

# AERA 3" FLEX CYLINDER

WALL  
DIRECT



Project: \_\_\_\_\_  
Type: \_\_\_\_\_



The Aera 3" Flex Cylinder is adjustable, tilting upwards to 90 degrees and rotating 355 degrees. Mountable as a recessed, surface, pendant, or wall fixture, it brings to the Aera family added flexibility and more options to customize lighting effects.

### Beam Angles



### Performance

LUMEN OUTPUT <sup>1</sup>	WATTS	EFFICACY
1132 lm	10 W	113 lm/W
1545 lm	14 W	110 lm/W

<sup>1</sup>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



Direct

### 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



# AERA 3" FLEX CYLINDER



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Project: \_\_\_\_\_

Type: \_\_\_\_\_

## Order Guide

LUMINAIRE ID <sup>1</sup>	DISTRIBUTION	CYLINDER HEIGHT <sup>2</sup>	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
<b>AE3FXCYW</b>	<b>D</b>				
<b>AE3FXCYW</b> - Aera 3" Flex Cylinder Wall  <sup>1</sup> Pendant, Surface, and Recessed, also available. Consult other spec sheets.	<b>D</b> - Direct	<b>4.5IN</b> - 4.5" <b>6IN</b> - 6"  <sup>2</sup> See page 3 for dimensions.	<b>FTMW</b> - Textured matte white <b>FTMB</b> - Textured matte black <b>FCHP</b> - Champagne <b>CF#</b> - Custom finish, specify RAL#	<b>BVL</b> - Bevel <b>PHL</b> - Pinhole <b>BVLD</b> - Decorative bevel	<b>FTMW</b> - Textured matte white <b>FTMB</b> - Textured matte black <b>FSPC</b> - Specular <b>FSSPC</b> - Semi-specular <b>FCHP</b> - Champagne <b>CF#</b> - Custom finish, specify RAL#

LENS * See page 3 for details	LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP.	ACCESSORIES * See page 3 for details
<b>At baffle</b> (choose 1 option) Specify NOL for Pinhole  <b>SDL</b> - Soft diffused lens, Solite <b>FDL</b> - Frosted diffused lens <b>CL</b> - Clear lens <b>NOL</b> - No lens	<b>SW</b> - Static white <b>FS</b> - Full spectrum  <b>SOLA</b> - Dim-to-warm single channel control 35K to 22K <b>DUO</b> - Tunable white 2-channel control 65K to 27K	<b>15DEG</b> - 15° Narrow spot <b>25DEG</b> - 25° Spot <b>35DEG</b> - 35° Narrow flood <b>50DEG</b> - 50° Wide flood <b>80DEG</b> - 80° Very wide flood <b>90DEG</b> - 90° Open flood  <b>50DEG</b> - 50° Wide flood	<b>2STP</b> <sup>3</sup> - 2 Step MacAdam Ellipse <b>3STP</b> - 3 Step MacAdam Ellipse  <sup>3</sup> Not available with full spectrum.	<b>90CRI</b> <sup>4</sup> - 90 CRI <b>95CRI</b> - 95 CRI <b>80CRI</b> <sup>4</sup> - 80 CRI  <sup>4</sup> Not available with full spectrum.	<b>27K</b> - 2700K <b>30K</b> - 3000K <b>35K</b> - 3500K <b>40K</b> - 4000K  <b>SOLA</b> - Dim-to-warm single channel control 35K to 22K <b>DUO</b> - Tunable white 2-channel control 65K to 27K	<b>At light element</b> <sup>5,6</sup> (choose up to 2 options)  <b>LSDL</b> - Soft diffused lens, Solite <b>LFDL</b> - Frosted diffused lens <b>LS</b> - Linear spread <b>HEX</b> - Hex louver <b>NA</b> - None  <sup>5</sup> If two options are specified, separate codes with a "+", e.g. <b>LSDL+HEX</b> . <sup>6</sup> LSDL and LFDL cannot be combined. LS and HEX cannot be combined.

