

# AERA 3" CYLINDER

WALL, WALL ASYMMETRIC

DIRECT/INDIRECT, DIRECT, INDIRECT



Declare.

8" Height  
Bevel



8" Height  
Decorative Bevel

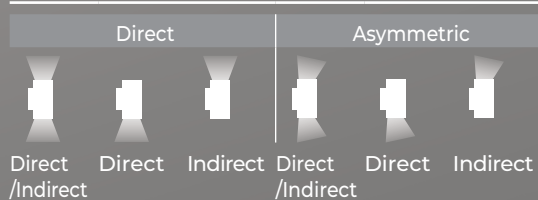


12" Height  
Pinhole



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.

## Distributions



## Mounting Options



## Beam Angles



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

## Performance

LUMEN OUTPUT <sup>1</sup>	WATTS	EFFICACY
1132 lm	10 W	113 lm/W
1545 lm	14 W	110 lm/W
2135 lm	20 W	107 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

## Drivers / Protocols

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



Smart / Wireless Compatible

## 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

www.lumenwerx.com  
T (514) 225-4304

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AERA3-CYLINDER-WALL-SPEC-REV6 March 6, 2025



# AERA 3" CYLINDER

WALL, WALL ASYMMETRIC

DIRECT/INDIRECT, DIRECT, INDIRECT



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

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

## Order Guide



To specify a Title 24 JAB compliant fixture, see page 3.

