

AERA 5" CYLINDER

WALL

DIRECT/INDIRECT, DIRECT, INDIRECT

LUMENWERX



Project: _____

Type: _____



6" Height
Bevel



8" Height
Bevel



12" Height
Pinhole

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

Beam Angles

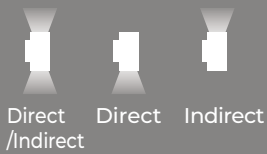


Performance

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.

Distributions



Mounting Options



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

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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" 12IN - 12" 14IN - 14"	6IN ² - 6" 8IN - 8" 12IN - 12" 14IN - 14"			
		¹ For minimum heights, see dimensions on page 3.				
		² Available with remote driver only.				

LENS *	LIGHT SOURCE	DIRECT BEAM Specify NA for Indirect	INDIRECT BEAM Specify NA for Direct	COLOR QUALITY	CRI	COLOR TEMP.	ACCESSORIES *	VOLTAGE
At baffle (choose 1 option) Specify NOL for Pinhole	SW - Static white FS - Full spectrum	15DEG - 15° Narrow spot 25DEG - 25° Spot 35DEG - 35° Narrow flood	15DEG - 15° Narrow spot 25DEG - 25° Spot 35DEG - 35° Narrow flood	2STP ³ - 2 Step MacAdam Ellipse	90CRI ⁴ - 90 CRI 95CRI - 95 CRI 80CRI ⁴ - 80 CRI	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	At light element ^{5,6} (choose up to 2 options)	120V - 120V 277V - 277V UNV - 120V-277V 347V ⁷ - 347V
SDL - Soft diffused lens, Solite FDL - Frosted diffused lens CL - Clear lens NOL - No lens	SOLA - Dim-to-warm single channel control 35K to 22K DUO - Tunable white 2-channel control 65K to 27K	50DEG - 50° Wide flood 80DEG - 80° Very wide flood 90DEG - 90° Open flood NA - Not applicable	50DEG - 50° Wide flood 80DEG - 80° Very wide flood 90DEG - 90° Open flood NA - Not applicable	3STP - 3 Step MacAdam Ellipse	90CRI - 90 CRI	SOLA - Dim-to-warm single channel control 35K to 22K DUO - Tunable white 2-channel control 65K to 27K	LSDL - Soft diffused lens, Solite LFDL - Frosted diffused lens LS - Linear spread HEX - Hex louver NA - None	⁷ Available with RDI 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		⁵ If two options are specified, separate codes with a "+", e.g. LSDL+HEX. ⁶ LSDL and LFDL cannot be combined. LS and HEX cannot be combined.	

* 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 ⁸ Specify NA for Indirect	INDIRECT WATTAGE ⁸ Specify NA for Direct	DIMMING ¹⁴	
14W - 14 W output, up to 1538 lm 20W - 20 W output, up to 2146 lm 28W ^{9,10,11} - 28 W output, up to 2882 lm 32W ^{9,12} - 32 W output, up to 3285 lm NA - Not applicable	14W - 14 W output, up to 1538 lm 20W - 20 W output, up to 2146 lm 28W ^{9,10,13} - 28 W output, up to 2882 lm 32W ^{9,12} - 32 W output, up to 3285 lm NA - Not applicable	INTEGRAL	REMOTE ¹⁶
⁸ Lumen outputs are reduced with full spectrum, consult factory. ⁹ Not available with full spectrum. ¹⁰ Not available with integral drivers for a Direct/Indirect fixture. ¹¹ Not available with 32W indirect wattage. ¹² Not available with integral drivers. ¹³ Not available with 32W direct wattage.		D1 - 1% 0-10V ELV ¹⁵ - ELV 120V TRI ¹⁵ - TRIAC 120V	RDI - 1% 0-10V RELV ¹⁷ - ELV 120V RTRI ¹⁷ - TRIAC 120V RLDE1 ¹⁸ - Lutron Hi-Lume 1% Eco RDA ¹⁸ - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELDO - eldoLED 0.1% SOLOdrive 0-10V +EB ¹⁹ - Emergency battery
SOLA 25W - 25 W output, up to 1400 lm	SOLA 25W - 25 W output, up to 1400 lm	¹⁴ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁵ Available with 120V only.	¹⁶ A remote driver box is provided, see page 4 for details. ¹⁷ Available with 120V only. ¹⁸ On-site commissioning is required. ¹⁹ For emergency battery, code will be like the following example: RDI+EB.
DUO 19W - 19 W output, up to 1100 lm NA - Not applicable	DUO 19W - 19 W output, up to 1100 lm NA - Not applicable	SOLA SD1 - Single 0-10V input SELV ¹⁵ - ELV 120V STRI ¹⁵ - TRIAC 120V	SOLA RSD1 - Single 0-10V input RSELV ¹⁷ - ELV 120V RSTRI ¹⁷ - TRIAC 120V DUO RDMX ¹⁸ - DMX RDDA ¹⁸ - DALI DT6 RDDA8 ¹⁸ - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RPSQO ¹⁸ - Lutron T-Series 1% tunable white

