

AERA 5" CYLINDER

PENDANT


DIRECT/INDIRECT, DIRECT

LUMENWERX




Project: _____


Type: _____



**6" Height
Bevel**




**8" Height
Bevel**



**12" Height
Pinhole**

Beam Angles



15° 25° 35° 50° 80° 90° 80°-Up
Low UGR < 10 in 15°, 25°, 35°, and 50° beams

Performance

| LUMEN OUTPUT ¹ | WATTS | EFFICACY |
|---------------------------|-------|----------|
| 1481 lm | 14 W | 106 lm/W |
| 2066 lm | 20 W | 103 lm/W |
| 2775 lm | 28 W | 99 lm/W |
| 3163 lm | 32 W | 99 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

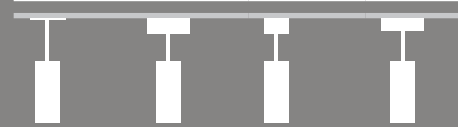
COB

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 |
| Power Cord Stem Swivel Stem | Power Cord Stem Swivel Stem | Power Cord Stem | Power Cord Stem |

Aera Family (Refer to other spec sheets)




Downlight

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

Multi-aperture

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

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 |



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Order Guide

| LUMINAIRE ID | DISTRIBUTION | CYLINDER HEIGHT | | CYLINDER FINISH | BAFFLE STYLE | BAFFLE FINISH | |
|--|--|---|--|-----------------|---|--|---|
| AE5CYP | | | | | | | |
| AE5CYP - Aera 5" Cylinder Pendant | DI - Direct/Indirect D - Direct | DIRECT/INDIRECT ¹ | | DIRECT | FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL# | BVL - Bevel PHL - Pinhole | FTMW - Textured matte white FTMB - Textured matte black FSPC - Specular FSSPC - Semi-specular FCHP - Champagne CF# - Custom finish, specify RAL# |
| | | 6IN - 6" 8IN - 8" 12IN - 12" | 6IN ² - 6" 8IN - 8" 12IN - 12" | | | | |
| | | CH#IN ³ - Custom height | | | | | |
| | | ¹ Only available with DR canopy option when specified with integral drivers. ² Not available with DMNC/DMRM canopy options when specified with integral drivers. ³ Specify height (#) in 1" increments only. Up to maximum 36". For minimum heights, see page 3. | | | | | |

| LENS * | LIGHT SOURCE | DIRECT BEAM | COLOR QUALITY | CRI | COLOR TEMP. | ACCESSORIES * | VOLTAGE |
|---|--|--|---|---|--|---|---|
| See page 3 for details | | | | | | 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 ⁴ - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse | 90CRI ⁵ - 90 CRI 95CRI - 95 CRI 80CRI ⁵ - 80 CRI | 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K | At light element ^{6,7} (choose up to 2 options) LSDL - Soft diffused lens, Solite LFDL - Frosted diffused lens LS - Linear spread HEX - Hex louver NA - None | 120V - 120V 277V - 277V UNV - 120V-277V 347V ⁸ - 347V |
| SDL - Soft diffused lens, Solite FDL - Frosted diffused lens CL - Clear lens NOL - No lens | SOLA - Dim-to-warm single channel control 35K to 22K DUO - Tunable white 2-channel control 65K to 27K | 50DEG - 50° Wide flood | ⁴ Not available with full spectrum. 3STP - 3 Step MacAdam Ellipse | ⁵ Not available with full spectrum. 90CRI - 90 CRI | SOLA - Dim-to-warm single channel control 35K to 22K DUO - Tunable white 2-channel control 65K to 27K | ⁶ If two options are specified, separate codes with a "+", e.g. LSDL+HEX . ⁷ LSDL and LFDL cannot be combined. LS and HEX cannot be combined. | ⁸ Available with RD1 driver only. Please consult factory. |

* 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.

