

AERA 2" INFLEX CYLINDER




PENDANT
DIRECT



Declare.





8" Height
Bevel




8" Height
Decorative Bevel

The Aera 2" Inflex Cylinder features adjustable optics that can tilt 30 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 Stem Swivel Stem	Conduit Stem Swivel Stem	Direct Stem	Deep Stem

Beam Angles



10° 15° 25° 35° 50° 80° 90°

Low UGR < 10 in 10°, 15°, 25°, 35°, and 50° beams
Up to 355° rotation and 30° tilt

Performance

LUMEN OUTPUT ¹	WATTS	EFFICACY
552 lm	7 W	79 lm/W

¹Lumen packages are assuming 3500K, 80+ CRI, 35° beam, bevel baffle, SDL lens option.

Light Source

Static White
Full Spectrum Static White




COB



2 Step Color Binning
Up to 95+ CRI





Driver

1%, 0.1% Dimming Available
0-10V, TRIAC, ELV, Lutron EcoSystem, DALI
Emergency Battery (optional)

Aera Cylinder Family (Refer to other spec sheets)

Cylinder		
		
2" / 3" / 4" / 5" / 6" 4" Seal Pendant	2" / 3" / 4" / 5" / 6" 4" Seal Wall	2" / 3" / 4" / 5" / 6" 4" Seal Surface
Pendant Asymmetric Pendant Wall Wash	Wall Asymmetric	Surface Asymmetric Surface Wall Wash

Inflex Cylinder	
	
2" / 3" / 4" Pendant	2" / 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
AE2INFXCYP	D				
AE2INFXCYP - Aera 2" Inflex Cylinder Pendant ¹ Surface also available. Consult other spec sheet.	D - Direct	4IN - 4" 6IN - 6" 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 FDBZ - Dark bronze CF# - Custom finish, specify RAL#	BVL - Bevel BVLD - Decorative bevel	FTMW - Matte white FTMB - Matte black FSPC - Satin silver FSSPC - Matter silver FCHP - Champagne FDBZ - Dark bronze CF# - Custom finish, specify RAL#

LENS ^{*,3} At baffle	LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP.	ACCESSORIES ^{*,6,7,8} At light element
SDL - Soft diffused lens, Solite FDL - Frosted diffused lens CL - Clear lens NOL - No lens ³ See page 3 for details.	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	25TP ⁴ - 2 Step MacAdam Ellipse 35TP - 3 Step MacAdam Ellipse ⁴ Not available with full spectrum.	Static white 80CRI - 80+ CRI 90CRI - 90+ CRI 95CRI - 95+ CRI Full spectrum 95CRI - 95+ CRI	24K ⁵ - 2400K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K ⁵ - 5000K ⁵ Not available with 95+ CRI.	Choose up to 2 options LSDL - Soft diffused lens, Solite LFDL - Frosted diffused lens LS - Linear spread HEX ⁹ - Hex louver NA - None ⁶ See page 3 for details. 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.

VOLTAGE	WATTAGE ¹¹	DIMMING	
	7W		
120V - 120V 277V - 277V UNV - 120V-277V 347V ¹⁰ - 347V ¹⁰ Available with RD1 driver only. Please consult factory.	7W - 7 W output, up to 560 lm ¹¹ Lumen outputs are reduced with full spectrum, consult factory.	INTEGRAL ¹² D1 - 1% 0-10V ELV ¹³ - ELV 120V TRI ¹³ - TRIAC 120V ¹² Minimum cylinder height of 8" required for DMNC/DMRM canopy options. ¹³ Available with 120V only.	REMOTE ¹⁴ RD1 - 1% 0-10V RELV ¹⁵ - ELV 120V RTRI ¹⁵ - TRIAC 120V RLDE1 ¹⁶ - Lutron Hi-Lume 1% Eco ¹⁴ A remote driver box is provided. ¹⁵ Available with 120V only. ¹⁶ On-site commissioning is required. ¹⁷ To specify, add +EB to the selected dimming option, e.g. RD1+EB.

