

AERA 3" CYLINDER

SURFACE WALL WASH



Declare.



4" Height



8" Height



12" Height

True-to-size with a versatile minimalist esthetic, Aera Cylinder luminaires are high-performance fixtures, delivering visually comfortable lighting suitable for a wide range of applications.

Mounting Options



Flat

Conduit

Direct

Beam Angle



Low UGR < 10

Wall Wash

Performance

LUMEN OUTPUT ¹	WATTS	EFFICACY
601 lm	10 W	43 lm/W
822 lm	14 W	59 lm/W
1135 lm	20 W	57 lm/W

¹Lumen packages are assuming 3500K, 80 CRI.

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)

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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Project: _____

Type: _____

Order Guide



For an ENERGY STAR® certified fixture, see page 3.
For a Title 24 JA8 compliant fixture, see page 4.

LUMINAIRE ID ¹	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE3CYSWW	D			WW	
AE3CYSWW - Aera 3" Cylinder Surface Wall Wash ¹ Surface (direct) and Surface Asymmetric also available. Consult other spec sheet.	D - Direct	4IN ² - 4" 8IN - 8" 12IN - 12" CH#IN ³ - Custom height 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 5.	FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL#	WW - Wall wash	FTMW - Textured matte white FTMB - Textured matte black FSPC - Specular FSSPC - Semi-specular FCHP - Champagne CF# - Custom finish, specify RAL#

LENS	LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP.	VOLTAGE
WW		WW				
WW - Wall wash diffuser	SW - Static white FS - Full spectrum SOLA - Dim-to-warm single channel control DUO - Tunable white 2-channel control	WW - Wall wash	2STP ⁴ - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse ⁴ Not available with full spectrum. 3STP - 3 Step MacAdam Ellipse	90CRI ⁵ - 90 CRI 95CRI - 95 CRI 80CRI ⁵ - 80 CRI ⁵ Not available with full spectrum. 90CRI - 90 CRI	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K SOLA ⁶ - Dim-to-warm single channel control DUO ⁷ - Tunable white 2-channel control ⁶ 3500K to 2200K ⁷ 6500K to 2700K	120V - 120V 277V - 277V UNV - 120V-277V 347V ⁸ - 347V ⁸ Available with RD1 driver only. Please consult factory.

WATTAGE ⁹	DIMMING ¹⁰	CANOPY TYPE ¹⁶	CANOPY FINISH Specify NA for DM	OPTION ²⁰
				NA
10W - 10 W output, up to 601 lm 14W - 14 W output, up to 822 lm 20W - 20 W output, up to 1135 lm ⁹ Lumen outputs are reduced with full spectrum, consult factory.	INTEGRAL D1 - 1% 0-10V ELV ¹¹ - ELV 120V TRI ¹¹ - TRIAC 120V ¹⁰ PoE (Power-over-Ethernet) compatible. Consult factory for details. ¹¹ Available with 120V only.	REMOTE ¹² RD1 - 1% 0-10V RELV ¹³ - ELV 120V RTRI ¹³ - TRIAC 120V RLDET ¹⁴ - Lutron Hi-lume 1% Eco RDA ¹⁴ - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V +EB ¹⁵ - Emergency battery ¹² A remote driver box is provided, see page 6 for details. ¹³ Available with 120V only. ¹⁴ On-site commissioning is required. ¹⁵ For emergency battery, code will be like the following example: RD1+EB.	FLR ¹⁷ - Flat round canopy, 4" octagonal junction box CDR ¹⁷ - Conduit feed, round canopy DMNC ¹⁸ - Direct mount, new construction DMRM ^{18,19} - Direct mount, remodel ¹⁶ See page 6 for details. ¹⁷ For 4" long cylinders, driver has to be in j-box when specified with integral drivers. See page 6 for details. ¹⁸ 4" long cylinders require a remote driver. ¹⁹ Single wiring entry only. No daisy chain connections allowed.	FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL# NA - Not applicable ²⁰ To specify an ENERGY STAR certified fixture, see page 3. To specify a JA8 compliant fixture, see page 4.
SOLA 12W - 12 W output, up to 930 lm DUO 11W - 11 W output, up to 517 lm	SOLA SD1 - Single 0-10V input SELV ¹¹ - ELV 120V STRI ¹¹ - TRIAC 120V	SOLA RSD1 - Single 0-10V input RSELV ¹³ - ELV 120V RSTRI ¹³ - TRIAC 120V DUO RDMX ¹⁴ - DMX RDDA ¹⁴ - DALI DT6 RDDA8 ¹⁴ - DALI DT8 RDD1 - Dual 0-10V input for CCT/intensity RLD2 ¹⁴ - Lutron DALI-2 digital		

