AERA 4" CYLINDER
SURFACE WALL WASH

Lumenwerx

5 YEAR WARRANTY **5**

JA8 TITLE 24 · Energy ENERGY STAR · 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

Wall Wash   Low UGR < 10

Performance

LUMEN OUTPUT [1]	WATTS	EFFICACY
763 lm	14 W	54 lm/W
1216 lm	20 W	61 lm/W
1632 lm	28 W	58 lm/W

[1] Lumen 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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PoE Power over Ethernet

AERA 4" CYLINDER
SURFACE WALL WASH

Lumenwerx

Project: _____

Type: _____

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

Order Guide

LUMINAIRE ID [1]	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE4CYSWW	**D**			**WW**	
AE4CYSWW - Aera 4" 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	**WW** - Wall wash	**2STP** [4] - 2 Step MacAdam Ellipse **3STP** - 3 Step MacAdam Ellipse [4] Not available with full spectrum.	**90CRI** [5] - 90 CRI **95CRI** - 95 CRI **80CRI** [5] - 80 CRI [5] Not available with full spectrum.	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [8] - 347V [8] Available with RD1 driver only. Please consult factory.
	SOLA - Dim-to-warm single channel control **DUO** - Tunable white 2-channel control		**3STP** - 3 Step MacAdam Ellipse	**90CRI** - 90 CRI	**SOLA** [6] - Dim-to-warm single channel control **DUO** [7] - Tunable white 2-channel control [6] 3500K to 2200K [7] 6500K to 2700K	

WATTAGE [9]	DIMMING [10]		CANOPY TYPE [16]	CANOPY FINISH Specify NA for DM	OPTION [20]
					NA
14W - 14 W output, up to 763 lm **20W** - 20 W output, up to 1216 lm **28W** - 28 W output, up to 1632 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 **RLDE1** [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	**NA** - None [20] To specify an ENERGY STAR certified fixture, see page 3. To specify a JA8 compliant fixture, see page 4.
SOLA **25W** - 25 W output, up to 1442 lm **DUO** **19W** - 19 W output, up to 992 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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AERA 4" CYLINDER
SURFACE WALL WASH
ENERGY STAR

Lumenwerx

Project: _____

Type: _____

ENERGY STAR

Order Guide

LUMINAIRE ID [1]	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE4CYSWW	**D**			**WW**	
AE4CYSWW - Aera 4" 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
14W					**ES**
14W - 14 W output, up to 763 lm	**INTEGRAL** **D1** - 1% 0-10V **ELV** [4] - ELV 120V **TRI** [4] - TRIAC 120V [4]Available with 120V only.	**REMOTE** [5] **RD1** - 1% 0-10V **RELV** [6] - ELV 120V **RTRI** [6] - TRIAC 120V **RLDE1** [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.	**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

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AERA 4" CYLINDER
SURFACE WALL WASH
Title 24 JA8

Lumenwerx

Project: _____

Type: _____

COMPLIANT WITH
JA8
TITLE 24

Order Guide

LUMINAIRE ID [1]	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
AE4CYSWW	**D**			**WW**	
AE4CYSWW - Aera 4" 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**		**90CRI**		
WW - Wall wash diffuser	**SW** - Static white	**WW** - Wall wash	**2STP** - 2 Step MacAdam Ellipse **3STP** - 3 Step MacAdam Ellipse	**90CRI** - 90 CRI	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K	**120V** - 120V **277V** - 277V **UNV** - 120V-277V
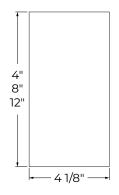
WATTAGE	DIMMING		CANOPY TYPE [8]	CANOPY FINISH Specify NA for DM	OPTION
14W					**JA8**
14W - 14 W output, up to 763 lm	**INTEGRAL** **D1** - 1% 0-10V **ELV** [4] - ELV 120V **TRI** [4] - TRIAC 120V [4] Available with 120V only.	**REMOTE** [5] **RD1** - 1% 0-10V **RELV** [6] - ELV 120V **RTRI** [6] - TRIAC 120V **RLDE1** [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.	**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	**JA8** - JA8 compliant