LUMINAIRE ID	DISTRIBUTION	CYLINDER HEIGHT <sup>1</sup>		CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH	
<b>AE3CYW</b> - Aera 3" Cylinder Wall <b>AE3CYWASY</b> - Aera 3" Cylinder Wall Asymmetric	<b>DI</b> - Direct/Indirect <b>D</b> - Direct <b>I</b> - Indirect	<b>DIRECT/INDIRECT</b> <b>6IN</b> <sup>2</sup> - 6" <b>8IN</b> <sup>2</sup> - 8" <b>12IN</b> <sup>3</sup> - 12" <b>14IN</b> - 14"  <sup>1</sup> For minimum heights, see dimensions on page 4. <sup>2</sup> Available with remote driver only. <sup>3</sup> Available with remote driver only when specified with Wall Asymmetric.	<b>DIRECT OR INDIRECT</b> <b>6IN</b> <sup>3</sup> - 6" <b>8IN</b> - 8" <b>12IN</b> - 12" <b>14IN</b> - 14"	<b>FTMW</b> - Matte white <b>FTMB</b> - Matte black <b>FCHP</b> - Champagne <b>FDBZ</b> - Dark bronze <b>CF#</b> - Custom finish, specify RAL#	<b>BVL</b> - Bevel <b>PHL</b> - Pinhole <b>BVLD</b> - Decorative bevel	<b>FTMW</b> - Matte white <b>FTMB</b> - Matte black <b>FSPC</b> - Satin silver <b>FSSPC</b> - Matte silver <b>FCHP</b> - Champagne <b>FDBZ</b> - Dark bronze <b>CF#</b> - Custom finish, specify RAL#	
LENS *	LIGHT SOURCE	DIRECT BEAM Specify NA for Indirect	INDIRECT BEAM Specify NA for Direct	COLOR QUALITY	CRI	COLOR TEMP.	ACCESSORIES *
See page 4 for details							See page 4 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 static white  <b>SOLA</b> - Dim-to-warm single channel control <b>DUO</b> - Tunable white 2-channel control	<b>10DEG</b> - 10° Very narrow spot <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> <sup>4</sup> - 80° Very wide flood <b>90DEG</b> <sup>4</sup> - 90° Open flood <b>NA</b> - Not applicable  <sup>4</sup> Not available with Asymmetric.  <b>50DEG</b> - 50° Wide flood <b>NA</b> - Not applicable	<b>10DEG</b> - 10° Very narrow spot <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> <sup>5</sup> - 80° Very wide flood <b>90DEG</b> <sup>5</sup> - 90° Open flood <b>NA</b> - Not applicable  <sup>5</sup> Not available with Asymmetric.  <b>50DEG</b> - 50° Wide flood <b>NA</b> - Not applicable	<b>2STP</b> <sup>6</sup> - 2 Step MacAdam Ellipse <b>3STP</b> - 3 Step MacAdam Ellipse  <sup>6</sup> Not available with full spectrum static white.  <b>3STP</b> - 3 Step MacAdam Ellipse	<b>80CRI</b> <sup>7</sup> - 80+ CRI <b>90CRI</b> <sup>7</sup> - 90+ CRI <b>95CRI</b> <sup>27</sup> - 95+ CRI  <sup>7</sup> Not available with full spectrum static white. <sup>27</sup> Not available with 2400K and 5000K.  <b>90CRI</b> - 90 CRI	<b>24K</b> - 2400K <b>27K</b> - 2700K <b>30K</b> - 3000K <b>35K</b> - 3500K <b>40K</b> - 4000K <b>50K</b> - 5000K  <b>SOLA</b> <sup>8</sup> - Dim-to-warm single channel control <b>DUO</b> <sup>9</sup> - Tunable white 2-channel control  <sup>8</sup> 3500K to 2200K <sup>9</sup> 6500K to 2700K	<b>At light element</b> <sup>10,11</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> <sup>12</sup> - Hex louver <b>NA</b> - None  <sup>10</sup> Separate codes with a "+" if more than one is specified, e.g. LSDL+LS. <sup>11</sup> LSDL and LFDL cannot be combined. LS and HEX cannot be combined. <sup>12</sup> Not available with 80°/90° beam options.
* 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	DIRECT WATTAGE <sup>14</sup> Specify NA for indirect		INDIRECT WATTAGE <sup>16</sup> Specify NA for Direct		DIMMING <sup>18</sup>		
<b>120V</b> - 120V <b>277V</b> - 277V <b>UNV</b> - 120V-277V <b>347V</b> <sup>13</sup> - 347V  <sup>13</sup> Available with RDI driver only. Please consult factory.	<b>WALL</b> <b>10W</b> - 10 W output, up to 1132 lm <b>14W</b> - 14 W output, up to 1545 lm <b>20W</b> <sup>15</sup> - 20 W output, up to 2135 lm  <b>NA</b> - Not applicable  <sup>14</sup> Lumen outputs are reduced with full spectrum, consult factory. <sup>15</sup> Not available for a Direct/Indirect fixture.  <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>NA</b> - Not applicable	<b>WALL ASY.</b> <b>10W</b> - 10 W output, up to 1029 lm <b>14W</b> - 14 W output, up to 1406 lm <b>20W</b> <sup>15</sup> - 20 W output, up to 1942 lm  <b>NA</b> - Not applicable  <b>SOLA</b> <b>12W</b> - 12 W output, up to 625 lm <b>DUO</b> <b>11W</b> - 11 W output, up to 475 lm  <b>NA</b> - Not applicable	<b>WALL</b> <b>10W</b> - 10 W output, up to 1132 lm <b>14W</b> - 14 W output, up to 1545 lm <b>20W</b> <sup>17</sup> - 20 W output, up to 2135 lm  <b>NA</b> - Not applicable  <sup>16</sup> Lumen outputs are reduced with full spectrum, consult factory. <sup>17</sup> Not available for a Direct/Indirect fixture.  <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>NA</b> - Not applicable	<b>WALL ASY.</b> <b>10W</b> - 10 W output, up to 1029 lm <b>14W</b> - 14 W output, up to 1406 lm <b>20W</b> <sup>17</sup> - 20 W output, up to 1942 lm  <b>NA</b> - Not applicable  <b>SOLA</b> <b>12W</b> - 12 W output, up to 625 lm <b>DUO</b> <b>11W</b> - 11 W output, up to 475 lm  <b>NA</b> - Not applicable	<b>INTEGRAL</b> <b>D1</b> - 1% 0-10V <b>ELV</b> <sup>19</sup> - ELV 120V <b>TRI</b> <sup>19</sup> - TRIAC 120V  <sup>18</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>19</sup> Available with 120V only.  <b>SOLA</b> <b>SD1</b> - Single 0-10V input <b>SELV</b> <sup>19</sup> - ELV 120V <b>STRI</b> <sup>19</sup> - TRIAC 120V	<b>REMOTE</b> <sup>20</sup> <b>RD1</b> - 1% 0-10V <b>RELV</b> <sup>21</sup> - ELV 120V <b>RTRI</b> <sup>21</sup> - TRIAC 120V <b>RLDE1</b> <sup>22</sup> - Lutron Hi-lume 1% Eco  <b>RDA</b> <sup>22</sup> - DALI <b>RELD1</b> - eldoLED 1% ECOdrive 0-10V <b>RELD0</b> - eldoLED 0.1% SOLOdrive 0-10V <b>+EB</b> <sup>23</sup> - Emergency battery  <sup>20</sup> A remote driver box is provided, see page 5 for details. <sup>21</sup> Available with 120V only. <sup>22</sup> On-site commissioning is required. <sup>23</sup> For emergency battery, code will be like the following example: RDI+EB.  <b>SOLA</b> <b>RSO1</b> - Single 0-10V input <b>RSELV</b> <sup>21</sup> - ELV 120V <b>RSTRI</b> <sup>21</sup> - TRIAC 120V	<b>DUO</b> <b>RDIMX</b> <sup>22</sup> - DMX <b>RDDA</b> <sup>22</sup> - DALI DT6 <b>RDDA8</b> <sup>22</sup> - DALI DT8 <b>RDD1</b> - Dual 0-10V input for CCT/intensity <b>RLED2</b> <sup>22</sup> - Lutron DALI-2 digital
ELECTRICAL	MOUNTING TYPE		MOUNTING FINISH <sup>25</sup>		OPTION <sup>26</sup>		
					NA		
<b>1C</b> - 1 circuit <b>2C</b> <sup>24</sup> - 2 circuits  <sup>24</sup> Available with Direct/Indirect and remote driver only.	<b>FLS</b> - Flat square canopy, 4" octagonal junction box <b>DM</b> - Direct mount  <sup>25</sup> Direct mount finish matches cylinder finish.		<b>FTMW</b> - Matte white <b>FTMB</b> - Matte black <b>FCHP</b> - Champagne <b>FDBZ</b> - Dark bronze <b>CF#</b> - Custom finish, specify RAL#		<b>NA</b> - None  <sup>26</sup> To specify a JAB compliant fixture, see page 3.		



