

AERA 5" CYLINDER

WALL

DIRECT/INDIRECT, DIRECT, INDIRECT



Declare.



6" Height
Bevel



8" Height
Bevel



12" Height
Pinhole

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.

Distributions



Direct Direct
/Indirect Indirect

Mounting Options



Flat Direct

Beam Angles



15° 25° 35° 50° 80° 90°
Low UGR < 10 in 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
SOLA - Dim-to-Warm
DUO - Tunable White



COB

2 Step Color Binning
Up to 95 CRI

Driver

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

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"
4" Seal
Pendant
Pendant Asymmetric
Pendant Wall Wash



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



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

AERA 5" CYLINDER

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DIRECT/INDIRECT, DIRECT, INDIRECT



Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	CYLINDER HEIGHT ¹		CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE5CYW						
AE5CYW - Aera 5" Cylinder Wall	DI - Direct/ Indirect D - Direct I - Indirect	DIRECT/INDIRECT	DIRECT OR INDIRECT	FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL#	BVL - Bevel PHL - Pinhole	FTMW - Textured matte white FTMB - Textured matte black FSPC - Specular FSSPC - Semi-specular FCHP - Champagne CF# - Custom finish, specify RAL#
		8IN ² - 8"	6IN ² - 6"			
		12IN - 12"	8IN - 8"			
		14IN - 14"	12IN - 12"			
		14IN - 14"				
¹ For minimum heights, see dimensions on page 3.						
² Available with remote driver only.						

LENS * See page 3 for details	LIGHT SOURCE	DIRECT BEAM Specify NA for Indirect	INDIRECT BEAM Specify NA for Direct	COLOR QUALITY	CRI	COLOR TEMP.	ACCESSORIES * See page 3 for details	VOLTAGE
At baffle (choose 1 option) Specify NOL for Pinhole SDL - Soft diffused lens, Solite FDL - Frosted diffused lens CL - Clear lens NOL - No lens	SW - Static white FS - Full spectrum SOLA - Dim-to-warm single channel control DUO - Tunable white 2-channel control	15DEG - 15° Narrow spot 25DEG - 25° Spot 35DEG - 35° Narrow flood 50DEG - 50° Wide flood 80DEG - 80° Very wide flood 90DEG - 90° Open flood NA - Not applicable	15DEG - 15° Narrow spot 25DEG - 25° Spot 35DEG - 35° Narrow flood 50DEG - 50° Wide flood 80DEG - 80° Very wide flood 90DEG - 90° Open flood NA - Not applicable	2STP ³ - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse ³ Not available with full spectrum.	90CRI ⁴ - 90 CRI 95CRI - 95 CRI 80CRI ⁴ - 80 CRI ⁴ Not available with full spectrum.	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K SOLA ⁵ - Dim-to-warm single channel control DUO ⁶ - Tunable white 2-channel control ⁵ 3500K to 2200K ⁶ 6500K to 2700K	At light element ^{7,8} (choose up to 2 options) LSDL - Soft diffused lens, Solite LFDL - Frosted diffused lens LS - Linear spread HEX ^{9,10} - Hex louver NA - None ⁷ Separate codes with a "+" if more than one is specified, e.g. LSDL+LS. ⁸ LSDL and LFDL cannot be combined. LS and HEX cannot be combined. ⁹ Not available with 80°/90° beam options. ¹⁰ Not available with 32 W output.	120V - 120V 277V - 277V UNV - 120V-277V 347V ¹¹ - 347V ¹¹ Available with RD1 driver only. Please consult factory.
		50DEG - 50° Wide flood NA - Not applicable	50DEG - 50° Wide flood NA - Not applicable	3STP - 3 Step MacAdam Ellipse	90CRI - 90 CRI			

* LSDL or LFDL at light element cannot be combined with SDL, FDL, or CL at baffle. For SOLA/DUO, one of the following lenses must be specified: SDL, FDL, LSDL, or LFDL.

