AERA 3" INFLEX CYLINDER

SURFACE

DIRECT

Lumenwerx

5 YEAR WARRANTY

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

Flat Conduit Direct

Beam Angles

15° 25° 35° 50° 80° 90°

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

Performance

LUMEN OUTPUT [1]	WATTS	EFFICACY
1024 lm	10 W	102 lm/W
1352 lm	14 W	97 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

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

Inflex Cylinder

3" / 4"
Pendant

3" / 4"
Surface

Flex Cylinder

3"
Pendant

3"
Recessed

3"
Surface

3"
Wall

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PoE

AERA 3" INFLEX CYLINDER

SURFACE

DIRECT

Lumenwerx

Project: _____

Type: _____

Order Guide

LUMINAIRE ID [1]	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE3INFXCYS	**D**				
AE3INFXCYS - Aera 3" 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	**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)
SDL - Soft diffused lens, Solite **FDL** - Frosted diffused lens **CL** - Clear lens **NOL** - No lens	**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** - 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 [13]		CANOPY TYPE [20]	CANOPY FINISH Specify NA for DM
		INTEGRAL [14]	REMOTE [16]		
120V - 120V **277V** - 277V **UNV** - 120V-277V **347V** [10] - 347V [10] Available with RD1 driver only. Please consult factory.	**10W** - 10 W output, up to 1024 lm **14W** [12] - 14 W output, up to 1352 lm [11] Lumen outputs are reduced with full spectrum, consult factory. [12] Not available with full spectrum.	**D1** - 1% 0-10V **ELV** [15] - ELV 120V **TRI** [15] - TRIAC 120V [13] PoE (Power-over-Ethernet) compatible. Consult factory for details. [14] Not available with DMNC/DMRM canopy options. [15] Available with 120V only.	**RD1** - 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 **RELD0** - eldoLED 0.1% SOLOdrive 0-10V **+EB** [19] - Emergency battery [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: RD1+EB.	**FLR** [21] - Flat round canopy, 4" octagonal junction box **CDR** [22] - Conduit feed, round canopy **DMNC** [23] - Direct mount, new construction **DMRM** [23,24] - Direct mount, remodel [20] See page 4 for details. [21] Driver is housed in j-box when specified with integral drivers. [22] Driver is housed in canopy when specified with integral drivers. [23] Available with remote driver only. [24] 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 **12W** - 12 W output, up to 625 lm DUO **11W** - 11 W output, up to 500 lm	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 **RLD2** [18] -Lutron DALI-2 digital		

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PoE

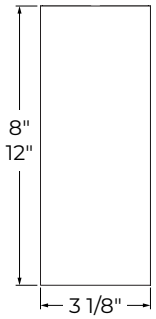
AERA 3" INFLEX CYLINDER

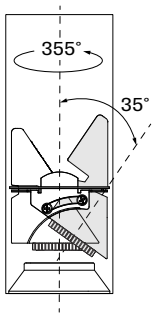
SURFACE

DIRECT

Dimensions

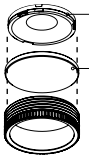
CYLINDER





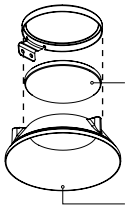
Up to 35° tilt

Lens and Accessories



Light element

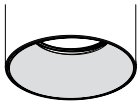
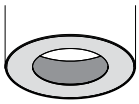
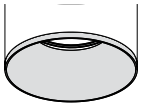
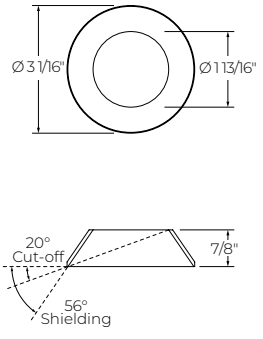
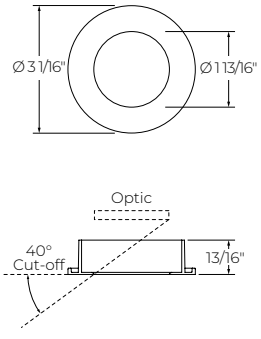
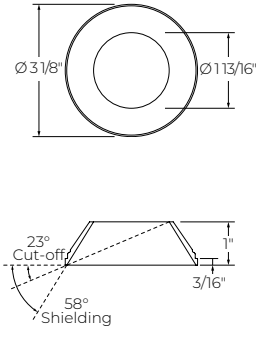
LSDL, LFDL,
LS, HEX