# AERA 3" CYLINDER

WALL, WALL ASYMMETRIC

DIRECT/INDIRECT, DIRECT, INDIRECT

Title 24 JA8



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

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



## Order Guide

LUMINAIRE ID	DISTRIBUTION	CYLINDER HEIGHT <sup>1</sup>	CYLINDER FINISH	BAFFLE STYLE	BAFFLE FINISH
<b>AE3CYW</b> - Aera 3" Cylinder Wall <b>AE3CYWASY</b> - Aera 3" Cylinder Wall Asymmetric	<b>D</b> - Direct <b>I</b> - Indirect	<b>6IN</b> <sup>2</sup> - 6" <b>8IN</b> - 8" <b>12IN</b> - 12" <b>14IN</b> - 14"  <sup>1</sup> For minimum heights, see dimensions on page 4. <sup>2</sup> Available with remote driver only when specified with Wall Asymmetric.	<b>FTMW</b> - Matte white <b>FTMB</b> - Matte black <b>FCHP</b> - Champagne <b>FDBZ</b> - Dark bronze <b>CF#</b> - Custom finish, specify RAL#	<b>BVL</b> - Bevel <b>PHL</b> - Pinhole <b>BVLD</b> - Decorative bevel	<b>FTMW</b> - Matte white <b>FTMB</b> - Matte black <b>FSPC</b> - Satin silver <b>FSSPC</b> - Matte silver <b>FCHP</b> - Champagne <b>FDBZ</b> - Dark bronze <b>CF#</b> - Custom finish, specify RAL#