DIRECT WATTAGE ¹² Specify NA for Indirect	INDIRECT WATTAGE ¹² Specify NA for Direct	DIMMING ¹⁸	
14W - 14 W output, up to 1538 lm 20W - 20 W output, up to 2146 lm 28W ^{13,14,15} - 28 W output, up to 2882 lm 32W ^{13,16} - 32 W output, up to 3285 lm NA - Not applicable ¹² Lumen outputs are reduced with full spectrum, consult factory. ¹³ Not available with full spectrum. ¹⁴ Not available with integral drivers for a Direct/Indirect fixture. ¹⁵ Not available with 32W indirect wattage. ¹⁶ Not available with integral drivers. ¹⁷ Not available with 32W direct wattage.	14W - 14 W output, up to 1538 lm 20W - 20 W output, up to 2146 lm 28W ^{13,14,17} - 28 W output, up to 2882 lm 32W ^{13,16} - 32 W output, up to 3285 lm NA - Not applicable SOLA 25W - 25 W output, up to 1400 lm DUO 19W - 19 W output, up to 1100 lm NA - Not applicable	INTEGRAL D1 - 1% 0-10V ELV ¹⁹ - ELV 120V TRI ¹⁹ - TRIAC 120V ¹⁸ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁹ Available with 120V only.	REMOTE ²⁰ RD1 - 1% 0-10V RELV ²¹ - ELV 120V RTRI ²¹ - TRIAC 120V RLDEI ²² - Lutron Hi-lume 1% Eco RDA ²² - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELDO - eldoLED 0.1% SOLOdrive 0-10V +EB ²³ - Emergency battery ²⁰ A remote driver box is provided, see page 4 for details. ²¹ Available with 120V only. ²² On-site commissioning is required. ²³ For emergency battery, code will be like the following example: RD1+EB.
		SOLA SD1 - Single 0-10V input SELV ¹⁹ - ELV 120V STRI ¹⁹ - TRIAC 120V	SOLA RSD1 - Single 0-10V input RSELV ²¹ - ELV 120V RSTRI ²¹ - TRIAC 120V
			DUO RDMX ²² - DMX RDDA ²² - DALI DT6 RDDA8 ²² - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RLD2 ²² - Lutron DALI-2 digital

ELECTRICAL	MOUNTING TYPE	MOUNTING FINISH ²⁵
1C - 1 circuit 2C ²⁴ - 2 circuits ²⁴ Available with Direct/Indirect and remote driver only.	FLS - Flat square canopy, 4" octagonal junction box DM - Direct mount	FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL# ²⁵ Direct mount finish matches cylinder finish.

AERA 5" CYLINDER

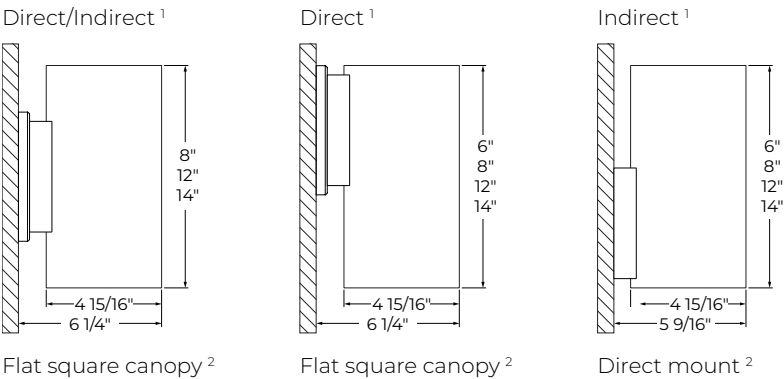
WALL

DIRECT/INDIRECT, DIRECT, INDIRECT



Dimensions

CYLINDER



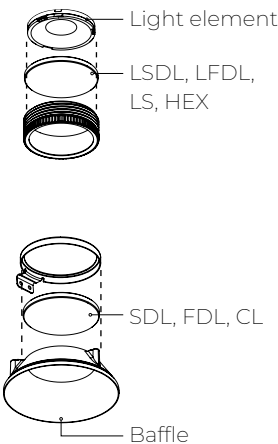
¹Certain restrictions apply. See page 2 for the height options available with integral and remote.
²Flat square canopy and direct mount options are available with all Direct/Indirect, Direct and Indirect.

Minimum heights - Cylinder

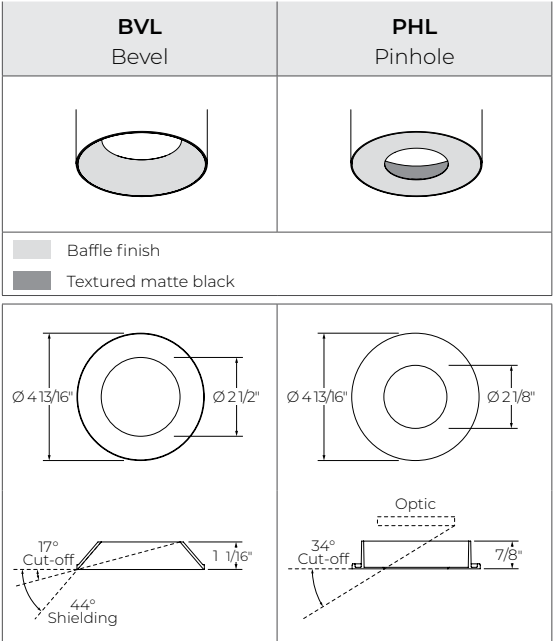
Size	Distribution	Integral driver	Remote driver
Ø 5"	Direct/Indirect	12"	8"
	Direct or Indirect	8"	6"

*Consult factory for maximum heights.