SDL, FDL, CL

Baffle

BAFFLE

BVL Bevel	**PHL** Pinhole	**BVLD** Decorative bevel
		
Baffle finish Textured matte black		
		

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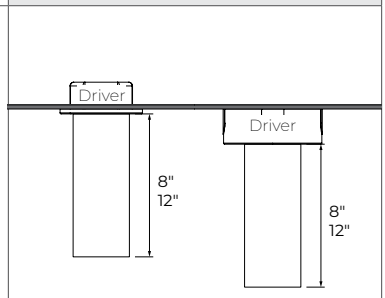
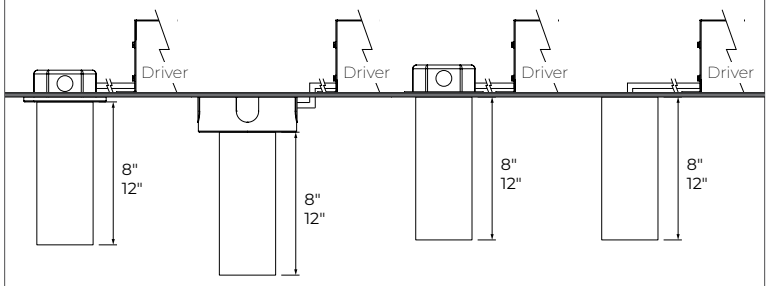
SURFACE

DIRECT

Mounting

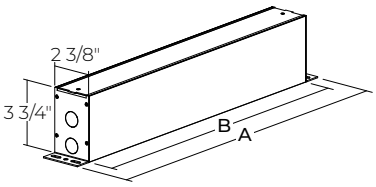
CANOPY

	INTEGRAL DRIVER		REMOTE DRIVER			
Order code	**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	

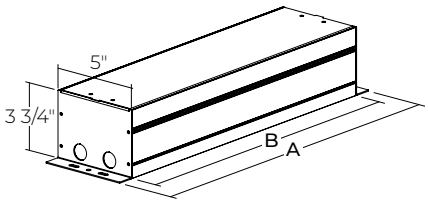
* Single wiring entry only. No daisy chain connections allowed.

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	**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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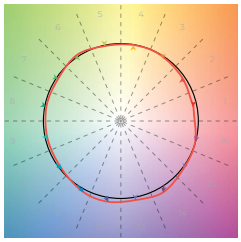
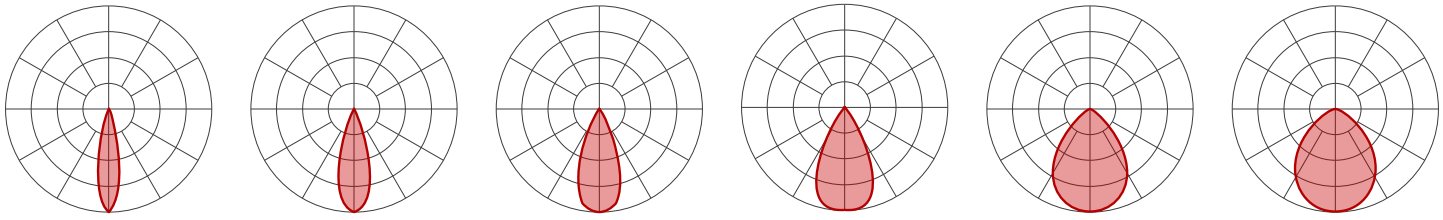
Color Quality

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



Photometrics

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°
10 W	893	953	957	848	763	763	688	734	737	653	588	588	956	1020	1024	907	817	817
14 W	1179	1259	1264	1120	1008	1008	908	969	973	862	776	776	1262	1347	1352	1198	1079	1079

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°
10 W	89	95	96	85	76	76	69	73	74	65	59	59	96	102	102	91	82	82
14 W	84	90	90	80	72	72	65	69	70	62	55	55	90	96	97	86	77	77

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
Decorative bevel	White	1
	Black	1

LENS * (At baffle)	
SDL - Soft diffused lens, Solite	1
FDL - Frosted diffused 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 diffused 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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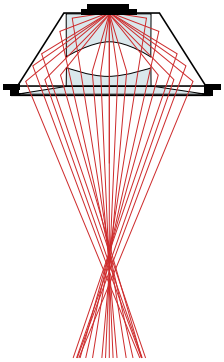
Technical Specifications

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": 1.1 lbs - 0.6 kg

12": 1.8 lbs - 0.8 kg

LENS AND ACCESSORIES

Soft diffused lens, Solite | Frosted diffused lens | Clear lens | Linear spread | Hex louver

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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.

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