LENS *	LIGHT SOURCE	DIRECT BEAM	INDIRECT BEAM	COLOR QUALITY	CRI	COLOR TEMP.	ACCESSORY *
See page 4 for details		Specify NA for Indirect	Specify NA for Direct		<b>90CRI</b>		See page 4 for details
<b>At baffle</b> 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>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> <sup>3</sup> - 80° Very wide flood <b>90DEG</b> <sup>3</sup> - 90° Open flood <b>NA</b> - Not applicable  <sup>3</sup> Not available with Asymmetric.	<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> <sup>4</sup> - 80° Very wide flood <b>90DEG</b> <sup>4</sup> - 90° Open flood <b>NA</b> - Not applicable  <sup>4</sup> Not available with Asymmetric.	<b>2STP</b> - 2 Step MacAdam Ellipse <b>3STP</b> - 3 Step MacAdam Ellipse	<b>90CRI</b> - 90 CRI	<b>27K</b> - 2700K <b>30K</b> - 3000K <b>35K</b> - 3500K <b>40K</b> - 4000K  <b>SOLA</b> <sup>5</sup> - Dim-to-warm single channel control  <sup>5</sup> 3500K to 2200K	<b>At light element</b>  <b>LSDL</b> - Soft diffused lens, Solite <b>LFDL</b> - Frosted diffused lens <b>NA</b> - None
	<b>SOLA</b> - Dim-to-warm single channel control	<b>50DEG</b> - 50° Wide flood <b>NA</b> - Not applicable	<b>50DEG</b> - 50° Wide flood <b>NA</b> - Not applicable	<b>3STP</b> - 3 Step MacAdam Ellipse			

\* LSDL or LFDL at light element cannot be combined with SDL, FDL, or CL at baffle. For SOLA, one of the following lenses must be specified: SDL, FDL, LSDL, or LFDL.

VOLTAGE	DIRECT WATTAGE		INDIRECT WATTAGE		DIMMING	
	Specify NA for Indirect		Specify NA for Direct			
<b>120V</b> - 120V <b>277V</b> - 277V <b>UNV</b> - 120V-277V	<b>WALL</b>	<b>WALL ASY.</b>	<b>WALL</b>	<b>WALL ASY.</b>	<b>INTEGRAL</b>	<b>REMOTE</b> <sup>7</sup>
	<b>10W</b> - 10 W output, up to 1132 lm <b>14W</b> - 14 W output, up to 1545 lm	<b>10W</b> - 10 W output, up to 1029 lm <b>14W</b> - 14 W output, up to 1406 lm	<b>10W</b> - 10 W output, up to 1132 lm <b>14W</b> - 14 W output, up to 1545 lm	<b>10W</b> - 10 W output, up to 1029 lm <b>14W</b> - 14 W output, up to 1406 lm	<b>D1</b> - 1% 0-10V <b>ELV</b> <sup>6</sup> - ELV 120V <b>TRI</b> <sup>6</sup> - TRIAC 120V  <sup>6</sup> Available with 120V only.	<b>RD1</b> - 1% 0-10V <b>RELV</b> <sup>8</sup> - ELV 120V <b>RTRI</b> <sup>8</sup> - TRIAC 120V <b>RLDE1</b> <sup>9</sup> - Lutron Hi-Lume 1% Eco  <sup>7</sup> A remote driver box is provided, see page 5 for details. <sup>8</sup> Available with 120V only. <sup>9</sup> On-site commissioning is required.
	<b>NA</b> - Not applicable		<b>NA</b> - Not applicable			
	<b>12W</b> - 12 W output, up to 725 lm	<b>12W</b> - 12 W output, up to 625 lm	<b>12W</b> - 12 W output, up to 725 lm	<b>12W</b> - 12 W output, up to 625 lm	<b>SD1</b> - Single 0-10V input <b>SELV</b> <sup>6</sup> - ELV 120V <b>STRI</b> <sup>6</sup> - TRIAC 120V	<b>RSD1</b> - Single 0-10V input <b>RSELV</b> <sup>8</sup> - ELV 120V <b>RSTRI</b> <sup>8</sup> - TRIAC 120V
	<b>NA</b> - Not applicable		<b>NA</b> - Not applicable			