Lens and Accessories



BAFFLE



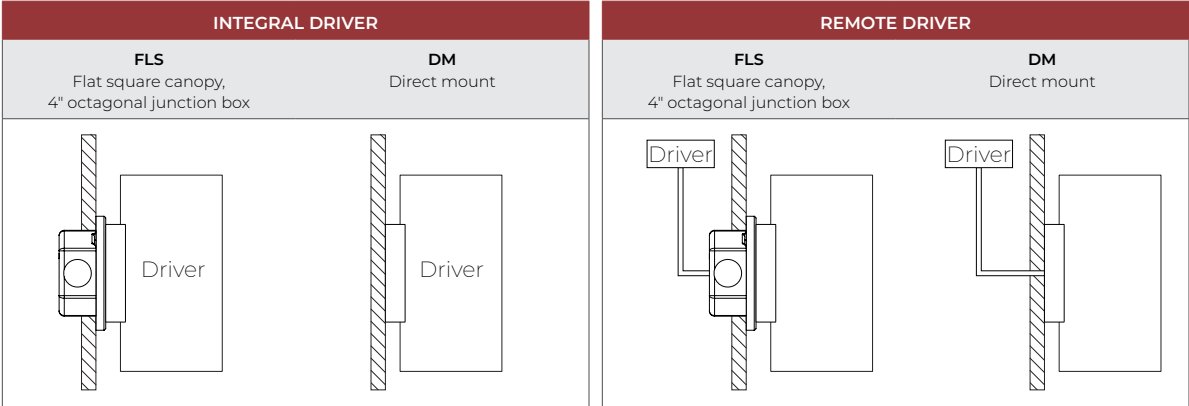
AERA 5" CYLINDER

WALL

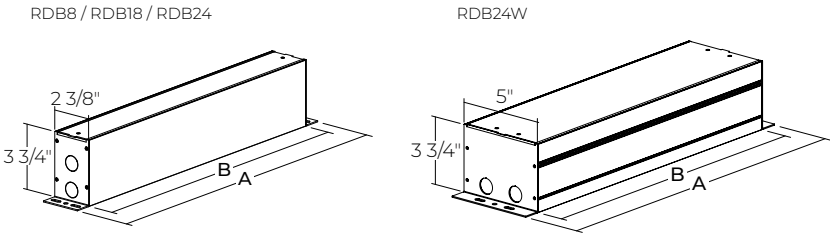
DIRECT/INDIRECT, DIRECT, INDIRECT



Mounting



REMOTE DRIVER BOX



	RDB8	RDB18	RDB24	RDB24W
A	10"	20"	26"	26"
B	8"	18"	24"	24"
DRIVER	RD1 - 1% 0-10V RELV - ELV 120V RTRI - TRIAC 120V	RLDE1 - Lutron Hi-lume 1% Eco RDA - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V	Emergency battery (+EB) with the following driver options. RD1+EB - 1% 0-10V RELV+EB - ELV 120V RTRI+EB - TRIAC 120V	Emergency battery (+EB) with the following driver options. RLDE1+EB - Lutron Hi-lume 1% Eco RDA+EB - DALI RELD1+EB - eldoLED 1% ECOdrive 0-10V RELD0+EB - eldoLED 0.1% SOLOdrive 0-10V
	SOLA RSD1 - Single 0-10V input RSELV - ELV 120V RSTRI - TRIAC 120V		DUO RDMX - DMX RDDA - DALI DT6 RDDA8 - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RLD2 - Lutron DALI-2 digital	



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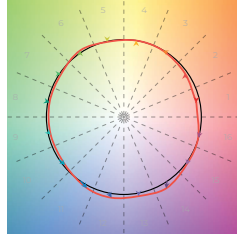
DIRECT/INDIRECT, DIRECT, INDIRECT