| DIRECT WATTAGE ⁹ | INDIRECT WATTAGE ⁹ Specify NA for Direct | DIMMING ¹⁴ | | ELECTRICAL |
|--|---|--|--|---|
| 14W - 14 W output, up to 1538 lm 20W - 20 W output, up to 2146 lm 28W ^{10,11} - 28 W output, up to 2882 lm 32W ^{10,12} - 32 W output, up to 3285 lm | 14W - 14 W output, up to 1102 lm 20W - 20 W output, up to 1550 lm 28W ^{10,11,13} - 28 W output, up to 2170 lm NA - Not applicable | INTEGRAL D1 - 1% 0-10V ELV ¹⁵ - ELV 120V TRI ¹⁵ - TRIAC 120V | REMOTE ¹⁶ RD1 - 1% 0-10V RELV ¹⁷ - ELV 120V RTRI ¹⁷ - TRIAC 120V | 1C - 1 circuit 2C ²⁰ - 2 circuits |
| ⁹ Lumen outputs are reduced with full spectrum, consult factory. ¹⁰ Not available with full spectrum. ¹¹ Not available with integral drivers for a Direct/Indirect fixture. ¹² Not available with integral drivers. ¹³ Not available with 32W direct wattage. | | ¹⁴ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹⁵ Available with 120V only. | ¹⁶ A remote driver box is provided, see page 5 for details. ¹⁷ Available with 120V only. | ²⁰ Available with Direct/Indirect only. |
| SOLA 25W - 25 W output, up to 1400 lm DUO 19W - 19 W output, up to 1100 lm | SOLA 12W - 12 W output, up to 482 lm DUO 11W - 11 W output, up to 305 lm NA - Not applicable | 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 RPSQO ¹⁸ - Lutron T-Series 1% tunable white |

| CANOPY TYPE ²¹ | CANOPY FINISH | SUSPENSION |
|---|---|--|
| FLR ^{22,23} - Flat round canopy, 4" octagonal junction box CDR ^{22,23} - Conduit feed, round canopy DMNC ^{22,24} - Direct mount, new construction DMRM ^{22,24,25} - Direct mount, remodel DR ^{26,27} - Deep round canopy, driver(s) in canopy | FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL# | POWER CORD ²⁸ BPC##IN - Black PVC WPC##IN - White PVC CF#F##IN ^{29,30,31} - Custom color fabric, consult factory |
| ²¹ See page 4 for details. ²² Direct/Indirect requires a remote driver. ²³ 6" long cylinders require a remote driver, or a j-box for integral drivers. See page 4 for details. ²⁴ 6" long cylinders require a remote driver. ²⁵ Single wiring entry only. No daisy chain connections allowed. ²⁶ Available with integral driver only. ²⁷ For Direct, one driver in canopy. For Direct/Indirect, 2 drivers in canopy. | | ²⁸ Min 18" - max 72", specify length (##) in inches. ²⁹ Not available with D1 and SD1 dimming options. ³⁰ Not available for DI fixture. ³¹ Specify fabric color (#). |
| | | STEM ³² BKS##IN - Textured black stem WHS##IN - Textured white stem BKSS##IN ³³ - Textured black swivel stem WHSS##IN ³³ - Textured white swivel stem CF#S##IN ³⁴ - Custom finish stem CF#SS##IN ^{33,34} - Custom finish swivel stem |
| | | ³² Min 10" - max 72", specify length (##) in inches. ³³ Not available with DMNC/DMRM/DR canopy options, or for 6" long cylinders when specified with FLR/CDR and integral driver. ³⁴ Specify RAL#. |

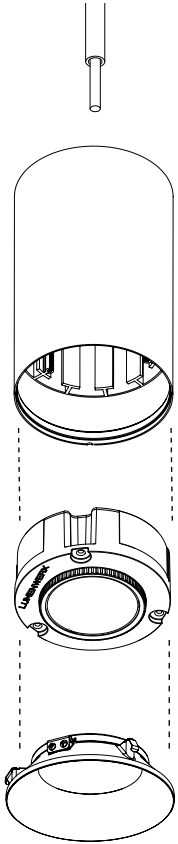
AERA 5" CYLINDER

LUMENWERX

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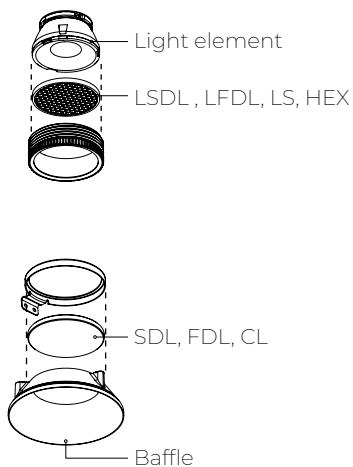
DIRECT/INDIRECT, DIRECT

