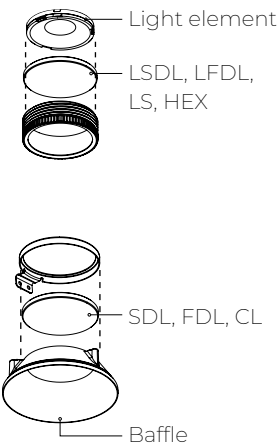
Direct/Indirect



Direct



Lens and Accessories



Minimum heights - Cylinder

Size	Distribution	Integral driver in cylinder	Integral driver in canopy or J-box	Remote driver
Ø 5"	Direct/Indirect	NA	6"	6"
	Direct	8"	6"	6"

*Consult factory for maximum heights.

BAFFLE

BVL Bevel	PHL Pinhole
Baffle finish Matte black	



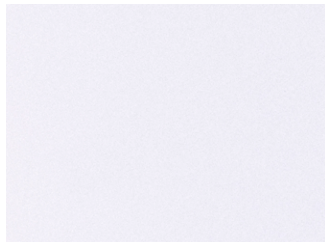
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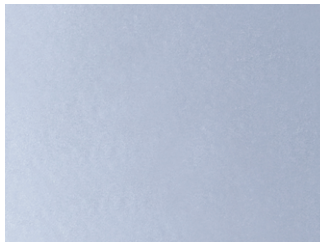
Finishes



FTMW - Matte white



FTMB - Matte black



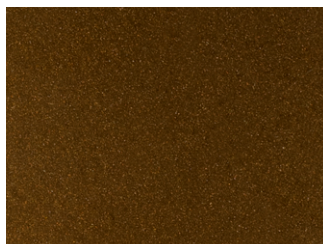
FSPC - Satin silver



FSSPC - Matte silver



FCHP - Champagne



FDBZ - Dark bronze

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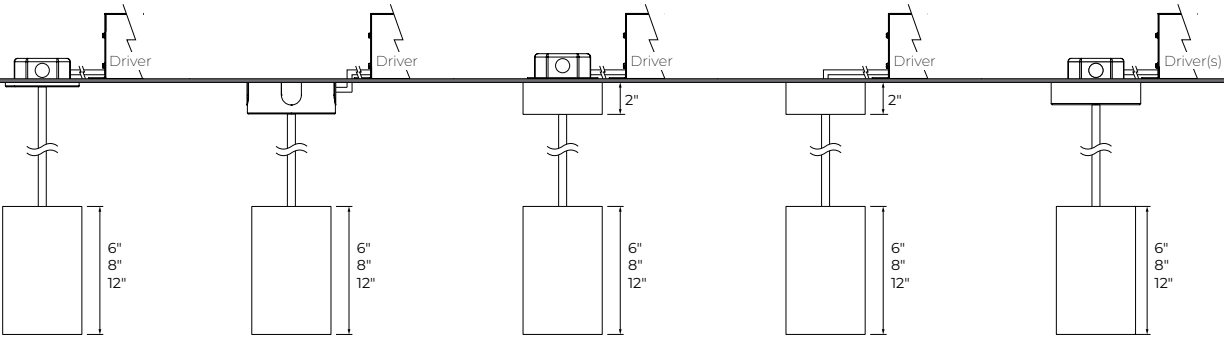
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Mounting

CANOPY

INTEGRAL DRIVER						
Order code	FLR Flat round canopy, 4" octagonal junction box		CDR Conduit feed, round canopy	DMNC Direct mount, new construction	DMRM Direct mount, remodel	DR Deep round canopy
Canopy type						
Distribution	Direct					Direct/Indirect Direct
Canopy size	Ø 4 1/2" Height 3/8"		Ø 5 1/2" Height 1 15/16"	Ø 4 15/16" Height 2"		Ø 5 5/8" Height 1 3/8"
Suspension	Power cord, Stem, Swivel stem ¹ , Field-cutttable stem ¹ Not available for 6" long cylinders specified with FLR/CDR.			Power cord, Stem, Field-cutttable stem		
Min. height	6" (Driver in junction box or cylinder depending on driver) 8" (Driver in cylinder)			8"		6"
				Single wiring entry only. No daisy chain connections allowed.		D/I - 2 drivers in canopy D - 1 driver in canopy or cylinder

REMOTE DRIVER						
Order code	FLR Flat round canopy, 4" octagonal junction box		CDR Conduit feed, round canopy	DMNC Direct mount, new construction	DMRM Direct mount, remodel	DR Deep round canopy
Canopy type						
Distribution	Direct/Indirect Direct					
Canopy size	Ø 4 1/2" Height 3/8"		Ø 5 1/2" Height 1 15/16"	Ø 4 15/16" Height 2"		Ø 5 5/8" Height 1 3/8"
Suspension	Power cord, Stem, Swivel stem, Field-cutttable stem			Power cord, Stem, Field-cutttable stem		
Min. height	6"					
				Single wiring entry only. No daisy chain connections allowed.		

