# AERA 4" SEAL CYLINDER
## SURFACE

**Lumenwerx**

5 YEAR WARRANTY

**8" Height**

**10" Height**

**12" Height**

The Aera 4" Seal Cylinder, available as a pendant, surface, or wall mounted luminaire, takes the Aera family's clean esthetic and performance assets to wet locations and outdoor environments, delivering lighting that's visually comfortable with minimal glare.

## Beam Angles

| 15° | 25° | 35° | 50° | 80° | 90° |

Low UGR < 10 in 15°, 25°, 35°, and 50° beams

## Performance

| LUMEN OUTPUT [1] | WATTS | EFFICACY |
|---|---|---|
| 1308 lm | 14 W | 93 lm/W |
| 1824 lm | 20 W | 91 lm/W |
| 2450 lm | 28 W | 87 lm/W |

[1] Lumen packages are assuming 3500K, 80 CRI, 25° beam, gasketed bevel baffle, LSDL lens option.

## Mounting Options

Flat    Direct

## Light Source

Static White
SOLA - Dim-to-Warm
DUO - Tunable White

## COB

2 Step Color Binning
Up to 95 CRI

## Certification

**IP66**

## Driver

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

## Aera Family (Refer to other spec sheets)

### Downlight

| 2" / 3" / 4" | 2" / 3" / 4" | 2" / 3" / 4" |
|---|---|---|
| Round / Square Recessed Adjustable | Round / Square Recessed | Round / Square Recessed Wall Wash |

### Multi-aperture

| 2" / 3" / 4" | 2" / 3" / 4" | 2" / 3" / 4" |
|---|---|---|
| Round / Square Recessed Adjustable | Round / Square Recessed | Round / Square Recessed Wall Wash |

### Cylinder

| 2" / 3" / 4" / 5" | 2" / 3" / 4" / 5" | 2" / 3" / 4" / 5" |
|---|---|---|
| 4" Seal Pendant Pendant Asymmetric Pendant Wall Wash | 4" Seal Wall Wall Asymmetric | 4" Seal Surface Surface Asymmetric Surface Wall Wash |

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PoE Powered over Ethernet

# AERA 4" SEAL CYLINDER

## SURFACE

Project: _____

Type: _____

**Lumenwerx**

## Order Guide

| LUMINAIRE ID | DISTRIBUTION | ENVIRONMENT | CYLINDER HEIGHT | CYLINDER FINISH [3] | BAFFLE STYLE | BAFFLE FINISH |
|---|---|---|---|---|---|---|
| **AE4SEALCYS** | **D** | | | | **BVLG** | |
| **AE4SEALCYS** [1] - Aera 4" Seal Cylinder Surface<br><br>[1] IP66 rated gasketed construction with an additional clear tempered glass lens. | **D** - Direct | **STR** - Standard temperature range, 0°C to 25°C (32°F to 77°F)<br><br>**ETR** - Extended temperature range, -30°C to 40°C (-22°F to 104°F) | **8IN** - 8"<br>**10IN** - 10"<br>**12IN** - 12"<br>**CH#IN** [2] - Custom height<br><br>[2] Specify height (#) in 1" increments only. Up to maximum 36". | **FTMWE** - Textured matte white exterior finish<br>**FTMBE** - Textured matte black exterior finish<br><br>[3] Consult factory for custom exterior finishes. | **BVLG** - Gasketed bevel | **FTMW** - Textured matte white<br>**FTMB** - Textured matte black<br>**FSPC** - Specular<br>**FSSPC** - Semi-specular<br>**CF#** - Custom finish, specify RAL# |

| LIGHT SOURCE | BEAM | COLOR QUALITY | CRI | COLOR TEMP. | ACCESSORY [6]<br>See page 3 for details | VOLTAGE |
|---|---|---|---|---|---|---|
| | | | | | | |
| **SW** - Static white | **15DEG** - 15° Narrow spot<br>**25DEG** - 25° Spot<br>**35DEG** - 35° Narrow flood<br>**50DEG** - 50° Wide flood<br>**80DEG** - 80° Very wide flood<br>**90DEG** - 90° Open flood | **2STP** - 2 Step MacAdam Ellipse<br>**3STP** - 3 Step MacAdam Ellipse | **90CRI** - 90 CRI<br>**95CRI** - 95 CRI<br>**80CRI** - 80 CRI | **27K** - 2700K<br>**30K** - 3000K<br>**35K** - 3500K<br>**40K** - 4000K | **At light element**<br>(choose up to 1 option)<br><br>**LSDL** - Soft diffused lens, Solite<br>**LFDL** - Frosted diffused lens<br>**NA** - None<br><br>[6] For SOLA/DUO, one of the following lenses must be specified: LSDL or LFDL. | **120V** - 120V<br>**277V** - 277V<br>**UNV** - 120V-277V<br>**347V** [7] - 347V<br><br>[7] Available with RD1 driver only. Please consult factory. |
| **SOLA** - Dim-to-warm single channel control<br>**DUO** - Tunable white 2-channel control | **50DEG** - 50° Wide flood | **3STP** - 3 Step MacAdam Ellipse | **90CRI** - 90 CRI | **SOLA** [4] - Dim-to-warm single channel control<br>**DUO** [5] - Tunable white 2-channel control<br><br>[4] 3500K to 2200K<br>[5] 6500K to 2700K | | |