\* 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 <sup>8</sup>	DIMMING <sup>9</sup>	
<b>120V</b> - 120V <b>277V</b> - 277V <b>UNV</b> - 120V-277V <b>347V</b> <sup>7</sup> - 347V  <sup>7</sup> Available with RD1 driver only. Please consult factory.	<b>10W</b> - 10 W output, up to 1132 lm <b>14W</b> - 14 W output, up to 1545 lm  <sup>8</sup> Lumen outputs are reduced with full spectrum, consult factory.	<b>INTEGRAL</b> <sup>10</sup> <b>DI</b> - 1% 0-10V <b>ELV</b> <sup>11</sup> - ELV 120V <b>TRI</b> <sup>11</sup> - TRIAC 120V	<b>REMOTE</b> <sup>12</sup> <b>RD1</b> - 1% 0-10V <b>RELV</b> <sup>11</sup> - ELV 120V <b>RTRI</b> <sup>11</sup> - TRIAC 120V <b>RLDE1</b> <sup>13</sup> - Lutron Hi-lume 1% Eco  <sup>9</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>10</sup> Not available with DMNC/DMRM canopy options. <sup>11</sup> Available with 120V only. <sup>12</sup> A remote driver box is provided, see page 4 for details. <sup>13</sup> On-site commissioning is required. <sup>14</sup> For emergency battery, code will be like the following example: <b>RD1+EB</b>
	<b>SOLA</b> <b>12W</b> - 12 W output, up to 725 lm  <b>DUO</b> <b>11W</b> - 11 W output, up to 525 lm	<b>SOLA</b> <b>SD1</b> - Single 0-10V input <b>SELV</b> <sup>11</sup> - ELV 120V <b>STR1</b> <sup>11</sup> - TRIAC 120V	<b>SOLA</b> <b>RSD1</b> - Single 0-10V input <b>RSELV</b> <sup>11</sup> - ELV 120V <b>RSTR1</b> <sup>11</sup> - TRIAC 120V  <b>DUO</b> <b>RDMX</b> <sup>15</sup> - DMX <b>RDDA</b> <sup>15</sup> - DALI DT6 <b>RDDA8</b> <sup>15</sup> - DALI DT8 <b>RDD1</b> - Dual 0-10V input for CCT/intensity <b>RPSQO</b> <sup>15</sup> - Lutron T-Series 1% tunable white

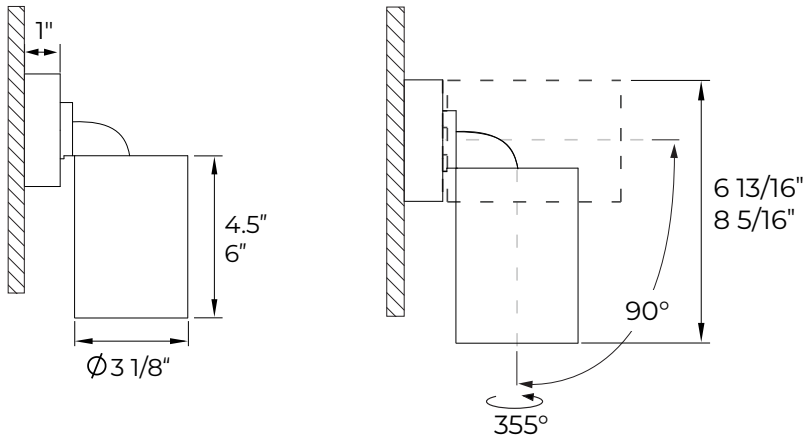
MOUNTING TYPE <sup>15</sup>	MOUNTING FINISH <sup>18</sup>
<b>FLS</b> <sup>16</sup> - Flat square canopy, 4" octagonal junction box <b>DM</b> <sup>17</sup> - Direct mount  <sup>15</sup> See page 4 for details. <sup>16</sup> A single gang j-box may be used. Consult factory for details. <sup>17</sup> Available with remote driver only.	<b>FTMW</b> - Textured matte white <b>FTMB</b> - Textured matte black <b>FCHP</b> - Champagne <b>CF#</b> - Custom finish, specify RAL#  <sup>18</sup> Direct mount finish matches cylinder finish.