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ENERGY STAR



Project: _____

Type: _____



Order Guide

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AE3CYSWW	D			WW	
AE3CYSWW - Aera 3" Cylinder Surface Wall Wash ¹ Surface (direct) and Surface Asymmetric also available. Consult other spec sheet.	D - Direct	4IN ² - 4" 8IN - 8" 12IN - 12" CH#IN ³ - Custom height 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 5.	FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL#	WW - Wall wash	FTMW - Textured matte white FTMB - Textured matte black FSPC - Specular FSSPC - Semi-specular FCHP - Champagne CF# - Custom finish, specify RAL#

LENS	LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP.	VOLTAGE
WW	SW	WW	2STP			
WW - Wall wash diffuser	SW - Static white	WW - Wall wash	2STP - 2 Step MacAdam Ellipse	90CRI - 90 CRI 80CRI - 80 CRI	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K	120V - 120V 277V - 277V UNV - 120V-277V

WATTAGE	DIMMING		CANOPY TYPE ⁸	CANOPY FINISH Specify NA for DM	OPTION
					ES
10W - 10 W output, up to 601 lm 14W - 14 W output, up to 822 lm	INTEGRAL	REMOTE ⁵	FLR ⁹ - Flat round canopy, 4" octagonal junction box CDR ⁹ - Conduit feed, round canopy DMNC ¹⁰ - Direct mount, new construction DMRM ^{10,11} - Direct mount, remodel ⁸ See page 6 for details. ⁹ For 4" long cylinders, driver has to be in j-box when specified with integral drivers. See page 6 for details. ¹⁰ 4" long cylinders require a remote driver. ¹¹ Single wiring entry only. No daisy chain connections allowed.	FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL# NA - Not applicable	ES - ENERGY STAR
	D1 - 1% 0-10V ELV ⁴ - ELV 120V TRI ⁴ - TRIAC 120V ⁴ Available with 120V only.	RD1 - 1% 0-10V RELV ⁶ - ELV 120V RTRI ⁶ - TRIAC 120V RLDEI ⁷ - Lutron Hi-lume 1% Eco ⁵ A remote driver box is provided, see page 6 for details. ⁶ Available with 120V only. ⁷ On-site commissioning is required.			

AERA 3" CYLINDER

SURFACE WALL WASH

Title 24 JA8



Project: _____

Type: _____



Order Guide

LUMINAIRE ID ¹	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE3CYSWW	D			WW	
AE3CYSWW - Aera 3" Cylinder Surface Wall Wash ¹ Surface (direct) and Surface Asymmetric also available. Consult other spec sheet.	D - Direct	4IN ² - 4" 8IN - 8" 12IN - 12" CH#IN ³ - Custom height 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 5.	FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL#	WW - Wall wash	FTMW - Textured matte white FTMB - Textured matte black FSPC - Specular FSSPC - Semi-specular FCHP - Champagne CF# - Custom finish, specify RAL#

LENS	LIGHT SOURCE	BEAM	COLOR QUALITY	CRI	COLOR TEMP.	VOLTAGE
WW		WW		90CRI		
WW - Wall wash diffuser	SW - Static white SOLA - Dim-to-warm single channel control	WW - Wall wash	2STP - 2 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse 3STP - 3 Step MacAdam Ellipse	90CRI - 90 CRI	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K SOLA ⁴ - Dim-to-warm single channel control ⁴ 3500K to 2200K	120V - 120V 277V - 277V UNV - 120V-277V

