

AERA 4" INFLEX CYLINDER



SURFACE
DIRECT



Declare.



8" Height
Bevel



8" Height
Decorative Bevel



12" Height
Pinhole

The Aera Inflex Cylinders feature adjustable optics that can tilt 35 degrees and rotate 355 degrees, all while their cylindrical housings stay in their fixed position. Mountable as pendant or surface fixtures, they can serve to subtly emphasize certain features of a space or add visual interest to plain lighting design.

Mounting Options



Beam Angles



Low UGR < 10 in 15°, 25°, 35°, and 50° beams / Max. tilt 35°

Performance

LUMEN OUTPUT ¹	WATTS	EFFICACY
1298 lm	14 W	93 lm/W
1861 lm	20 W	93 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 Cylinder Family (Refer to other spec sheets)

Cylinder	Inflex Cylinder	Flex Cylinder
 2" / 3" / 4" / 5" 4" Seal Pendant Pendant Asymmetric Pendant Wall Wash	 3" / 4" Pendant 4" Seal Surface Surface Asymmetric Surface Wall Wash	 3" Pendant 3" Recessed 3" Surface 3" Wall

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Project: _____

Type: _____

Order Guide

LUMINAIRE ID ¹	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE4INFXCYS	D				
AE4INFXCYS - Aera 4" Inflex Cylinder Surface ¹ Pendant also available. Consult other spec sheet.	D - Direct	8IN - 8" 12IN - 12" CH#IN ² - Custom height ² Specify height (#) in 1" increments only. Up to maximum 36".	FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL#	BVL - Bevel PHL - Pinhole BVLD - Decorative bevel	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
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 50DEG - 50° Wide 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 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 - 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.

* 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.

VOLTAGE	WATTAGE ¹¹	DIMMING ¹²	CANOPY TYPE ¹⁹	CANOPY FINISH Specify NA for DM	
120V - 120V 277V - 277V UNV - 120V-277V 347V ¹⁰ - 347V ¹⁰ Available with RD1 driver only. Please consult factory.	14W - 14 W output, up to 1348 lm 20W - 20 W output, up to 1932 lm ¹¹ Lumen outputs are reduced with full spectrum, consult factory.	INTEGRAL ¹³ D1 - 1% 0-10V ELV ¹⁴ - ELV 120V TRI ¹⁴ - TRIAC 120V ¹² PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹³ Not available with DMNC/DMRM canopy options. ¹⁴ Available with 120V only.	REMOTE ¹⁵ RD1 - 1% 0-10V RELV ¹⁶ - ELV 120V RTRI ¹⁶ - TRIAC 120V RLDE1 ¹⁷ - Lutron Hi-Lume 1% Eco RDA ¹⁷ - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V +EB ¹⁸ - Emergency battery ¹⁵ A remote driver box is provided, see page 4 for details. ¹⁶ Available with 120V only. ¹⁷ On-site commissioning is required. ¹⁸ For emergency battery, code will be like the following example: RD1+EB.	FLR ²⁰ - Flat round canopy, 4" octagonal junction box CDR ²¹ - Conduit feed, round canopy DMNC ²² - Direct mount, new construction DMRM ^{22,23} - Direct mount, remodel ¹⁹ See page 4 for details. ²⁰ Driver is housed in j-box when specified with integral drivers. ²¹ Driver is housed in canopy when specified with integral drivers. ²² Available with remote driver only. 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 23W - 23 W output, up to 1400 lm DUO 19W - 19 W output, up to 1050 lm	SOLA SD1 - Single 0-10V input SELV ¹⁴ - ELV 120V STRI ¹⁴ - TRIAC 120V	SOLA RSD1 - Single 0-10V input RSELV ¹⁶ - ELV 120V RSTRI ¹⁶ - TRIAC 120V DUO RDMX ¹⁷ - DMX RDDA ¹⁷ - DALI DT6 RDDA8 ¹⁷ - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RLD2 ¹⁷ - Lutron DALI-2 digital		

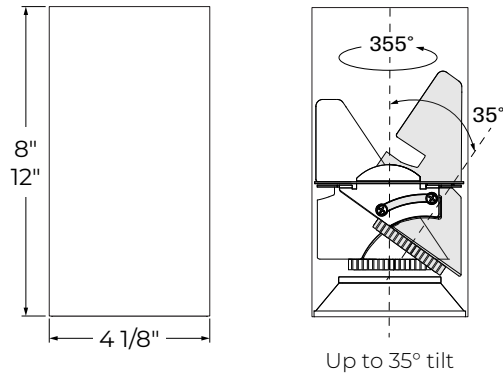


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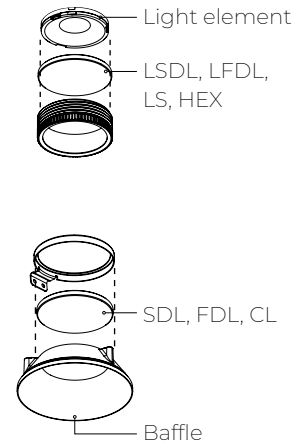
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Dimensions

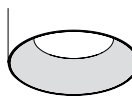
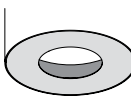
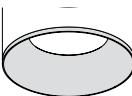