ELECTRICAL	MOUNTING TYPE	MOUNTING FINISH <sup>10</sup>	OPTION
<b>1C</b>			<b>JA8</b>
<b>1C</b> - 1 circuit	<b>FLS</b> - Flat square canopy, 4" octagonal junction box <b>DM</b> - Direct mount	<b>FTMW</b> - Matte white <b>FTMB</b> - Matte black <b>FCHP</b> - Champagne <b>FDBZ</b> - Dark bronze <b>CF#</b> - Custom finish, specify RAL#  <sup>10</sup> Direct mount finish matches cylinder finish.	<b>JA8</b> - JA8 compliant

# AERA 3" CYLINDER

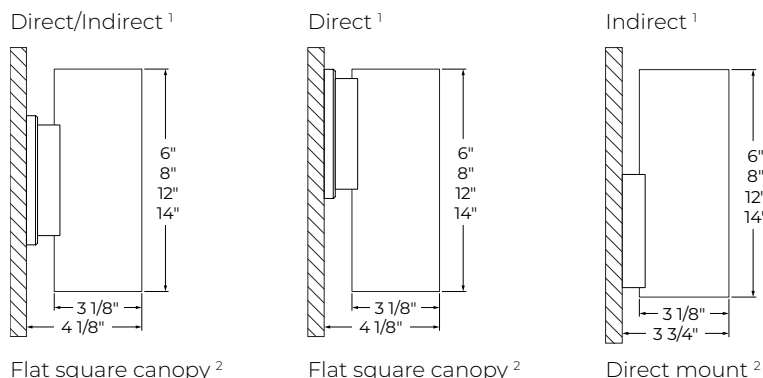
WALL, WALL ASYMMETRIC

DIRECT/INDIRECT, DIRECT, INDIRECT



## Dimensions

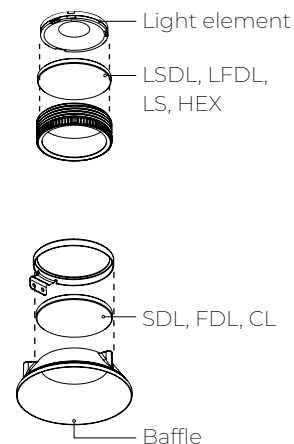
### CYLINDER



<sup>1</sup>Certain restrictions apply. See page 2 for the height options available with integral and remote.

<sup>2</sup>Flat square canopy and direct mount options are available with all Direct/Indirect, Direct and Indirect.

## Lens and Accessories

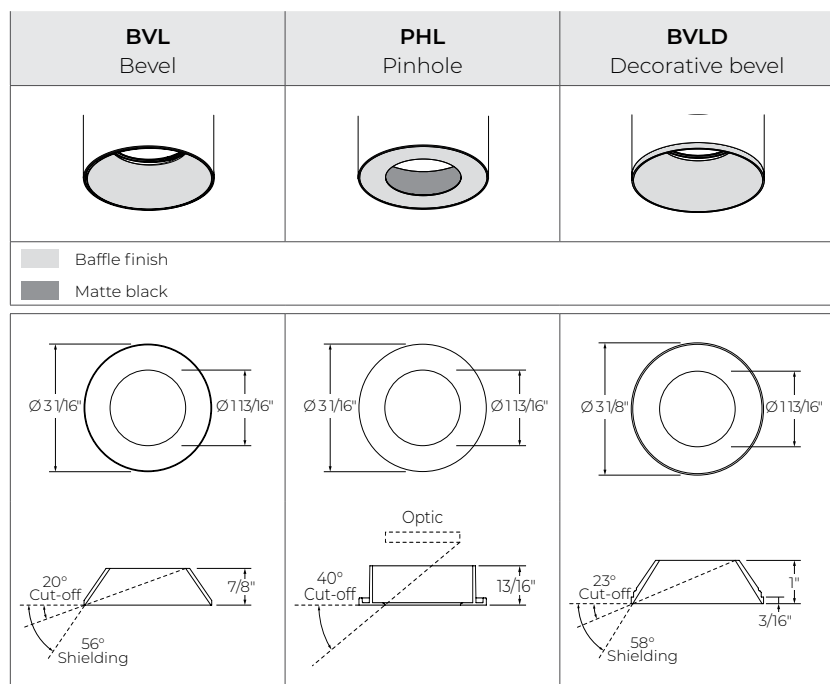


## Minimum heights - Cylinder

Size	Distribution	Direct		Asymmetric	
		Integral driver	Remote driver	Integral driver	Remote driver
Ø 3"	Direct/Indirect	12"	6"	14"	8"
	Direct or Indirect	6"	6"	8"	6"

<sup>1</sup>Consult factory for maximum heights.