WATTAGE	DIMMING		CANOPY TYPE ⁹	CANOPY FINISH Specify NA for DM	OPTION
					JA8
10W - 10 W output, up to 601 lm 14W - 14 W output, up to 822 lm	INTEGRAL	REMOTE ⁶	FLR ¹⁰ - Flat round canopy, 4" octagonal junction box CDR ¹⁰ - Conduit feed, round canopy DMNC ¹¹ - Direct mount, new construction DMRM ^{11,12} - Direct mount, remodel ⁹ See page 6 for details. ¹⁰ For 4" long cylinders, driver has to be in j-box when specified with integral drivers. See page 6 for details. ¹¹ 4" long cylinders require a remote driver. ¹² Single wiring entry only. No daisy chain connections allowed.	FTMW - Textured matte white FTMB - Textured matte black FCHP - Champagne CF# - Custom finish, specify RAL# NA - Not applicable	JA8 - JA8 compliant
	D1 - 1% 0-10V ELV ⁵ - ELV 120V TRI ⁵ - TRIAC 120V ⁵ Available with 120V only.	RD1 - 1% 0-10V RELV ⁷ - ELV 120V RTRI ⁷ - TRIAC 120V RLDE1 ⁸ - Lutron Hi-lume 1% Eco ⁶ A remote driver box is provided, see page 6 for details. ⁷ Available with 120V only. ⁸ On-site commissioning is required.			
12W - 12 W output, up to 930 lm	SD1 - Single 0-10V input SELV ⁵ - ELV 120V STRI ⁵ - TRIAC 120V	RSD1 - Single 0-10V input RSELV ⁷ - ELV 120V RSTRI ⁷ - TRIAC 120V			

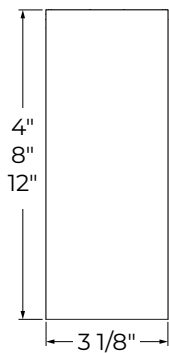
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Dimensions

CYLINDER

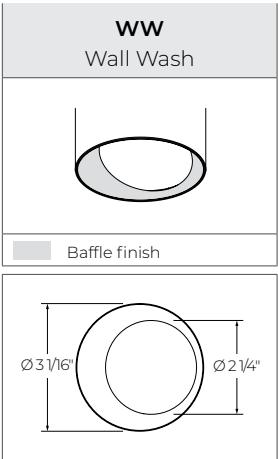


Minimum heights - Cylinder

Size	Integral driver in cylinder	Integral driver in J-box	Remote driver
Ø 3"	7"	4"	4"

*Consult factory for maximum heights.

BAFFLE



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Mounting

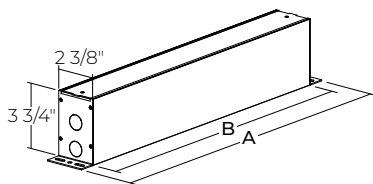
CANOPY

INTEGRAL DRIVER					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	FLR Flat round canopy, 4" octagonal junction box	CDR Conduit feed, round canopy	DMNC Direct mount, new construction	DMRM * Direct mount, remodel	
Canopy type									
Canopy size	Ø 4 1/2" Height 3/8"	Ø 5 1/2" Height 1 15/16"	NA		Ø 4 1/2" Height 3/8"	Ø 5 1/2" Height 1 15/16"	NA		
Min. height	4" (Driver in junction box) 8" (Driver in cylinder)		8"		4"				

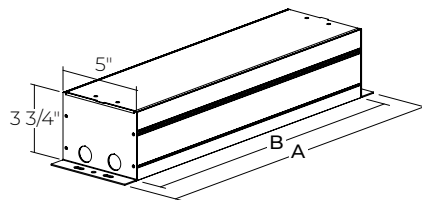
* Single wiring entry only. No daisy chain connections allowed.