Color Quality

COLOR QUALITY - 3500K

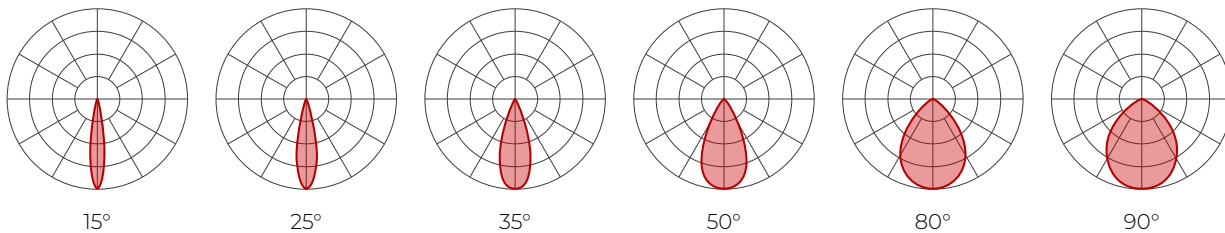
TM-30 R _r	90
TM-30 R _g	100
CRI	90
R9	> 50



Photometrics

WALL

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



Delivered lumens

CRI	90 CRI						95 CRI						80 CRI					
BEAM	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°
14 W	1399	1437	1384	1356	1220	1220	1077	1106	1066	1044	940	940	1497	1538	1481	1451	1306	1306
20 W	1952	2006	1931	1893	1704	1704	1503	1545	1487	1458	1312	1312	2089	2146	2066	2026	1823	1823
28 W	2621	2693	2593	2541	2287	2287	2018	2074	1997	1957	1761	1761	2804	2882	2775	2719	2447	2447
32 W	2988	3070	2956	2896	2607	2607	2300	2364	2276	2231	2007	2007	3196	3285	3163	3099	2789	2789

Efficacy

CRI	90 CRI						95 CRI						80 CRI					
BEAM	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°	15°	25°	35°	50°	80°	90°
14 W	100	103	99	97	87	87	77	79	76	75	67	67	107	110	106	104	93	93
20 W	98	100	97	95	85	85	75	77	74	73	66	66	104	107	103	101	91	91
28 W	94	96	93	91	82	82	72	74	71	70	63	63	100	103	99	97	87	87
32 W	93	96	92	90	81	81	72	74	71	70	63	63	100	103	99	97	87	87

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)	
2700K	0.9	Bevel	White	1	SDL - Soft diffused lens, Solite	1	LSDL - Soft diffused lens, Solite	1
3000K	0.95		Black	1				
3500K	1	Pinhole	White	0.92	FDL - Frosted lens	0.8	LFDL - Frosted lens	0.8
4000K	1.05		Black	0.92	CL - Clear lens	1.1	LS - Linear spread	0.84
					NOL - No lens	1.1	HEX - Hex louver	0.86

For SOLA and DUO, please consult factory.

* 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

DIRECT/INDIRECT - EFFICACY CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\left(\frac{\text{DIRECT DELIVERED LM} + \text{INDIRECT DELIVERED LM}}{\text{DIRECT WATTAGE} + \text{INDIRECT WATTAGE}} \right) = \text{EFFICACY}$$

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WALL

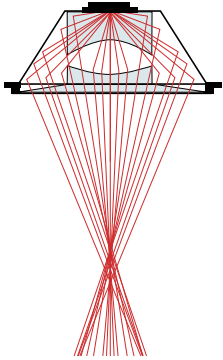
DIRECT/INDIRECT, DIRECT, INDIRECT



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 2700K, 3000K, 3500K and 4000K 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

The full spectrum LED option offers improved color particularly in the cyan region which helps increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms. 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%.

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: Extruded aluminum

Canopy: Flat and direct

Arm: Machined aluminum

Finish: Textured matte white, black, and champagne. Custom colors also available (provide RAL #). Specular and semi-specular finishes are also available for Baffle.

Heat sink: Die-cast aluminum

Baffle: Die-cast aluminum

Baffle style: Bevel and pinhole

AERA 5" CYLINDER

WALL

DIRECT/INDIRECT, DIRECT, INDIRECT



WEIGHT

Direct/Indirect	Direct or Indirect
8": 4.5 lbs - 2 kg	6": 3.5 lbs - 1.5 kg
12": 5 lbs - 2.2 kg	8": 3.5 lbs - 1.5 kg
14": 5.5 lbs - 2.5 kg	12": 4 lbs - 1.8 kg
	14": 4.5 lbs - 2 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).

CERTIFICATION

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 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.