ELECTRICAL	MOUNTING TYPE	MOUNTING FINISH ²¹
1C - 1 circuit 2C ²⁰ - 2 circuits ²⁰ 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#
		²¹ Direct mount finish matches cylinder finish.

AERA 5" CYLINDER

LUMENWERX

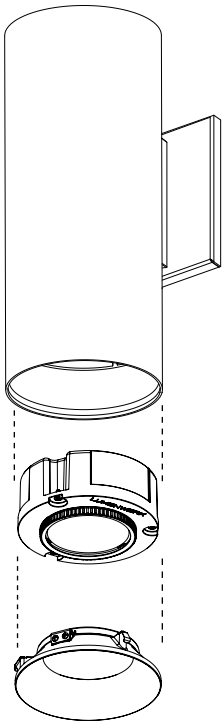
WALL

DIRECT/INDIRECT, DIRECT, INDIRECT

Overview

FLS

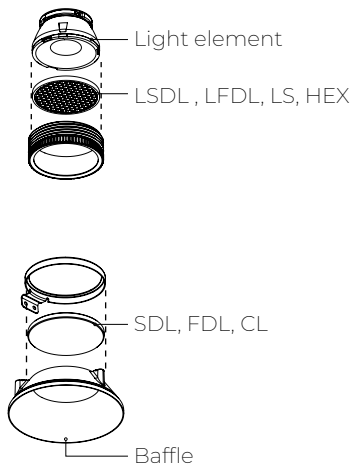
Flat square canopy,
4" octagonal junction box



AE5CYW

Aera 5"
Cylinder
Wall

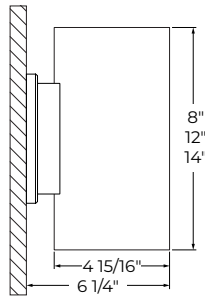
LENS AND ACCESSORIES



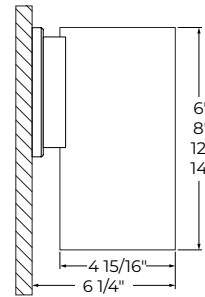
Dimensions

CYLINDER

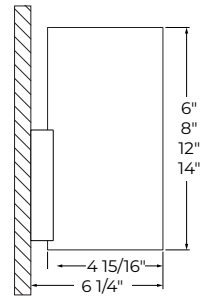
Direct/Indirect¹



Direct¹



Indirect¹



Flat square canopy²

Flat square canopy²

Direct mount²

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
Ø5"	Direct/Indirect	12"	8"
	Direct or Indirect	8"	6"

*Consult factory for maximum heights.

