AERA 5" CYLINDER
SURFACE

Lumenwerx

5 YEAR WARRANTY

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

| 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

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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** - 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#

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	**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.	**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	**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.
	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.
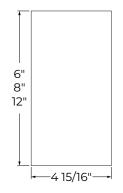
WATTAGE [12]	DIMMING [15]		CANOPY TYPE [21]	CANOPY FINISH Specify NA for DM
14W - 14 W output, up to 1538 lm **20W** - 20 W output, up to 2146 lm **28W** [13] - 28 W output, up to 2882 lm **32W** [13,14] - 32 W output, up to 3285 lm [12] Lumen outputs are reduced with full spectrum, consult factory. [13] Not available with full spectrum. [14] Not available with integral drivers.	**INTEGRAL** **D1** - 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.	**FTMW** - Textured matte white **FTMB** - Textured matte black **FCHP** - Champagne **CF#** - Custom finish, specify RAL# **NA** - Not applicable
SOLA **25W** - 25 W output, up to 1400 lm **DUO** **19W** - 19 W output, up to 1100 lm	**SOLA** **SD1** - Single 0-10V input **SELV** [16] - ELV 120V **STRI** [16] - TRIAC 120V	**SOLA** **RSD1** - Single 0-10V input **RSELV** [18] - ELV 120V **RSTRI** [18] - TRIAC 120V **DUO** **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		

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Dimensions

CYLINDER

6"
8"
12"

4 15/16"
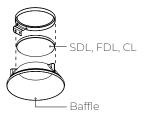
Minimum heights - Cylinder

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

Light element

LSDL, LFDL, LS, HEX

SDL, FDL, CL

Baffle
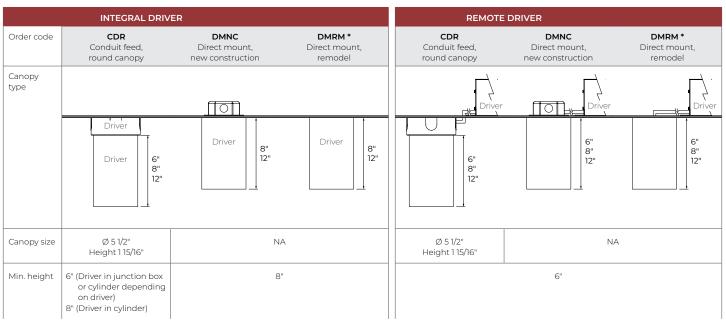
BAFFLE

BVL Bevel	**PHL** Pinhole

	Baffle finish
	Textured matte black

Ø 4 13/16"   Ø 2 1/2"

Ø 4 13/16"   Ø 2 1/8"

17° Cut-off   1 1/16"
44° Shielding

Optic
34° Cut-off   7/8"

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Mounting

CANOPY

	INTEGRAL DRIVER			REMOTE DRIVER		
Order code	**CDR** Conduit feed, round canopy	**DMNC** Direct mount, new construction	**DMRM *** Direct mount, remodel	**CDR** Conduit feed, round canopy	**DMNC** Direct mount, new construction	**DMRM *** Direct mount, remodel
Canopy type	Driver / Driver 6" 8" 12"	Driver 8" 12"	Driver 8" 12"	Driver 6" 8" 12"	Driver 6" 8" 12"	Driver 6" 8" 12"
Canopy size	Ø 5 1/2" Height 1 15/16"	NA		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"		6"		

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

REMOTE DRIVER BOX

RDB8 / RDB18 / RDB24

2 3/8"
3 3/4"
B
A

RDB24W

5"
3 3/4"
B
A
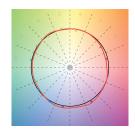
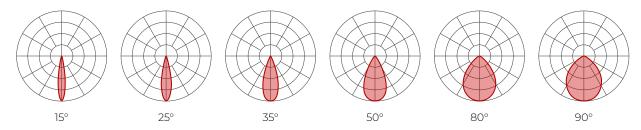|	RDB8	RDB18	RDB24	RDB24W
A	10"	20"	26"	26"
B	8"	18"	24"	24"
DRIVER	**RD1** - 1% 0-10V **RELV** - ELV 120V **RTRI** - TRIAC 120V	**RLDE1** - Lutron Hi-lume 1% Eco **RDA** - DALI **RELD1** - eldoLED 1% ECOdrive 0-10V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V	Emergency battery (+EB) with the following driver 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
	<u>SOLA</u> **RSD1** - Single 0-10V input **RSELV** - ELV 120V **RSTRI** - TRIAC 120V		<u>DUO</u> **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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Color Quality

COLOR QUALITY - 3500K	
TM-30 R_f	90
TM-30 R_g	100
CRI	90
R9	> 50

Photometrics

SURFACE

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

| 15° | 25° | 35° | 50° | 80° | 90° |

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	
2700K	0.9
3000K	0.95
3500K	1
4000K	1.05

For SOLA and DUO, please consult factory.

BAFFLE STYLE AND COLOR		
Bevel	White	1
	Black	1
Pinhole	White	0.92
	Black	0.92

LENS * (At baffle)	
SDL - Soft diffused lens, Solite	1
FDL - Frosted lens	0.8
CL - Clear lens	1.1
NOL - No lens	1.1

ACCESSORIES * (At light element)	
LSDL - Soft diffused lens, Solite	1
LFDL - Frosted lens	0.8
LS - Linear spread	0.84
HEX - Hex louver	0.86

* 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

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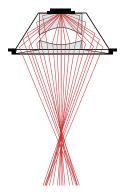AERA5-CYLINDER-SURFACE-SPEC-REV2   April 25, 2024

PoE

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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 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: Die-cast and extruded aluminum
Canopy: Conduit feed and direct
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

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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PoE

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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.