CANOPY TYPE ¹⁸	CANOPY FINISH	SUSPENSION ²²
FLR ¹⁹ - Flat round canopy, 4" octagonal junction box CDR ¹⁹ - Conduit feed, round canopy DMNC ²⁰ - Direct mount, new construction DMRM ^{20,21} - Direct mount, remodel DR - Deep round canopy ¹⁸ See page 5 for details. ¹⁹ For 4" and 6" long cylinders, driver has to be in j-box when specified with integral drivers. ²⁰ Minimum cylinder height of 8" required for integral driver. ²¹ Single wiring entry only. No daisy chain connections allowed.	FTMW - Matte white FTMB - Matte black FCHP - Champagne FDBZ - Dark bronze CF# - Custom finish, specify RAL#	BKS##IN - Matte black stem WHS##IN - Matte white stem BKSS##IN ²³ - Matte black swivel stem WHSS##IN ²³ - Matte white swivel stem CF##SS##IN ²⁴ - Custom finish stem CF##SS##IN ^{23,24} - Custom finish swivel stem ²² Min 10" - max 72", specify length (##) in inches. ²³ Only available with FLR/CDR. Minimum 8" height is required when specified with integral driver. ²⁴ Specify RAL#.



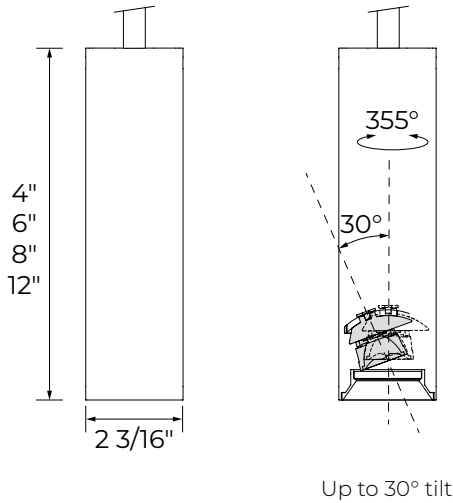
AERA 2" INFLEX CYLINDER



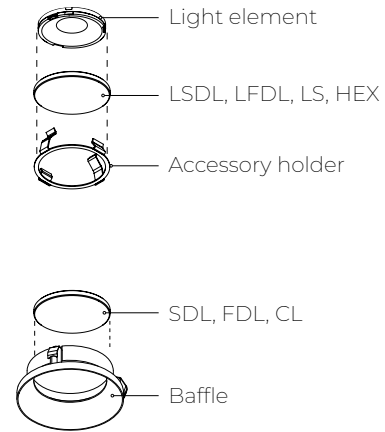
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Dimensions

CYLINDER



Lens and Accessories



BAFFLE

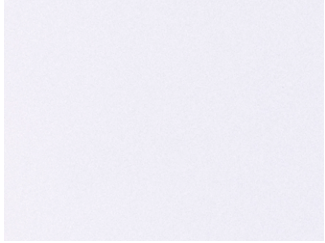
BVL Bevel	BVLD Decorative bevel

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Finishes



FTMW - Matte white



FTMB - Matte black



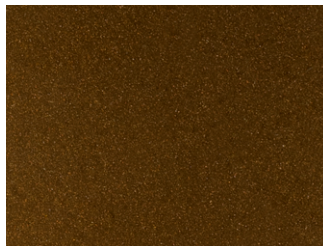
FSPC - Satin silver



FSSPC - Matte silver



FCHP - Champagne



FDBZ - Dark bronze

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Mounting

CANOPY

INTEGRAL DRIVER

Canopy type	FLR Flat round canopy, 4" octagonal junction box		CDR Conduit feed, round canop		DMNC Direct mount, new construction	DMRM * Direct mount, remodel	DR Deep round canopy	
Canopy size	Ø 4 1/2" Height 3/8"		Ø 5 1/2" Height 1 15/16"		Ø 2 3/16" Height 2"		Ø 5 5/8" Height 1 3/8"	
Driver location	Junction box	Cylinder	Canopy (junction box)	Cylinder	Cylinder		Canopy	Cylinder
Minimum cylinder height	4"	8"	4"	8"	8"		4"	8"
Cylinder height								
Suspension	Stem	Stem, Swivel stem	Stem	Stem, Swivel stem	Stem			