Overview



AESCYP
Aera 5"
Cylinder
Pendant

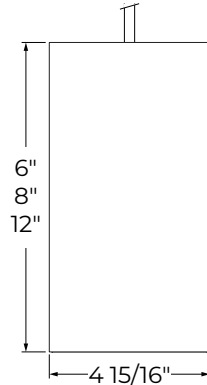
LENS AND ACCESSORIES



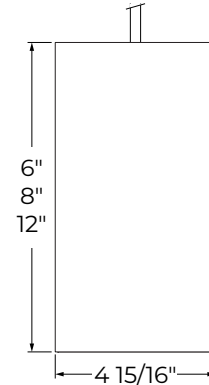
Dimensions

CYLINDER

Direct/Indirect



Direct

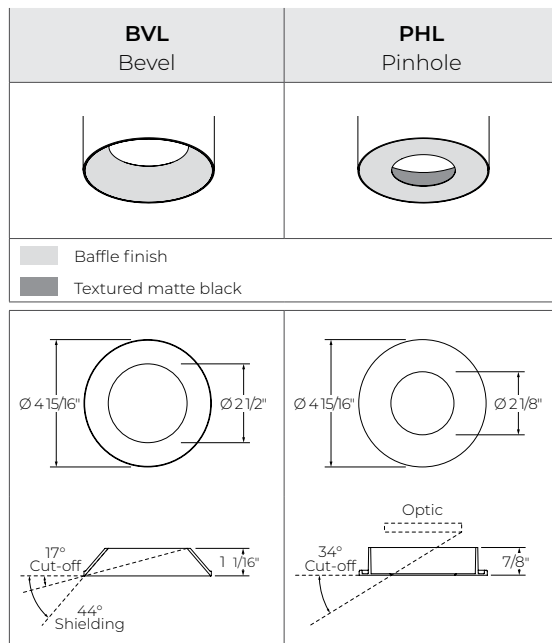


Minimum heights - Cylinder

| Size | Distribution | Integral driver in cylinder | Integral driver in canopy or J-box | Remote driver |
|------|-----------------|-----------------------------|------------------------------------|---------------|
| Ø5" | Direct/Indirect | NA | 6" | 6" |
| | Direct | 8" | 6" | 6" |

*Consult factory for maximum heights.

BAFFLE



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Mounting

CANOPY

| INTEGRAL 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, driver(s) in canopy |
| Canopy type | | | | | |
| Distribution | Direct | | | | Direct/Indirect Direct |
| Canopy size | Ø 4 5/8" Height 1/4" | Ø 5 1/2" Height 1 15/16" | Ø 4 15/16" Height 2" | | Ø 5 5/8" Height 1 3/8" |
| Suspension | Power cord, Stem, Swivel stem ¹ ¹ Not available for 6" long cylinders specified with FLR/CDR. | | Power cord, Stem | | |
| Min. height | 6" (Driver in junction box) 8" (Driver in cylinder) | | 8" | | 6" |
| | | | | | Single wiring entry only. No daisy chain connections allowed. |
| | | | | | D/I - 2 drivers in canopy D - 1 driver in canopy |

| 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 | |
| Canopy type | | | | | |
| Distribution | Direct/Indirect Direct | | | | |
| Canopy size | Ø 4 5/8" Height 1/4" | Ø 5 1/2" Height 1 15/16" | Ø 4 15/16" Height 2" | | |
| Suspension | Power cord, Stem, Swivel stem | | Power cord, Stem | | |
| Min. height | 6" | | | | |
| | | | | | Single wiring entry only. No daisy chain connections allowed. |

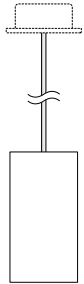
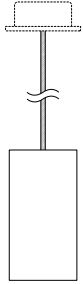
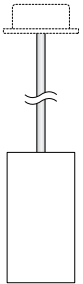
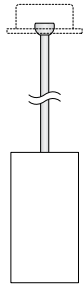
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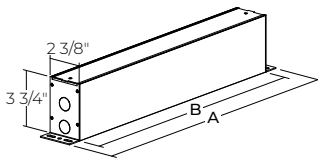
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SUSPENSION