| WATTAGE | DIMMING [9] | | CANOPY TYPE [16] | CANOPY FINISH [17]<br>Specify NA for DM |
|---|---|---|---|---|
| | | | | |
| **14W** - 14 W output, up to 1308 lm<br>**20W** - 20 W output, up to 1824 lm<br>**28W** [8] - 28 W output, up to 2450 lm<br><br>[8] Not available with extended temperature range option (ETR). | **INTEGRAL**<br><br>**D1** - 1% 0-10V<br>**ELV** [10] - ELV 120V<br>**TRI** [10] - TRIAC 120V<br><br>[9] PoE (Power-over-Ethernet) compatible. Consult factory for details.<br>[10] Available with 120V only. | **REMOTE** [11, 12]<br><br>**RD1** - 1% 0-10V<br>**RELV** [13] - ELV 120V<br>**RTRI** [13] - TRIAC 120V<br>**RLDE1** [14] - Lutron Hi-lume 1% Eco<br>**RDA** [14] - DALI<br>**RELD1** - eldoLED 1% ECOdrive 0-10V<br>**RELD0** - eldoLED 0.1% SOLOdrive 0-10V<br>**+EB** [15] - Emergency battery<br><br>[11] A remote driver box is provided, see page 4 for details.<br>[12] The remote driver box must be installed in dry/damp environments with ambient temperatures of 0°C to 25°C (32°F to 77°F).<br>[13] Available with 120V only.<br>[14] On-site commissioning is required.<br>[15] For emergency battery, code will be like the following example: RD1+EB. | **FLR** - Flat round canopy, 4" octagonal junction box<br>**DM** - Direct mount<br><br>[16] See page 4 for details. | **FTMWE** - Textured matte white exterior finish<br>**FTMBE** - Textured matte black exterior finish<br>**NA** - None<br><br>[17] Consult factory for custom exterior finishes. |
| <u>SOLA</u><br>**25W** - 25 W output, up to 1400 lm<br><br><u>DUO</u><br>**19W** - 19 W output, up to 1100 lm | <u>SOLA</u><br>**SD1** - Single 0-10V input<br>**SELV** [10] - ELV 120V<br>**STRI** [10] - TRIAC 120V | <u>SOLA</u><br>**RSD1** - Single 0-10V input<br>**RSELV** [13] - ELV 120V<br>**RSTRI** [13] - TRIAC 120V<br><br><u>DUO</u><br>**RDMX** [14] - DMX<br>**RDDA** [14] - DALI DT6<br>**RDDA8** [14] - DALI DT8<br>**RDD1** - Dual 0-10V input for CCT/intensity<br>**RPSQ0** [14] - Lutron T-Series 1% tunable white | | |
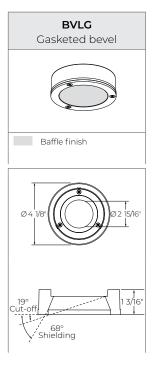
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PoE Power-over-Ethernet

# AERA 4" SEAL CYLINDER

## SURFACE

**Lumenwerx**

## Dimensions

### CYLINDER

8"
10"
12"

4 1/8"

### BAFFLE

| BVLG |
| --- |
| Gasketed bevel |

Baffle finish

Ø 4 1/8"    Ø 2 15/16"

19°
Cut-off

68°
Shielding

1 3/16"

## Accessories

Light element

LSDL, LFDL

Accessory holder

Baffle

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PoE
Power over Ethernet
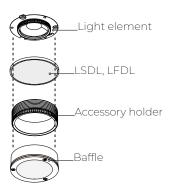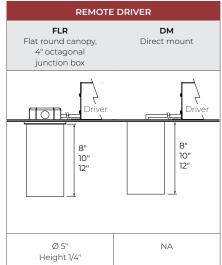
# AERA 4" SEAL CYLINDER
## SURFACE
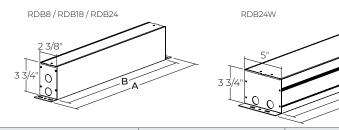
## Mounting