BAFFLE

BVL Bevel	PHL Pinhole
<p>■ Baffle finish</p> <p>■ Textured matte black</p>	

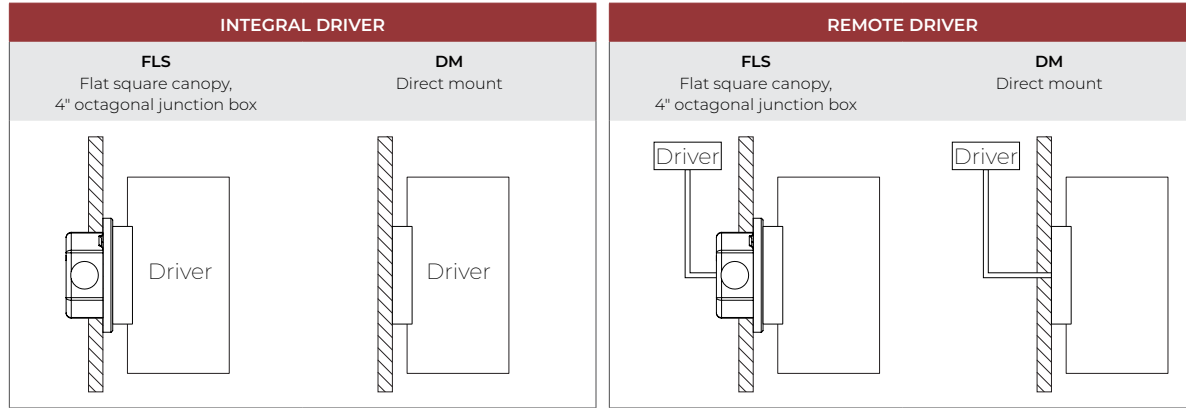
AERA 5" CYLINDER

LUMENWERX

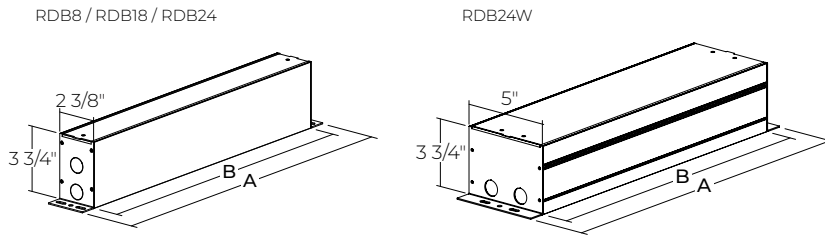
WALL

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 SOLA RSD1 - Single 0-10V input RSELV - ELV 120V RSTRI - 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 DUO RDMX - DMX RDDA - DALI DT6 RDDA8 - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RPSQ0 - Lutron T-Series 1% tunable white	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

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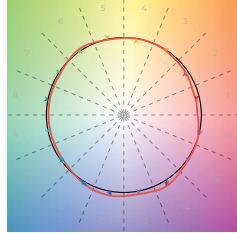
WALL

DIRECT/INDIRECT, DIRECT, INDIRECT

Color Quality

COLOR QUALITY - 3500K

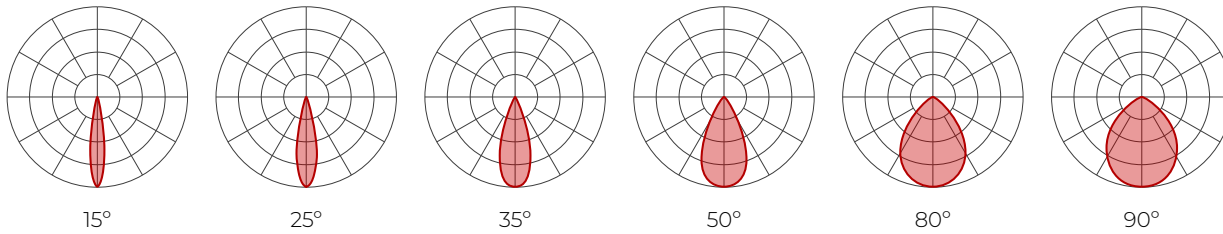
TM-30 Rr	90
TM-30 Ra	100
CRI	90
R9	> 50



Photometrics

Please follow the multiplier tables to ensure correct lumen value. Beams, CCT, baffle styles, baffle colors, lensing and accessories will change the lumen value. Performance values apply to both Direct and Indirect.

WALL



Delivered Lumens for Bevel Baffles - At 35K, with SDL lens option

CRI	90 CRI						95 CRI						80 CRI					
	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 Based on Delivered Lumens

CRI	90 CRI						95 CRI						80 CRI					
	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

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
3000K	0.95		Black	1	FDL - Frosted lens	0.8	LFDL - Frosted lens	0.8
3500K	1	Pinhole	White	0.92	CL - Clear lens	1.1	LS - Linear spread	0.84
4000K	1.05		Black	0.92	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 + HEX = 1.1 x 1 x 0.86 = 0.946

DIRECT/INDIRECT - EFFICACY CALCULATION

For Direct/Indirect performance values, follow the formula.

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

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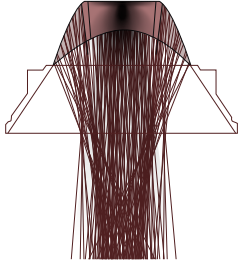
DIRECT/INDIRECT, DIRECT, INDIRECT

LUMENWERX

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

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

CHROMAWERX

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. 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 T-series (tunable white).

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 10W, the battery provides 6W of emergency light output. For fixtures 10W and over, the battery provides 10W.

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.

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

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

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DIRECT/INDIRECT, DIRECT, INDIRECT

BAFFLE

Die-cast aluminum

Baffle style: Bevel and pinhole.

LENS AND ACCESSORIES



Soft diffused lens, Solite



Frosted diffused lens



Clear lens



Linear Spread



Hex Louver

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.

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.