# AERA 3" FLEX CYLINDER

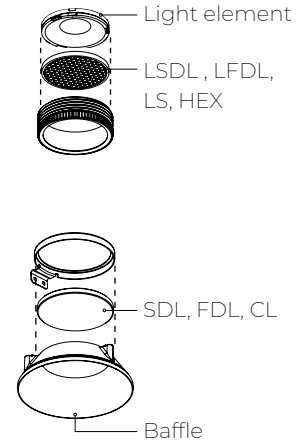


WALL  
DIRECT

## Dimensions



## LENS AND ACCESSORIES



## BAFFLE

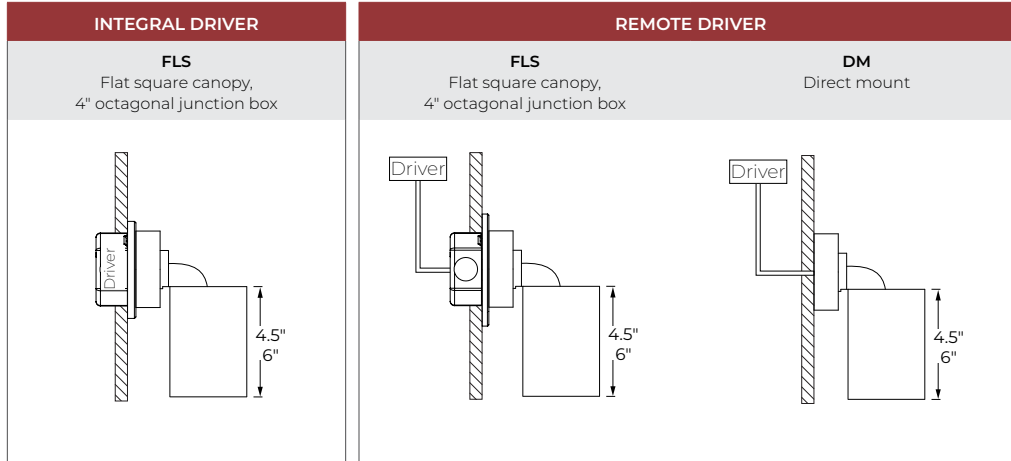
BVL Bevel	PHL Pinhole	BVLD Decorative bevel
<p>■ Baffle finish ■ Textured matte black</p>		

# AERA 3" FLEX CYLINDER



WALL  
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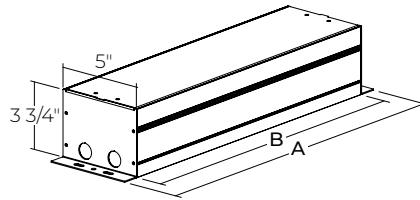
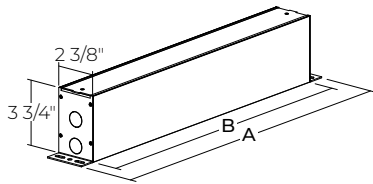
## Mounting



### REMOTE DRIVER BOX

RDB8 / RDB18 / RDB24

RDB24W



	RDB8	RDB18	RDB24	RDB24W
<b>A</b>	10"	20"	26"	26"
<b>B</b>	8"	18"	24"	24"
<b>DRIVER</b>	<b>RD1</b> - 1% 0-10V <b>RELV</b> - ELV 120V <b>RTRI</b> - TRIAC 120V  <b>SOLA</b> <b>RSD1</b> - Single 0-10V input <b>RSELV</b> - ELV 120V <b>RSTRI</b> - TRIAC 120V	<b>RLDE1</b> - Lutron Hi-lume 1% Eco <b>RDA</b> - DALI <b>RELD1</b> - eldoLED 1% ECOdrive 0-10V <b>RELD0</b> - eldoLED 0.1% SOLOdrive 0-10V	Emergency battery (+EB) with the following driver options. <b>RD1+EB</b> - 1% 0-10V <b>RELV+EB</b> - ELV 120V <b>RTRI+EB</b> - TRIAC 120V  <b>DUO</b> <b>RDMX</b> - DMX <b>RDDA</b> - DALI DT6 <b>RDDA8</b> - DALI DT8 <b>RDD1</b> - Dual 0-10V input for CCT/intensity <b>RPSQ0</b> - Lutron T-Series 1% tunable white	Emergency battery (+EB) with the following driver options. <b>RLDE1+EB</b> - Lutron Hi-lume 1% Eco <b>RDA+EB</b> - DALI <b>RELD1+EB</b> - eldoLED 1% ECOdrive 0-10V <b>RELD0+EB</b> - eldoLED 0.1% SOLOdrive 0-10V