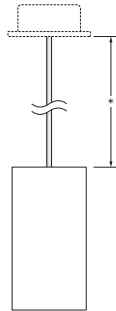
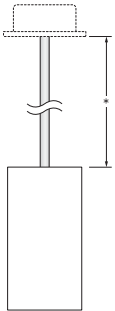
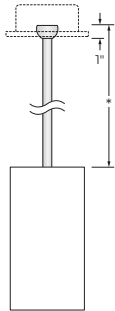
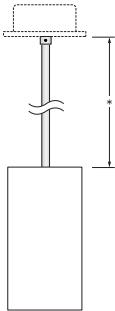
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SUSPENSION

POWER CORD	STEM		
PVC	Stem	Swivel stem ^{1,2}	Field-cutable stem ³
			
Power Cord Lengths (*)	Stem Lengths (*)		
Min 18" Max 72"	Min 10" Max 72"	Min 10" Max 72" Max 45° tilt	Min 10" Max 72"
	¹ Not available with DMNC/DMRM/DR canopy options, or for 6" long cylinders when specified with FLR/CDR and integral driver. ² The total stem length (*) includes the 1" swivel base located inside the canopy. ³ Maximum 20" cylinder height.		



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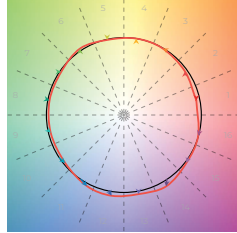
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Color Quality

COLOR QUALITY - 3500K

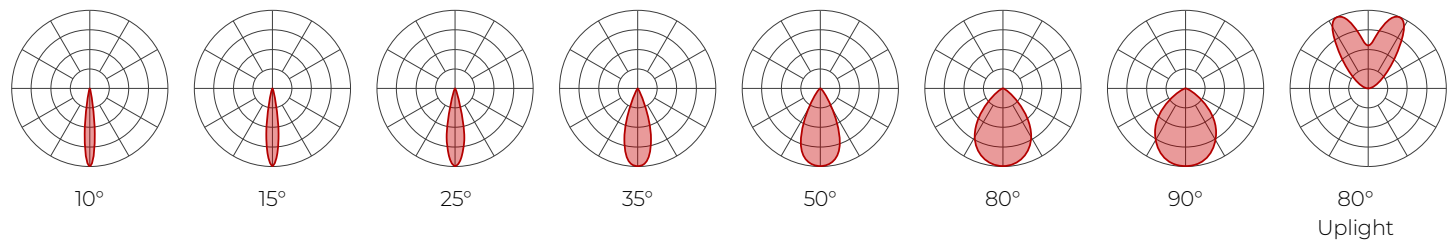
TM-30 R _r	90
TM-30 R _g	100
CRI	90+
R9	> 50



Photometrics

PENDANT

Values calculated based on 3500K, bevel baffle, and SDL lens option.



Delivered lumens (LM)

CRI	80+ CRI								90+ CRI								95+ CRI							
BEAM	10°	15°	25°	35°	50°	80°	90°	Uplight	10°	15°	25°	35°	50°	80°	90°	Uplight	10°	15°	25°	35°	50°	80°	90°	Uplight
14 W	1347	1497	1538	1481	1451	1306	1306	1102	1259	1399	1437	1384	1356	1220	1220	1029	969	1077	1106	1066	1044	940	940	792
20 W	1880	2089	2146	2066	2026	1823	1823	1550	1757	1952	2006	1931	1893	1704	1704	1448	1353	1503	1545	1487	1458	1312	1312	1114
28 W	2524	2804	2882	2775	2719	2447	2447	2170	2359	2621	2693	2593	2541	2287	2287	2027	1816	2018	2074	1997	1957	1761	1761	1560
32 W	2876	3196	3285	3163	3099	2789	2789	NA	2689	2988	3070	2956	2896	2607	2607	NA	2070	2300	2364	2276	2231	2007	2007	NA

Efficacy (LM/W)

CRI	80+ CRI								90+ CRI								95+ CRI							
BEAM	10°	15°	25°	35°	50°	80°	90°	Uplight	10°	15°	25°	35°	50°	80°	90°	Uplight	10°	15°	25°	35°	50°	80°	90°	Uplight
14 W	96	107	110	106	104	93	93	79	90	100	103	99	97	87	87	74	69	77	79	76	75	67	67	57
20 W	94	104	107	103	101	91	91	78	88	98	100	97	95	85	85	72	68	75	77	74	73	66	66	56
28 W	90	100	103	99	97	87	87	78	84	94	96	93	91	82	82	72	65	72	74	71	70	63	63	56
32 W	90	100	103	99	97	87	87	NA	84	93	96	92	90	81	81	NA	65	72	74	71	70	63	63	NA

MULTIPLIERS

Please follow the multiplier tables to ensure correct lumen value. Beams, CCT, baffle styles, baffle colors, lensing and accessories will change the lumen value.