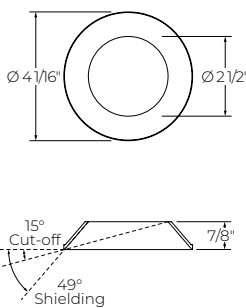
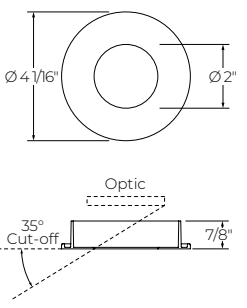
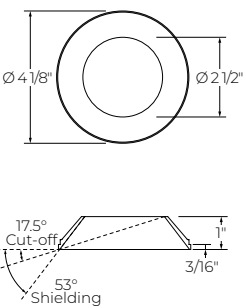
CYLINDER



Lens and Accessories



BAFFLE

BVL Bevel	PHL Pinhole	BVLD Decorative bevel
		
<p> Baffle finish</p> <p> Textured matte black</p>		
		

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Mounting

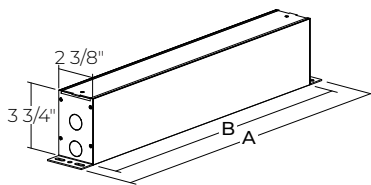
CANOPY

Order code	INTEGRAL DRIVER		REMOTE DRIVER			
	FLR Flat round canopy, 4" octagonal junction box	CDR Conduit feed, round canopy	FLR Flat round canopy, 4" octagonal junction box	CDR Conduit feed, round canopy	DMNC Direct mount, new construction	DMRM * Direct mount, remodel
Canopy type						
Canopy size	Ø 4 1/2" Height 3/8"	Ø 5 1/2" Height 1 15/16"	Ø 4 1/2" Height 3/8"	Ø 5 1/2" Height 1 15/16"	NA	

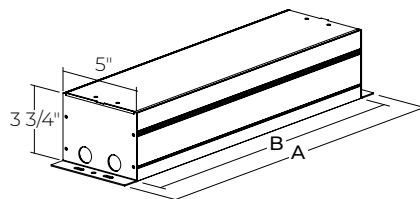
* Single wiring entry only. No daisy chain connections allowed.

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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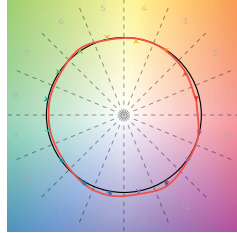


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Color Quality

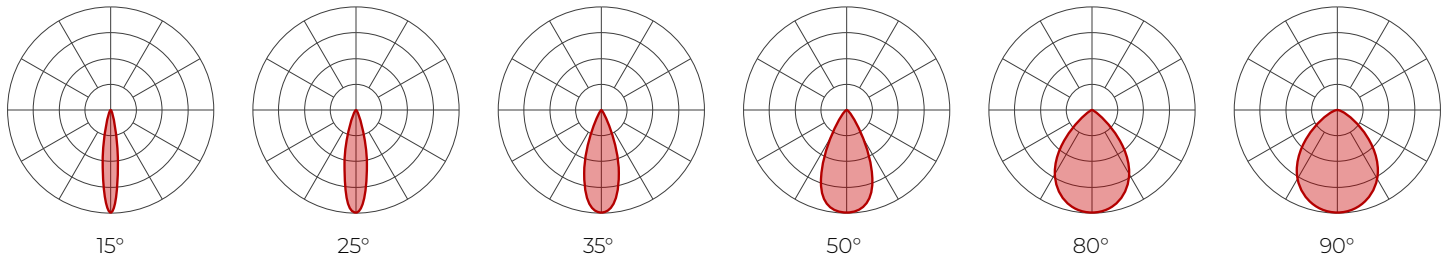
COLOR QUALITY - 3500K

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



Photometrics

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



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	1226	1260	1213	1189	1070	1070	944	970	934	916	824	824	1312	1348	1298	1272	1145	1145
20 W	1758	1806	1739	1704	1534	1534	1354	1391	1339	1312	1181	1181	1881	1932	1861	1823	1641	1641

Efficacy

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	88	90	87	85	76	76	67	69	67	65	59	59	94	96	93	91	82	82
20 W	88	90	87	85	77	77	68	70	67	66	59	59	94	97	93	91	82	82

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	White	SDL - Soft diffused lens, Solite	LSDL - Soft diffused lens, Solite
3000K	Black	FDL - Frosted diffused lens	LFDL - Frosted diffused lens
3500K	White	CL - Clear lens	LS - Linear spread
4000K	Black	NOL - No lens	HEX - Hex louver
	Decorative bevel		

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



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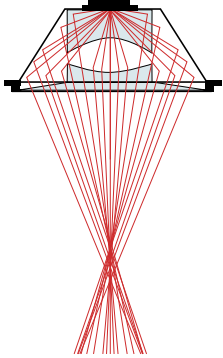


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Technical Specifications

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. 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 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: Flat, 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, pinhole, and decorative bevel

WEIGHT

8": 2.4 lbs - 1.1 kg

12": 3.6 lbs - 1.6 kg

LENS AND ACCESSORIES



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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 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.