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 REL - ELV 120V RT - TRIAC 120V SOLA RSD1 - Single 0-10V input RSELV - ELV 120V RST - 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 REL+EB - ELV 120V RT+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

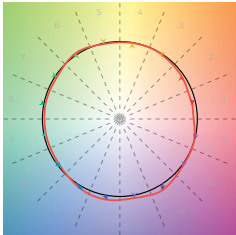
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Color Quality

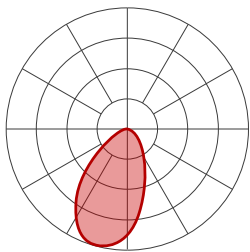
COLOR QUALITY - 3500K	
TM-30 R _f	90
TM-30 R _g	100
CRI	90
R9	> 50



Photometrics

WALL WASH

Values calculated based on 3500K and white wall wash baffle.



CRI	90 CRI		95 CRI		80 CRI	
	lm	lm/W	lm	lm/W	lm	lm/W
10 W	562	56	433	43	601	60
14 W	768	55	591	42	822	59
20 W	1061	53	817	41	1135	57

MULTIPLIERS

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

CCT		BAFFLE COLOR	
2700K	0.9	White	1
3000K	0.95	Black	1
3500K	1		
4000K	1.05		

For SOLA and DUO, please consult factory.



AERA 3" CYLINDER

SURFACE WALL WASH

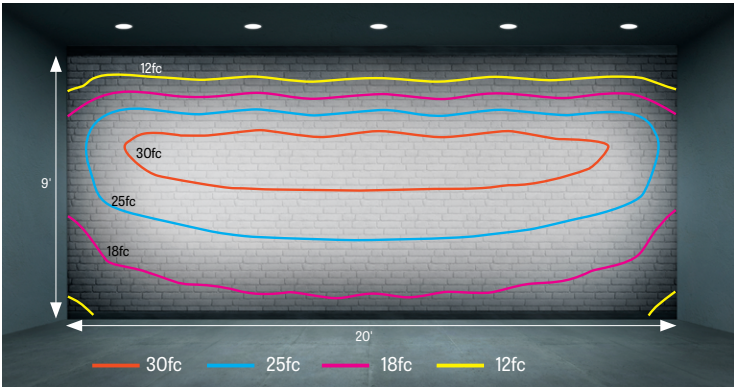


Photometrics

UNIFORMITY

Values calculated based on 3500K and white wall wash baffle.

24" from Wall - 36" Spacing



Foot-candles

FC ON WALL		24" FROM WALL - 24" SPACING			24" FROM WALL - 36" SPACING			24" FROM WALL - 48" SPACING		
ABOVE FINISHED FLOOR		90 CRI	95 CRI	80 CRI	90 CRI	95 CRI	80 CRI	90 CRI	95 CRI	80 CRI
	9'	10	7	10	6	5	7	5	4	5
	8'	40	31	43	25	19	27	19	15	21
	7'	54	41	57	35	27	37	27	20	28
	6'	46	35	49	30	23	32	23	18	25
	5'	34	26	37	23	18	25	17	13	19
	4'	26	20	28	18	14	19	13	10	14
	3'	21	16	22	14	11	15	11	8	11
	2'	17	13	18	12	9	12	9	7	9
	1'	15	11	16	10	8	11	8	6	8

AERA 3" CYLINDER

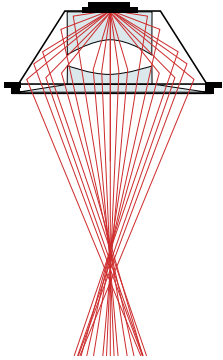
SURFACE WALL WASH



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. Two color temperature range options are offered: 3000K to 1800K, and 2700K to 1800K. 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 to warm LED arrays - maintaining a CRI above 90. Two color temperature range options are offered: 6500K to 2700K, and 5000K to 2700K. 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

Canopy: Flat, conduit feed, and direct

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

Baffle: Die-cast aluminum

Baffle style: Wall Wash

WEIGHT

4": 1.4 lbs - 0.6 kg

8": 2 lbs - 0.9 kg

12": 2.4 lbs - 1.1 kg

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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.

ENERGY STAR: ENERGY STAR certified

Title 24 JA8: California Building Standards Code

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.