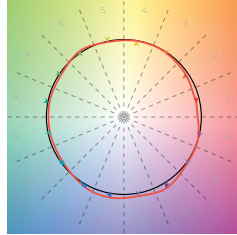
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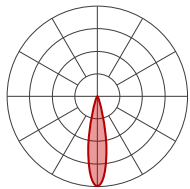
## Color Quality

COLOR QUALITY - 3500K	
TM-30 Rr	90
TM-30 Ra	100
CRI	90
R9	> 50

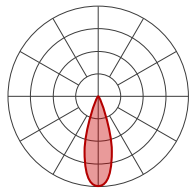


## Photometrics

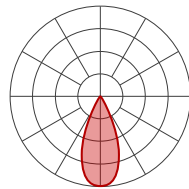
Please follow the multiplier tables to ensure correct lumen value. Beams, CCT, baffle styles, baffle colors, lensing and accessories will change the lumen value.



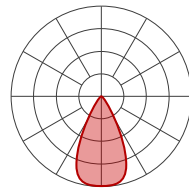
15°



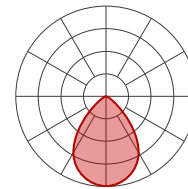
25°



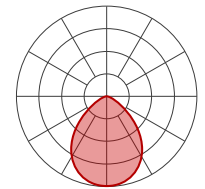
35°



50°



80°



90°

### Delivered Lumens for Bevel Baffles - At 35K, with SDL lens option

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
10 W	987	1053	1058	937	843	843	760	811	815	721	649	649	1056	1127	1132	1003	902	902
14 W	1347	1438	1444	1280	1152	1152	1037	1107	1112	986	887	887	1441	1539	1545	1370	1233	1233

### Efficacy Based on 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
10 W	99	105	106	94	84	84	76	81	81	72	65	65	106	113	113	100	90	90
14 W	96	103	103	91	82	82	74	79	79	70	63	63	103	110	110	98	88	88

## MULTIPLIERS

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 lens	0.8	LFDL - Frosted lens	0.8
3500K	1	Pinhole	White	0.92	CL - Clear lens	1.1	LS - Linear spread	0.84
			Black	0.92	NOL - No lens	1.1	HEX - Hex louver	0.86
4000K	1.05	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 + HEX = 1.1 x 1 x 0.86 = 0.946			
	Black		1					

For SOLA and DUO, please consult factory.



# AERA 3" FLEX CYLINDER

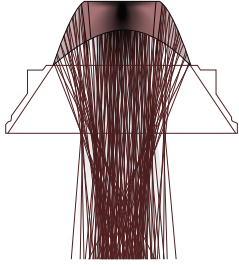
WALL  
DIRECT



## 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

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. Optional full spectrum LEDs can be incorporated in the fixture to increase Cyanosis Observation Index (COI) and assist in regulating circadian rhythms.

### CHROMAWERX

#### 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 T-series (tunable white).

**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 10W, the battery provides 6W of emergency light output. For fixtures 10W and over, the battery provides 10W.

### 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), 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 and direct

**Arm:** Machined aluminum

**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.

### WEIGHT

**4.5"** - 1.8 lbs - 0.82 kg

**6"** - 2.4 lbs - 1.09 kg

# AERA 3" FLEX CYLINDER

## WALL DIRECT



### BAFFLE

Die-cast aluminum

**Baffle style:** Bevel, pinhole, and decorative bevel

### 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.

### 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.