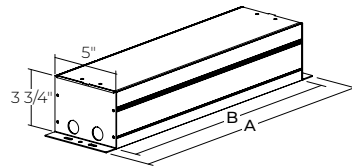
| POWER CORD | | STEM | |
|---|---|--|---|
| PVC | Fabric ^{1,2} | Stem | Swivel stem ³ |
|  |  |  |  |
| Power Cord Lengths | | Stem Lengths | |
| Min 18" Max 72" | Min 18" Max 72" | Min 10" Max 72" | Min 10" Max 72" Max 45° tilt |
| ¹ Not available with DI and SDI dimming options. ² Not available for DI fixture. | | ³ Not available with DMNC/DMRM/DR canopy options, or for 6" long cylinders when specified with FLR/CDR and integral driver. | |

REMOTE DRIVER BOX

RDB8 / RDB18 / RDB24



RDB24W



| | RDB8 | RDB18 | RDB24 | RDB24W |
|---------------|--|--|---|--|
| A | 10" | 20" | 26" | 26" |
| B | 8" | 18" | 24" | 24" |
| DRIVER | RDI - 1% 0-10V RELV - ELV 120V RTRI - TRIAC 120V SOLA RSDI - Single 0-10V input RSELV - ELV 120V RSTRI - TRIAC 120V | RLDEI - Lutron Hi-Lume 1% Eco RDA - DALI RELDI - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V | Emergency battery (+EB) with the following driver options. RDI+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 RPSQO - Lutron T-Series 1% tunable white | Emergency battery (+EB) with the following driver options. RLDEI+EB - Lutron Hi-Lume 1% Eco RDA+EB - DALI RELDI+EB - eldoLED 1% ECOdrive 0-10V RELD0+EB - eldoLED 0.1% SOLOdrive 0-10V |

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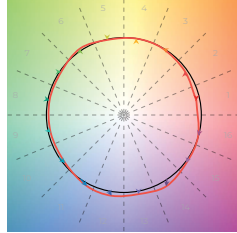
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Color Quality

COLOR QUALITY - 3500K

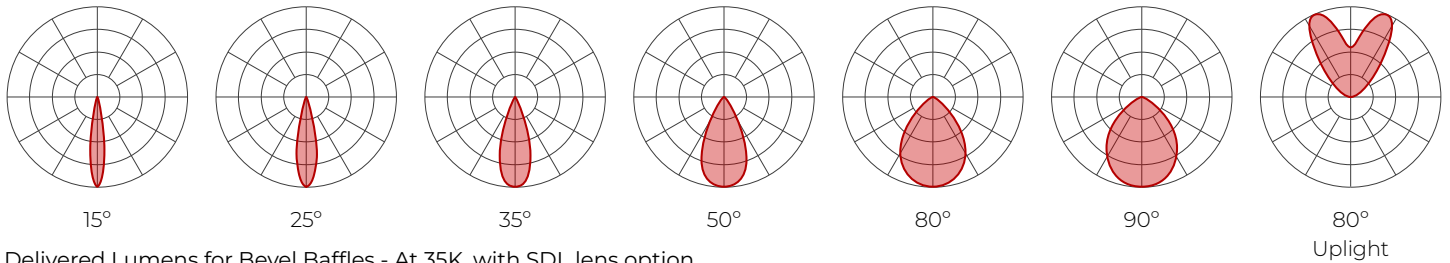
| | |
|----------------------|------|
| TM-30 R _r | 90 |
| TM-30 R _g | 100 |
| CRI | 90 |
| R9 | > 50 |