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AERA 4" CYLINDER
SURFACE WALL WASH

Lumenwerx

Dimensions

CYLINDER

4"
8"
12"

4 1/8"

Minimum heights - Cylinder

Size	Integral driver in cylinder	Integral driver in J-box	Remote driver
Ø 4"	8"	4"	4"

*Consult factory for maximum heights.

BAFFLE

WW Wall Wash

Baffle finish

Ø 4 1/16"   Ø 3 1/16"

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PoE
Power over Ethernet

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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
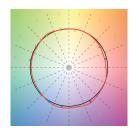
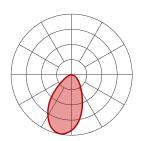|	**RDB8**	**RDB18**	**RDB24**	**RDB24W**
A	10"	20"	26"	26"
B	8"	18"	24"	24"
DRIVER	**RD1** - 1% 0-10V **RELV** - ELV 120V **RTRI** - TRIAC 120V SOLA **RSD1** - Single 0-10V input **RSELV** - ELV 120V **RSTRI** - TRIAC 120V	**RLDE1** - Lutron Hi-lume 1% Eco **RDA** - DALI **RELD1** - eldoLED 1% ECOdrive 0-10V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V	Emergency battery (+EB) with the following driver options. **RD1+EB** - 1% 0-10V **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 **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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PoE Powered over Ethernet

AERA 4" CYLINDER
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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 and white wall wash baffle.

Wall Wash

Delivered lumens

CRI	90 CRI		95 CRI		80 CRI	
	lm	lm/W	lm	lm/W	lm	lm/W
14 W	713	51	549	39	763	54
20 W	1136	57	875	44	1216	61
28 W	1525	54	1174	42	1632	58

MULTIPLIERS

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

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

BAFFLE COLOR	
White	1
Black	1

For SOLA and DUO, please consult factory.

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AERA 4" CYLINDER
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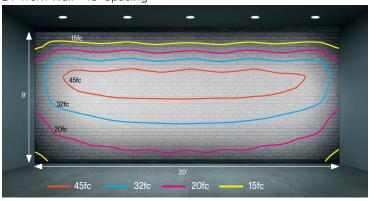
Photometrics

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

24" from Wall - 48" Spacing

| | 45fc | | 32fc | | 20fc | | 15fc |

Foot-candles

FC ON WALL		24" FROM WALL - 24" SPACING			24" FROM WALL - 36" SPACING			24" FROM WALL - 48" SPACING			24" FROM WALL - 60" SPACING		
		90 CRI	95 CRI	80 CRI	90 CRI	95 CRI	80 CRI	90 CRI	95 CRI	80 CRI	90 CRI	95 CRI	80 CRI
ABOVE FINISHED FLOOR	9'	11	9	12	7	5	7	6	5	6	5	4	6
	8'	51	39	54	31	24	33	27	20	28	25	19	26
	7'	70	54	74	45	34	48	36	28	39	33	25	35
	6'	61	47	65	40	31	43	31	24	33	27	21	29
	5'	47	36	50	31	24	34	24	18	25	20	15	21
	4'	36	28	39	25	19	26	18	14	20	15	12	16
	3'	29	22	31	20	15	21	14	11	15	12	9	13
	2'	24	18	26	16	13	18	12	9	13	10	8	11
	1'	21	16	22	14	11	15	10	8	11	9	7	9

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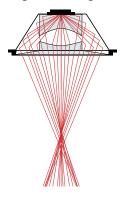
Technical Specifications

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 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": 2.2 lbs - 1 kg
8": 2.9 lbs - 1.3 kg
12": 3.4 lbs - 1.5 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.

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