

AERA 5" CYLINDER SURFACE



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.

Mounting Options



Conduit Direct

Beam Angles



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
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

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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Project: _____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE5CYS	D				
AE5CYS - Aera 5" Cylinder Surface	D - Direct	6IN ¹ - 6" 8IN - 8" 12IN - 12" CH#IN ² - Custom height ¹ Not available with DMNC/DMRM canopy options when specified with integral drivers. ² Specify height (#) in 1" increments only. Up to maximum 36". For minimum heights, see page 3.	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#

LENS * See page 3 for details	LIGHT SOURCE	BEAM	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 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 ³ - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse ³ Not available with full spectrum static white.	80CRI ⁴ - 80+ CRI 90CRI ⁴ - 90+ CRI 95CRI ²⁴ - 95+ CRI ⁴ Not available with full spectrum static white. ²⁴ Not available with 2400K and 5000K.	24K - 2400K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	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 RDI driver only. Please consult factory.
	SOLA - Dim- to-warm single channel control DUO - Tunable white 2-channel control	50DEG - 50° Wide flood	3STP - 3 Step MacAdam Ellipse	90CRI - 90+ CRI	SOLA ⁵ - Dim- to-warm single channel control DUO ⁶ - Tunable white 2-channel control ⁵ 3500K to 2200K ⁶ 6500K to 2700K		

* 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.

WATTAGE ¹²	DIMMING ¹⁵	CANOPY TYPE ²¹	CANOPY FINISH Specify NA for DM
14W - 14 W output, up to 1538 lm 20W - 20 W output, up to 2146 lm 28W ¹³ - 28 W output, up to 2882 lm 32W ^{13,14} - 32 W output, up to 3285 lm ¹² Lumen outputs are reduced with full spectrum, consult factory. ¹³ Not available with full spectrum. ¹⁴ Not available with integral drivers.	INTEGRAL DI - 1% 0-10V ELV ¹⁶ - ELV 120V TRI ¹⁶ - TRIAC 120V ¹⁵ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁶ Available with 120V only.	REMOTE ¹⁷ RD1 - 1% 0-10V RELV ¹⁸ - ELV 120V RTRI ¹⁸ - TRIAC 120V RLDE1 ¹⁹ - Lutron Hi-lume 1% Eco RDA ¹⁹ - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V +EB ²⁰ - Emergency battery ¹⁷ A remote driver box is provided, see page 4 for details. ¹⁸ Available with 120V only. ¹⁹ On-site commissioning is required. ²⁰ For emergency battery, code will be like the following example: RD1+EB.	CDR - Conduit feed, round canopy DMNC ²² - Direct mount, new construction DMRM ^{22,23} - Direct mount, remodel ²¹ See page 4 for details. ²² 6" long cylinders require a remote driver. ²³ Single wiring entry only. No daisy chain connections allowed.
<u>SOLA</u> 25W - 25 W output, up to 1400 lm <u>DUO</u> 19W - 19 W output, up to 1100 lm	<u>SOLA</u> SD1 - Single 0-10V input SELV ¹⁶ - ELV 120V STRI ¹⁶ - TRIAC 120V	<u>SOLA</u> RSD1 - Single 0-10V input RSELV ¹⁸ - ELV 120V RSTRI ¹⁸ - TRIAC 120V <u>DUO</u> RDMX ¹⁹ - DMX RDDA ¹⁹ - DALI DT6 RDDA8 ¹⁹ - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RLD2 ¹⁹ - Lutron DALI-2 digital	FTMW - Matte white FTMB - Matte black FCHP - Champagne FDBZ - Dark bronze CF# - Custom finish, specify RAL# NA - Not applicable



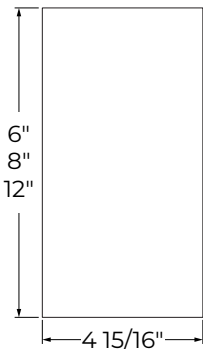
AERA 5" CYLINDER

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Dimensions

CYLINDER

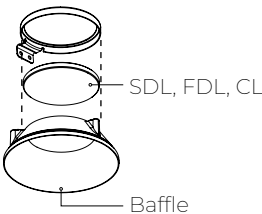
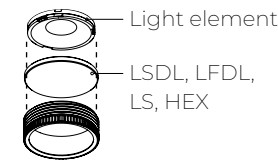


Minimum heights - Cylinder

Size	Integral driver in cylinder	Integral driver in J-box	Remote driver
Ø 5"	8"	6"	6"

* Consult factory for maximum heights.