Photometrics

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

PENDANT



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

| BEAM | 90 CRI | | | | | | | 95 CRI | | | | | | | 80 CRI | | | | | | |
|------|--------|------|------|------|------|------|---------|--------|------|------|------|------|------|---------|--------|------|------|------|------|------|---------|
| | 15 | 25 | 35 | 50 | 80 | 90 | Uplight | 15 | 25 | 35 | 50 | 80 | 90 | Uplight | 15 | 25 | 35 | 50 | 80 | 90 | Uplight |
| 14 W | 1399 | 1437 | 1384 | 1356 | 1220 | 1220 | 1029 | 1077 | 1106 | 1066 | 1044 | 940 | 940 | 792 | 1497 | 1538 | 1481 | 1451 | 1306 | 1306 | 1102 |
| 20 W | 1952 | 2006 | 1931 | 1893 | 1704 | 1704 | 1448 | 1503 | 1545 | 1487 | 1458 | 1312 | 1312 | 1114 | 2089 | 2146 | 2066 | 2026 | 1823 | 1823 | 1550 |
| 28 W | 2621 | 2693 | 2593 | 2541 | 2287 | 2287 | 2027 | 2018 | 2074 | 1997 | 1957 | 1761 | 1761 | 1560 | 2804 | 2882 | 2775 | 2719 | 2447 | 2447 | 2170 |
| 32 W | 2988 | 3070 | 2956 | 2896 | 2607 | 2607 | NA | 2300 | 2364 | 2276 | 2231 | 2007 | 2007 | NA | 3196 | 3285 | 3163 | 3099 | 2789 | 2789 | NA |

Efficacy Based on Delivered Lumens

| BEAM | 90 CRI | | | | | | | 95 CRI | | | | | | | 80 CRI | | | | | | |
|------|--------|-----|----|----|----|----|---------|--------|----|----|----|----|----|---------|--------|-----|-----|-----|----|----|---------|
| | 15 | 25 | 35 | 50 | 80 | 90 | Uplight | 15 | 25 | 35 | 50 | 80 | 90 | Uplight | 15 | 25 | 35 | 50 | 80 | 90 | Uplight |
| 14 W | 100 | 103 | 99 | 97 | 87 | 87 | 74 | 77 | 79 | 76 | 75 | 67 | 67 | 57 | 107 | 110 | 106 | 104 | 93 | 93 | 79 |
| 20 W | 98 | 100 | 97 | 95 | 85 | 85 | 72 | 75 | 77 | 74 | 73 | 66 | 66 | 56 | 104 | 107 | 103 | 101 | 91 | 91 | 78 |
| 28 W | 94 | 96 | 93 | 91 | 82 | 82 | 72 | 72 | 74 | 71 | 70 | 63 | 63 | 56 | 100 | 103 | 99 | 97 | 87 | 87 | 78 |
| 32 W | 93 | 96 | 92 | 90 | 81 | 81 | NA | 72 | 74 | 71 | 70 | 63 | 63 | NA | 100 | 103 | 99 | 97 | 87 | 87 | NA |

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

For SOLA and DUO, please consult factory.

* 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

DIRECT/INDIRECT - EFFICACY CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\frac{\left(\begin{matrix} \text{DIRECT} \\ \text{DELIVERED LM} \end{matrix} + \begin{matrix} \text{UPLIGHT} \\ \text{DELIVERED LM} \end{matrix} \right)}{\left(\begin{matrix} \text{DIRECT} \\ \text{WATTAGE} \end{matrix} + \begin{matrix} \text{UPLIGHT} \\ \text{WATTAGE} \end{matrix} \right)} = \text{EFFICACY}$$

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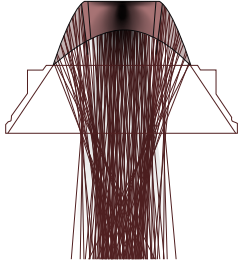
DIRECT/INDIRECT, DIRECT

LUMENWERX

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

Power Cord: Black and white PVC, custom color fabric. 18" to 72" standard length

Stem: Rigid stem and swivel stem 10" to 72" standard length

Canopy: Flat, conduit feed, direct, and deep

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

| Direct/Indirect | Direct |
|-----------------------|-----------------------|
| 6" - 3.4 lbs - 1.5 kg | 6" - 2.5 lbs - 1.1 kg |
| 8" - 4.5 lbs - 2 kg | 8" - 3.5 lbs - 1.5 kg |
| 12" - 5 lbs - 2.2 kg | 12" - 4 lbs - 1.8 kg |

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LUMENWERX

BAFFLE

Die-cast aluminum

Baffle style: Bevel and pinhole.

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).

CERTIFICATION

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.