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

REMOTE DRIVER

Canopy type	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 size	Ø 4 1/2" Height 3/8"		Ø 5 1/2" Height 1 15/16"		Ø 2 3/16" Height 2"		Ø 5 5/8" Height 1 3/8"	
Cylinder height								
Suspension	Stem, Swivel stem				Stem			

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

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SUSPENSION

STEM	
Stem	Swivel stem ^{1,2}
Stem Lengths (*)	
Min 10" Max 72"	Min 10" Max 72" Max 45° tilt
<p>¹ Only available with FLR/CDR. Minimum 8" height is required when specified with integral driver.</p> <p>² The total stem length (*) includes the 1" swivel base located inside the canopy.</p>	

AERA 2" INFLEX CYLINDER

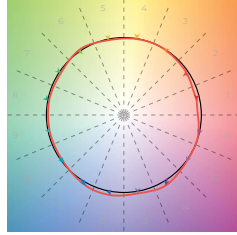


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Color Quality

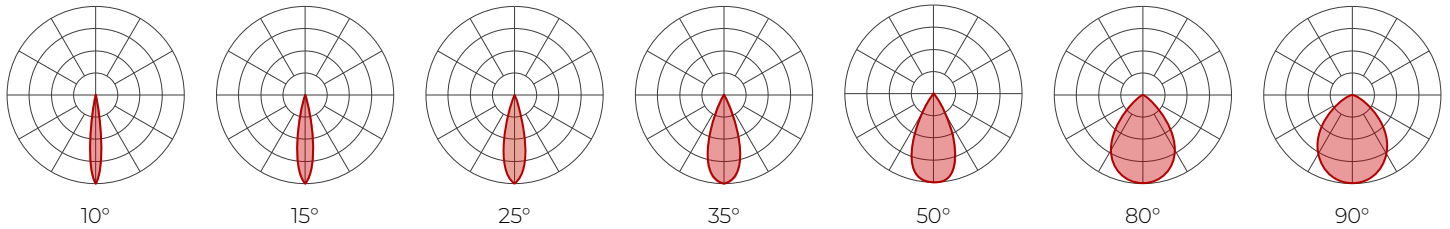
COLOR QUALITY - 3500K

TM-30 R _r	91
TM-30 R _g	100
CRI	90+
R9	> 50



Photometrics

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



Delivered lumens (LM)

CRI	80+ CRI							90+ CRI						95+ CRI							
	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°
7 W	589	513	560	552	530	477	477	550	479	523	516	495	446	446	423	369	403	397	381	343	343

Efficacy (LM/W)

CRI	80+ CRI							90+ CRI						95+ CRI							
	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°
7 W	84	73	80	79	76	68	68	79	68	75	74	71	64	64	60	53	58	57	54	49	49

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	Decorative bevel	White	1	CL - Clear lens	1.1	LS - Linear spread	0.84
3500K		Black	1	NOL - No lens	1.1	HEX - Hex louver	0.86
4000K							
5000K							

* 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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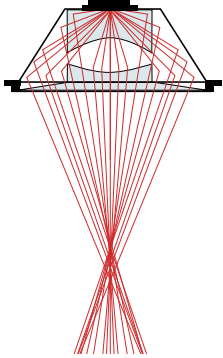


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Technical Specifications

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 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 that is beneficial in both healthcare and circadian lighting strategies. The cyan region in full spectrum LED is richer at the 480 nm range.

ELECTRICAL

Unless otherwise specified, dimming down to 1%. At maximum driver load: efficiency > 84%, PF > 0.9, THD < 20%. ELV and TRIAC dimming performance (including minimum dimming percentage) subject to dimmer selection.

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

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 and swivel stem 10" to 72" standard length

Canopy: Flat, 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 decorative bevel

WEIGHT

4": 0.5 lbs - 0.2 kg

6": 0.6 lbs - 0.3 kg

8": 0.8 lbs - 0.3 kg

12": 0.9 lbs - 0.4 kg

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).

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.