## BAFFLE

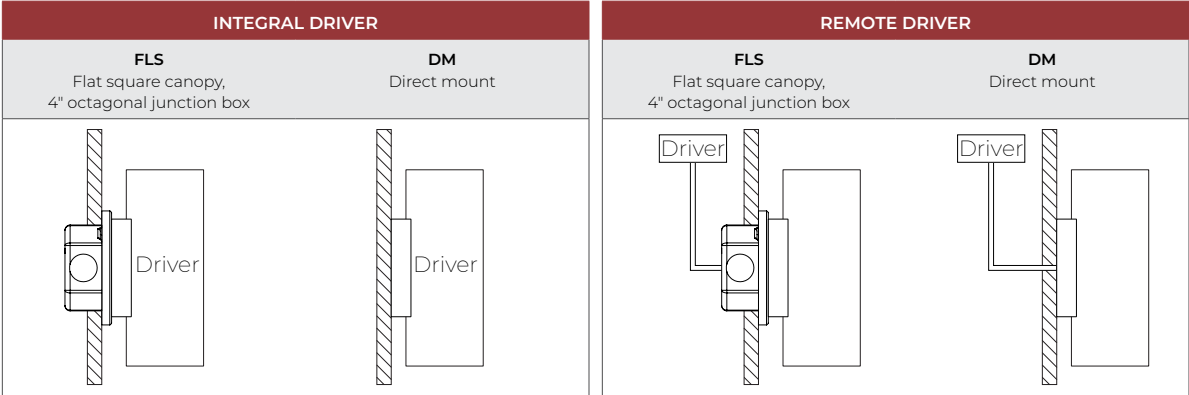


# AERA 3" CYLINDER

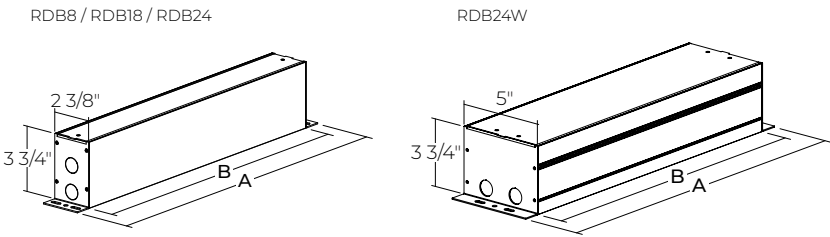
## WALL, WALL ASYMMETRIC

### DIRECT/INDIRECT, DIRECT, INDIRECT

### Mounting



### REMOTE DRIVER BOX



	RDB8	RDB18	RDB24	RDB24W
A	10"	20"	26"	26"
B	8"	18"	24"	24"
DRIVER	<div> RD1 - 1% 0-10V  RELV - ELV 120V  RTRI - TRIAC 120V </div> <div> SOLA  RSD1 - Single 0-10V input  RSELV - ELV 120V  RSTRI - TRIAC 120V </div>	<div> RLDE1 - Lutron Hi-lume 1% Eco  RDA - DALI  RELD1 - eldoLED 1% ECOdrive 0-10V  RELD0 - eldoLED 0.1% SOLOdrive 0-10V </div>	<div> Emergency battery (+EB) with the following driver options.  RD1+EB - 1% 0-10V  RELV+EB - ELV 120V  RTRI+EB - TRIAC 120V </div> <div> DUO  RDMX - DMX  RDDA - DALI DT6  RDDA8 - DALI DT8  RDD1 - Dual 0-10V input for CCT/intensity  RLD2 - Lutron DALI-2 digital </div>	<div> 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 </div>