Lens and Accessories



BAFFLE

BVL Bevel	PHL Pinhole
<div> <div></div> Baffle finish <div></div> Matte black </div>	



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Mounting

CANOPY

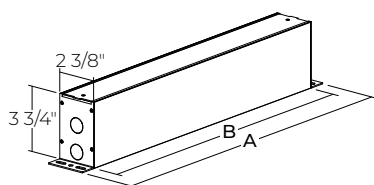
INTEGRAL DRIVER			
Order code	CDR Conduit feed, round canopy	DMNC Direct mount, new construction	DMRM * Direct mount, remodel
Canopy type			
Canopy size	Ø 5 1/2" Height 1 15/16"	NA	
Min. height	6" (Driver in junction box or cylinder depending on driver) 8" (Driver in cylinder)	8"	

REMOTE DRIVER			
	CDR Conduit feed, round canopy	DMNC Direct mount, new construction	DMRM * Direct mount, remodel
	Ø 5 1/2" Height 1 15/16"	NA	
	6"		

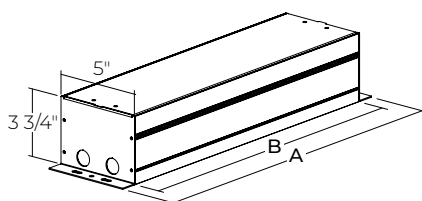
* Single wiring entry only. No daisy chain connections allowed.

REMOTE DRIVER BOX

RDB8 / RDB18 / RDB24



RDB24W



	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 RLD2 - Lutron DALI-2 digital	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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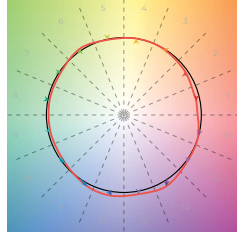
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Color Quality

COLOR QUALITY - 3500K

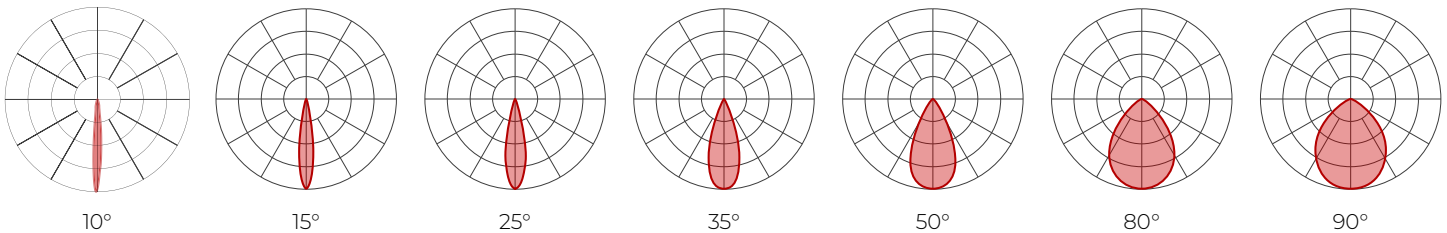
TM-30 R _r	90
TM-30 R _g	100
CRI	90
R9	> 50



Photometrics

SURFACE

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



Delivered lumens

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

Efficacy

CRI	90 CRI							95 CRI							80 CRI						
BEAM	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°
14 W	90	100	103	99	97	87	87	69	77	79	76	75	67	67	96	107	110	106	104	93	93
20 W	88	98	100	97	95	85	85	68	75	77	74	73	66	66	94	104	107	103	101	91	91
28 W	84	94	96	93	91	82	82	65	72	74	71	70	63	63	90	100	103	99	97	87	87
32 W	84	93	96	92	90	81	81	65	72	74	71	70	63	63	90	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)	
2400K	Bevel	White	1	SDL - Soft diffused lens, Solite	1	LSDL - Soft diffused lens, Solite	1
2700K		Black	1	FDL - Frosted lens	0.8	LFDL - Frosted lens	0.8
3000K	Pinhole	White	0.92	CL - Clear lens	1.1	LS - Linear spread	0.84
3500K		Black	0.92	NOL - No lens	1.1	HEX - Hex louver	0.86
4000K				* When more than one lens or accessory is specified, multiply together the value of each lens and/or accessory.			
5000K				e.g. NOL + LSDL + LS = 1.1 x 1 x 0.84 = 0.924			

For SOLA and DUO, please consult factory.

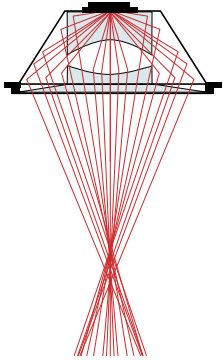
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Technical Specifications

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 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 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: Die-cast and extruded aluminum

Canopy: Conduit feed and direct

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

WEIGHT

6": 2.5 lbs - 1.1 kg

8": 3.5 lbs - 1.5 kg

12": 4 lbs - 1.8 kg

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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.

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.