

AERA 3" INFLEX CYLINDER

PENDANT
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.

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



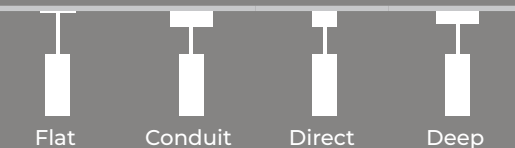
COB

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)

Mounting Options



Flat Conduit Direct Deep

Aera Cylinder Family (Refer to other spec sheets)



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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Project: _____

Type: _____

Order Guide

LUMINAIRE ID ¹	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE3INFXCYP	D				
AE3INFXCYP - Aera 3" Inflex Cylinder Pendant ¹ Surface 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 - Matte white FTMB - Matte black FCHP - Champagne CF# - Custom finish, specify RAL#	BVL - Bevel PHL - Pinhole BVLD - Decorative bevel	FTMW - Matte white FTMB - Matte black FSPC - Specular FSSPC - Semi-specular FCHP - Champagne CF# - Custom finish, specify RAL#

LENS *	LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP.	ACCESSORIES *
See page 3 for details						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 SOLA ⁵ - Dim- to-warm single channel control DUO ⁶ - Tunable white 2-channel control 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 ¹³
120V - 120V 277V - 277V UNV - 120V-277V 347V ¹⁰ - 347V ¹⁰ Only available with RDI driver. 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.	INTEGRAL ¹⁴ DI - 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 Only available with 120V.
	SOLA 12W - 12 W output, up to 625 lm DUO 11W - 11 W output, up to 500 lm	REMOTE ¹⁶ RDI - 1% 0-10V RELV ¹⁷ - ELV 120V RTRI ¹⁷ - TRIAC 120V RLDEI ¹⁸ - Lutron Hi-Lume 1% Eco ¹⁶ A remote driver box is provided, see page 5 for details. ¹⁷ Only available with 120V.
		RDA ¹⁸ - DALI RELDI - eldoLED 1% ECOdrive 0-10V RELDO - eldoLED 0.1% SOLOdrive 0-10V +EB ¹⁹ - Emergency battery ¹⁸ On-site commissioning is required. ¹⁹ For emergency battery, code will be like the following example: RDI+EB.
		DUO RDMX ¹⁸ - DMX RDDA ¹⁸ - DALI DT6 RDDA8 ¹⁸ - DALI DT8 RDDI - Dual 0-10V input for CCT/intensity RLD2 ¹⁸ - Lutron DALI-2 digital

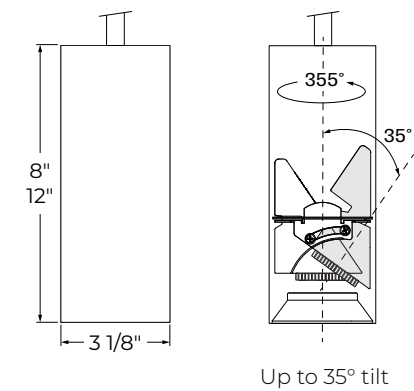
CANOPY TYPE ²⁰	CANOPY FINISH	SUSPENSION ²⁵
FLR ²¹ - Flat round canopy, 4" octagonal junction box CDR ²² - Conduit feed, round canopy DMNC ²³ - Direct mount, new construction DMRM ^{23,24} - Direct mount, remodel DR - Deep round canopy ²⁰ See page 4 for details. ²¹ Driver is housed in j-box when specified with integral drivers. ²² Driver is housed in canopy when specified with integral drivers. ²³ Only available with remote driver. ²⁴ Single wiring entry only. No daisy chain connections allowed.	FTMW - Matte white FTMB - Matte black FCHP - Champagne CF# - Custom finish, specify RAL#	BKS##IN - Matte black stem WHS##IN - Matte white stem BKSS##IN ²⁶ - Matte black swivel stem WHSS##IN ²⁶ - Matte white swivel stem BKFCS##IN ²⁷ - Matte black field-cutttable stem WHFCS##IN ²⁷ - Matte white field-cutttable stem CF#S##IN ²⁸ - Custom finish stem CF#SS##IN ^{26,28} - Custom finish swivel stem CF#FCS##IN ^{27,28} - Custom finish field-cutttable stem ²⁵ Min 10" - max 72", specify length (##) in inches. ²⁶ Only available with FLR/CDR and remote driver. ²⁷ Maximum 20" cylinder height. ²⁸ Specify RAL#.

AERA 3" INFLEX CYLINDER

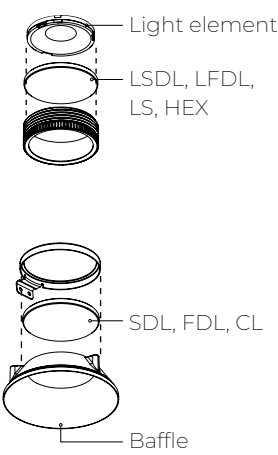
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Dimensions