# AERA 3" CYLINDER

WALL, WALL ASYMMETRIC

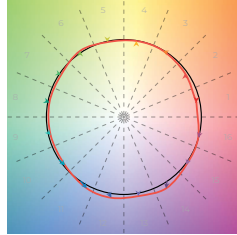
DIRECT/INDIRECT, DIRECT, INDIRECT



## Color Quality

### COLOR QUALITY - 3500K

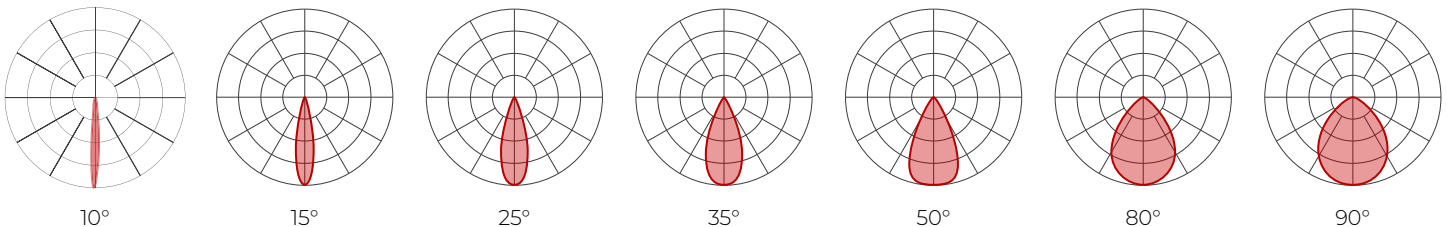
TM-30 R <sub>r</sub>	90
TM-30 R <sub>g</sub>	100
CRI	90
R9	> 50



## Photometrics

### WALL

Values calculated based on 3500K, bevel baffle, and SDL lens option.



### Delivered lumens

CRI	90 CRI							95 CRI							80 CRI						
BEAM	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°
10 W	888	987	1053	1058	937	843	843	684	760	811	815	721	649	649	950	1056	1127	1132	1003	902	902
14 W	1212	1347	1438	1444	1280	1152	1152	933	1037	1107	1112	986	887	887	1297	1441	1539	1545	1370	1233	1233
20 W	1675	1861	1986	1995	1768	1591	1591	1290	1433	1529	1536	1361	1225	1225	1792	1991	2125	2135	1892	1703	1703

### Efficacy

CRI	90 CRI							95 CRI							80 CRI						
BEAM	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°	10°	15°	25°	35°	50°	80°	90°
10 W	89	99	105	106	94	84	84	68	76	81	81	72	65	65	95	106	113	113	100	90	90
14 W	87	96	103	103	91	82	82	67	74	79	79	70	63	63	93	103	110	110	98	88	88
20 W	84	93	99	100	88	80	80	64	72	76	77	68	61	61	90	100	106	107	95	85	85

### MULTIPLIERS

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

CCT		BAFFLE STYLE AND COLOR			LENS * (At baffle)		ACCESSORIES * (At light element)	
2400K	0.87	Bevel	White	1	SDL - Soft diffused lens, Solite	1	LSDL - Soft diffused lens, Solite	1
2700K	0.94		Black	1				
3000K	0.98	Pinhole	White	0.92	FDL - Frosted lens	0.8	LFDL - Frosted lens	0.8
3500K	1		Black	0.92	CL - Clear lens	1.1	LS - Linear spread	0.84
4000K	1.05	Decorative bevel	White	1	NOL - No lens	1.1	HEX - Hex louver	0.86
5000K	1.05		Black	1	* When more than one lens or accessory is specified, multiply together the value of each lens and/or accessory.			

### DIRECT/INDIRECT - EFFICACY CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\left( \frac{\text{DIRECT DELIVERED LM} + \text{INDIRECT DELIVERED LM}}{\text{DIRECT WATTAGE} + \text{INDIRECT WATTAGE}} \right) = \text{EFFICACY}$$

For SOLA and DUO, please consult factory.