### CANOPY

| | INTEGRAL DRIVER | | REMOTE DRIVER | |
|---|---|---|---|---|
| Order code | **FLR**<br>Flat round canopy,<br>4" octagonal<br>junction box | **DM**<br>Direct mount | **FLR**<br>Flat round canopy,<br>4" octagonal<br>junction box | **DM**<br>Direct mount |
| Canopy type |  | |  | |
| Canopy size | Ø 5"<br>Height 1/4" | NA | Ø 5"<br>Height 1/4" | NA |

### REMOTE DRIVER BOX

RDB8 / RDB18 / RDB24          RDB24W



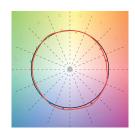| | RDB8 | RDB18 | RDB24 | RDB24W |
|---|---|---|---|---|
| **A** | 10" | 20" | 26" | 26" |
| **B** | 8" | 18" | 24" | 24" |
| **DRIVER** | **RD1** - 1% 0-10V<br>**RELV** - ELV 120V<br>**RTRI** - TRIAC 120V | **RLDE1** - Lutron Hi-lume 1% Eco<br>**RDA** - DALI<br>**RELD1** - eldoLED 1% ECOdrive 0-10V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

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## SURFACE

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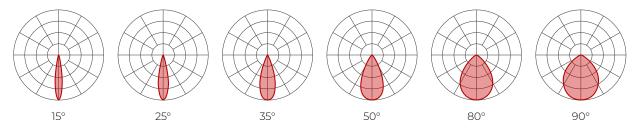
## Color Quality

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

## Photometrics

Values calculated based on 3500K, gasketed 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° |
| 14 W | 1189 | 1221 | 1177 | 1153 | 1037 | 1037 | 915 | 940 | 906 | 887 | 799 | 799 | 1272 | 1308 | 1259 | 1234 | 1110 | 1110 |
| 20 W | 1659 | 1705 | 1641 | 1610 | 1449 | 1449 | 1278 | 1313 | 1264 | 1239 | 1115 | 1115 | 1776 | 1824 | 1756 | 1722 | 1549 | 1549 |
| 28 W | 2228 | 2290 | 2204 | 2160 | 1944 | 1944 | 1716 | 1763 | 1697 | 1663 | 1497 | 1497 | 2383 | 2450 | 2358 | 2311 | 2080 | 2080 |

### 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° |
| 14 W | 85 | 87 | 84 | 82 | 74 | 74 | 65 | 67 | 64 | 64 | 57 | 57 | 91 | 93 | 90 | 88 | 79 | 79 |
| 20 W | 83 | 85 | 82 | 81 | 73 | 73 | 64 | 65 | 63 | 62 | 56 | 56 | 88 | 91 | 87 | 86 | 77 | 77 |
| 28 W | 80 | 82 | 79 | 77 | 70 | 70 | 61 | 63 | 61 | 59 | 53 | 53 | 85 | 87 | 84 | 82 | 74 | 74 |

### MULTIPLIERS

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

| CCT | |
|---|---|
| 2700K | 0.9 |
| 3000K | 0.95 |
| 3500K | 1 |
| 4000K | 1.05 |

| BAFFLE COLOR | | |
|---|---|---|
| Gasketed bevel | White | 1 |
| | Black | 1 |

| ACCESSORIES | |
|---|---|
| Soft diffused lens, Solite | 1 |
| Frosted lens | 0.8 |

For SOLA and DUO, please consult factory.

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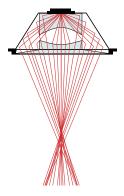
PoE

## 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.

**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 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 and direct
**Finish**: Textured matte white and black. 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**: Gasketed bevel

### WEIGHT

**8"**: 4.4 lbs - 2.0 kg
**10"**: 5.5 lbs - 2.5 kg
**12"**: 6.6 lbs - 3.0 kg

### ACCESSORIES



Soft diffused lens, Solite



Frosted diffused lens

# AERA 4" SEAL CYLINDER
## SURFACE

### ENVIRONMENT

For the standard temperature range (STR) option, ambient temperature at fixture location shall be within 0°C/32°F to 25°C/77°F.

For the extended temperature range (ETR) option, ambient temperature at fixture location shall be within -30°C/-22°F to 40°C/104°F.

### CERTIFICATION

**ETL**: Suitable for wet 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.

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