CCT		BAFFLE STYLE AND COLOR			LENS * (At baffle)		ACCESSORIES * (At light element)	
2200K	0.80	Bevel	White	1	SDL - Soft diffused lens, Solite	1	LSDL - Soft diffused lens, Solite	1
2400K	0.87		Black	1				
2700K	0.94	Pinhole	White	0.92	FDL - Frosted lens	0.8	LFDL - Frosted lens	0.8
3000K	0.98		Black	0.92	CL - Clear lens	1.1	LS - Linear spread	0.84
3500K	1				NOL - No lens	1.1	HEX - Hex louver	0.86
4000K	1.05				* When more than one lens or accessory is specified, multiply together the value of each lens and/or accessory.			
5000K	1.05							

* When more than one lens or accessory is specified, multiply together the value of each lens and/or accessory.
e.g. NOL + LSDL + LS = 1.1 x 1 x 0.84 = 0.924

For SOLA and DUO, please consult factory.

DIRECT/INDIRECT - LPW CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\left(\frac{\text{DIRECT LM}}{\text{W}} + \frac{\text{UPLIGHT LM}}{\text{W}} \right) = \text{LPW}$$

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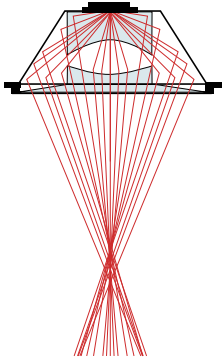
DIRECT/INDIRECT, DIRECT



Technical Specifications

OPTIC

XPoint™ Refraction Technology optics provide precise optical control in a remarkably compact form. Micro optical paths from the chip on board converge and then disperse in precise beam angles, resulting in a crisp and exacting light quality.



LIGHT SOURCE

Static white

Compact COB (Chip-On-Board) LED module, available in 2200K, 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K with a choice of 80+ CRI, 90+ CRI, or 95+ CRI, with elevated R9 value for 90+ CRI and above. Color consistency is maintained to within 2 SDCM. 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.

Full spectrum static white

The full spectrum LED option offers improved color particularly in the cyan region that is beneficial in both healthcare and circadian lighting strategies. The cyan region in full spectrum LED is richer at the 480 nm range.

Chromawerx SOLA

Chromawerx SOLA is single-channel control that dims output while warming the color temperature in a pre-determined relationship. Two color temperature range options are offered: 3000K to 1800K, and 2700K to 1800K. 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 to warm LED arrays - maintaining a CRI above 90. Two color temperature range options are offered: 6500K to 2700K, and 5000K to 2700K. 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. When paired with DALI drivers (DDA/DDA8), color tuning follows a linear dimming curve.

ELECTRICAL

Unless otherwise specified, dimming down to 1%. At maximum driver load: efficiency >84%, PF >0.9, THD <20%. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

Integral: 0-10V, ELV, TRIAC

Remote: 0-10V, ELV, TRIAC, Lutron Hi-Lume 1% EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V, DMX, Lutron DALI-2 digital

Emergency battery option: Remotely-installed, long-life, high-temperature, maintenance-free, Bodine Lithium-Ion battery pack with self-test functionality, test switch and charge indicator. IOTA and Fulham options available upon request. Minimum of 90 minutes operation, and recharge time of 24 hours. For fixtures less than 10 W, the battery provides 6 W of emergency light output. For fixtures 10 W and over, the battery provides 10 W.

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), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

CONSTRUCTION

Housing: Die-cast and extruded aluminum

Power cord: Black and white PVC, 18" to 72" standard length

Stem: Ø 1/2" rigid stem, swivel stem, and field-cutable stem 10" to 72" standard length

Canopy: Flat, conduit feed, direct, and deep

Finish: Matte white, matte black, champagne, and dark bronze. Custom colors also available (provide RAL #). Satin silver and matte silver finishes are also available for Baffle.

Heat sink: Die-cast aluminum

Baffle: Die-cast aluminum

Baffle style: Bevel and pinhole

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DIRECT/INDIRECT, DIRECT



WEIGHT

Direct/Indirect	Direct
6": 3.4 lbs - 1.5 kg	6": 2.5 lbs - 1.1 kg
8": 4.5 lbs - 2 kg	8": 3.5 lbs - 1.5 kg
12": 5 lbs - 2.2 kg	12": 4 lbs - 1.8 kg

LENS AND ACCESSORIES



ENVIRONMENT

Ambient temperature at fixture location shall be within 0°C/32°F - 25°C/77°F, indoor dry or damp as well as outdoor damp use (canopies or marquees).

CERTIFICATIONS

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.
Declare: [LBC Red List Approved](#)

WARRANTY

Lumenwerx provides a five-year limited warranty on 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.