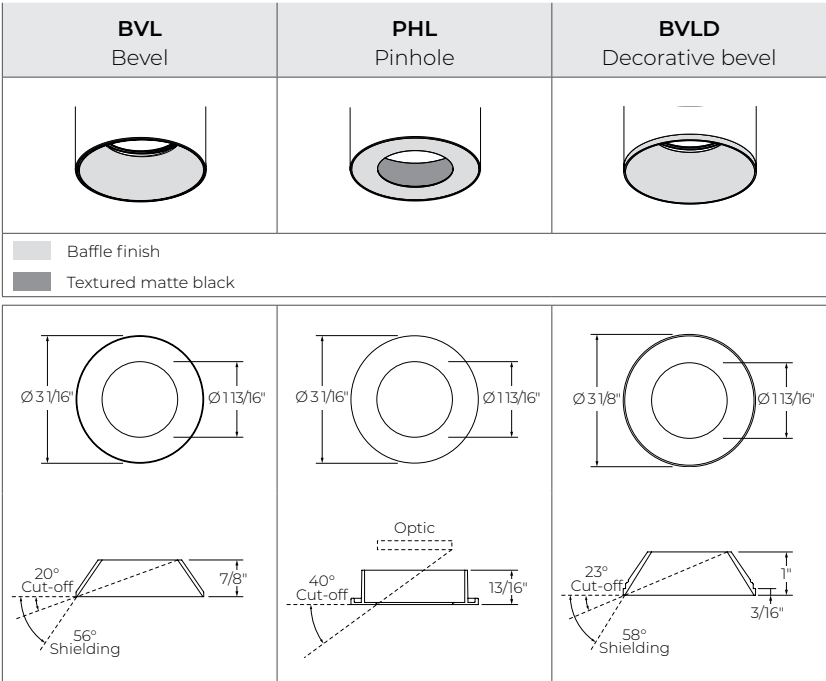
CYLINDER



Lens and Accessories



BAFFLE



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Mounting

CANOPY

INTEGRAL DRIVER			
Order code	FLR Flat round canopy, 4" octagonal junction box	CDR Conduit feed, round canopy	DR Deep round canopy
Canopy type			
Canopy size	Ø 4 1/2" Height 3/8"	Ø 5 1/2" Height 1 15/16"	Ø 5 5/8" Height 1 3/8"
Suspension	Stem, Field-cuttable stem		

REMOTE DRIVER					
Order code	FLR Flat round canopy, 4" octagonal junction box	CDR Conduit feed, round canopy	DMNC Direct mount, new construction	DMRM* Direct mount, remodel	DR Deep round canopy
Canopy type					
Canopy size	Ø 4 1/2" Height 3/8"	Ø 5 1/2" Height 1 15/16"	Ø 3 1/8" Height 2"		Ø 5 5/8" Height 1 3/8"
Suspension	Stem, Swivel stem, Field-cuttable stem			Stem, Field-cuttable stem	

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

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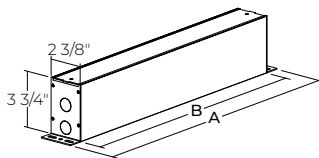


SUSPENSION

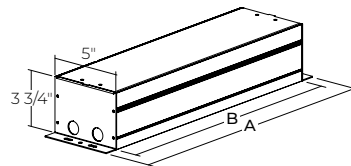
STEM		
Stem	Swivel stem ^{1,2}	Field-cutttable stem ³
Stem Lengths (*)		
Min 10" Max 72"	Min 10" Max 72" Max 45° tilt	Min 10" Max 72"
¹ Only available with FLR/CDR and remote driver.		³ Maximum 20" cylinder height.
² The total stem length (*) includes the 1" swivel base located inside the canopy.		

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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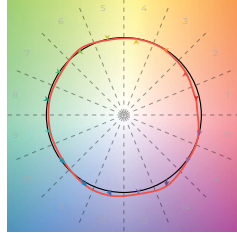


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Color Quality

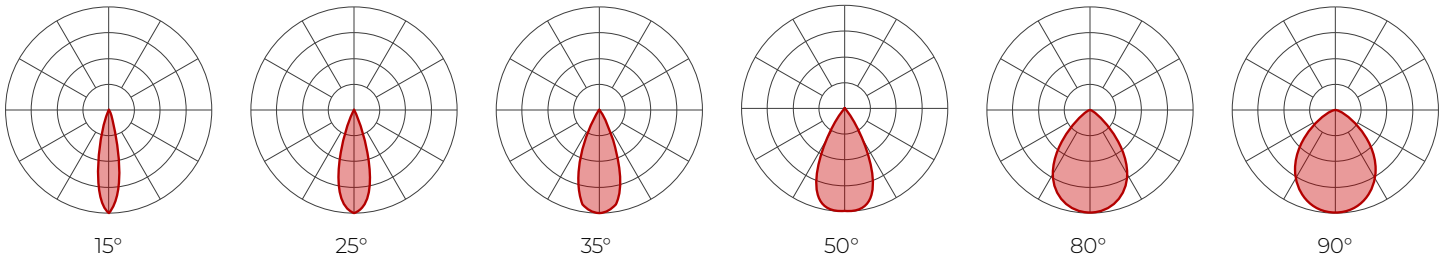
COLOR QUALITY - 3500K

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



Photometrics

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



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		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	1
3000K	0.95		Black	1	FDL - Frosted diffused lens	0.8	LFDL - Frosted diffused 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.		Decorative bevel	White	1	* 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			
			Black	1				

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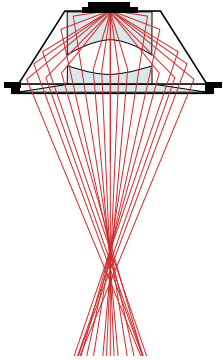
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Technical Specifications

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

Stem: Ø 1/2" rigid stem, swivel stem, and field-cuttable stem 10" to 72" standard length

Canopy: Flat, conduit feed, direct, and deep

Finish: Matte white, matte 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



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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.