# AERA 3" CYLINDER

WALL, WALL ASYMMETRIC

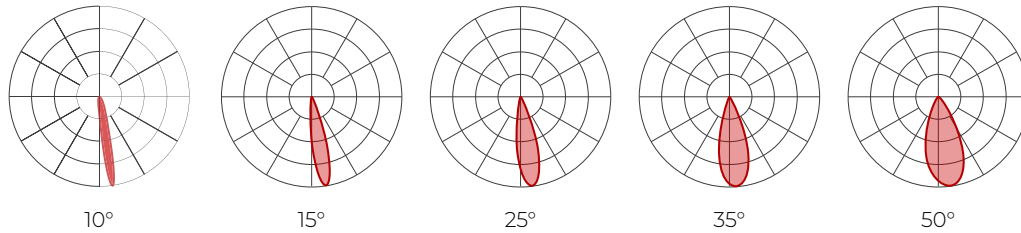
DIRECT/INDIRECT, DIRECT, INDIRECT



## Photometrics

### WALL ASYMMETRIC

Values calculated based on 3500K, bevel baffle, and SDL lens option.



### Delivered lumens

CRI	90 CRI					95 CRI					80 CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
10 W	770	855	962	952	876	592	658	741	733	675	823	914	1029	1018	937
14 W	1050	1167	1314	1300	1197	809	899	1012	1001	921	1124	1249	1406	1391	1280
20 W	1451	1612	1815	1795	1653	1117	1241	1397	1382	1272	1553	1725	1942	1921	1768

### Efficacy

CRI	90 CRI					95 CRI					80 CRI				
BEAM	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°	10°	15°	25°	35°	50°
10 W	77	85	96	95	88	59	66	74	73	67	82	91	103	102	94
14 W	75	83	94	93	85	58	64	72	71	66	80	89	100	99	91
20 W	73	81	91	90	83	56	62	70	69	64	78	86	97	96	88

### MULTIPLIERS

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

CCT		BAFFLE STYLE AND COLOR			LENS * (At baffle)		ACCESSORIES * (At light element)	
2400K	0.87	Bevel	White	1	SDL - Soft diffused lens, Solite	1	LSDL - Soft diffused lens, Solite	1
2700K	0.94		Black	1	FDL - Frosted lens	0.8	LFDL - Frosted lens	0.8
3000K	0.98	Pinhole	White	0.92	CL - Clear lens	1.1	LS - Linear spread	0.84
3500K	1		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 + LS = 1.1 x 1 x 0.84 = 0.924			
5000K	1.05		Black	1				

For SOLA and DUO, please consult factory.

### DIRECT/INDIRECT - EFFICACY CALCULATION

For Direct/Indirect performance values, follow the formula.

$$\frac{\left( \frac{\text{DIRECT DELIVERED LM}}{\text{DIRECT WATTAGE}} + \frac{\text{INDIRECT DELIVERED LM}}{\text{INDIRECT WATTAGE}} \right)}{\left( \frac{\text{DIRECT WATTAGE}}{\text{DIRECT WATTAGE}} + \frac{\text{INDIRECT WATTAGE}}{\text{INDIRECT WATTAGE}} \right)} = \text{EFFICACY}$$

# AERA 3" CYLINDER

WALL, WALL ASYMMETRIC

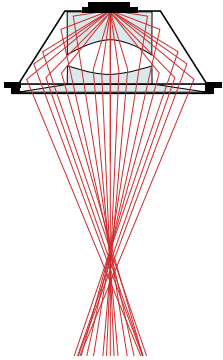
DIRECT/INDIRECT, DIRECT, INDIRECT



## 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 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K 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 static white

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:** Extruded aluminum

**Canopy:** Flat and direct

**Arm:** Machined aluminum

**Finish:** Matte white, matte black, champagne, and dark bronze. Custom colors also available (provide RAL #). Satin silver and matte silver finishes are also available for Baffle.

**Heat sink:** Die-cast aluminum

**Baffle:** Die-cast aluminum

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



# AERA 3" CYLINDER

WALL, WALL ASYMMETRIC  
DIRECT/INDIRECT, DIRECT, INDIRECT



WEIGHT

Direct/Indirect	Direct or Indirect
6": 1.8 lbs - 0.8 kg	6": 1.6 lbs - 0.7 kg
12": 3 lbs - 1.4 kg	8": 2 lbs - 0.9 kg
	12": 2.4 lbs - 1.1 kg

LENS AND ACCESSORIES



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.

**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.

