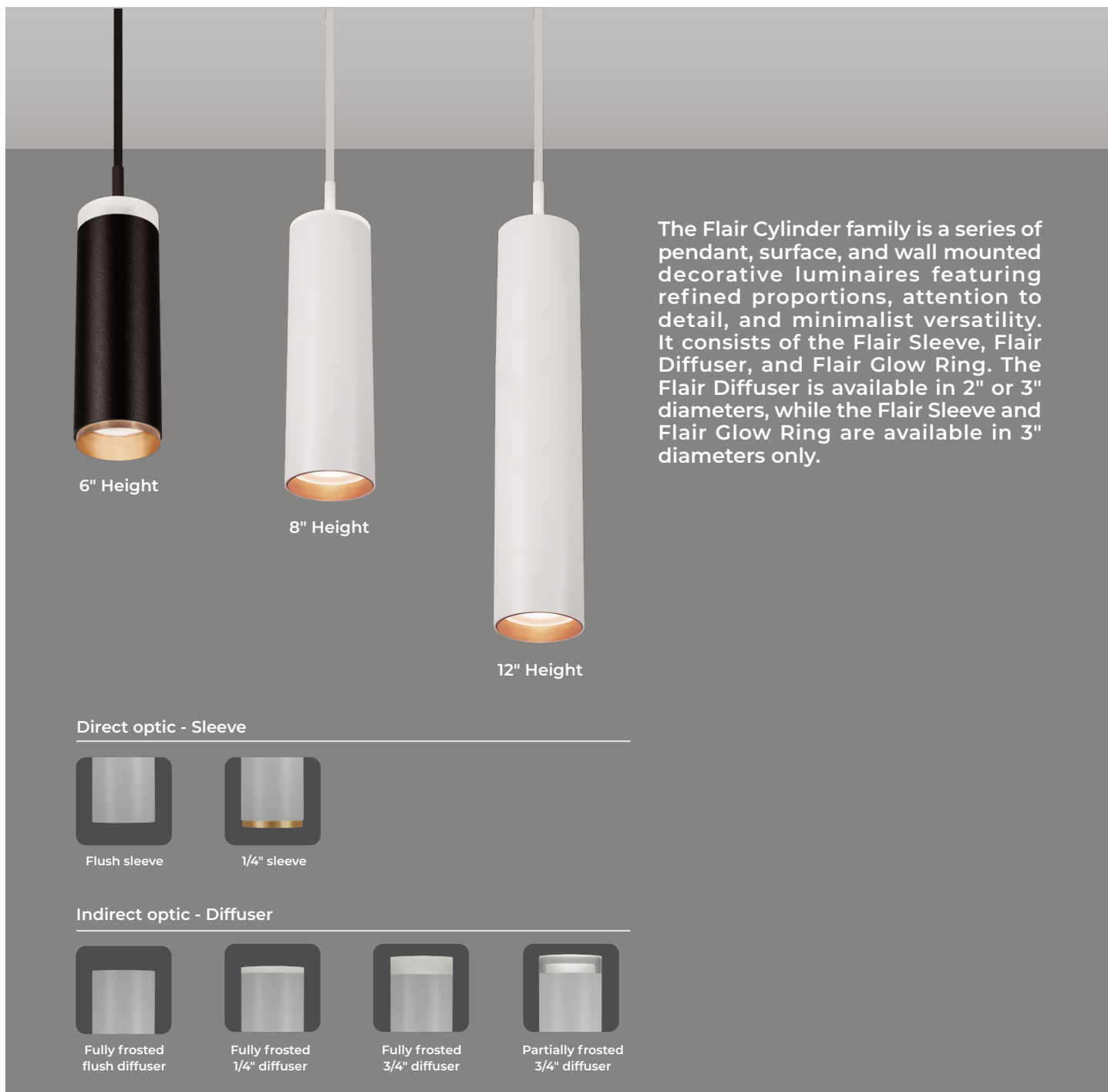


# FLAIR 3" SLEEVE

CYLINDER PENDANT  
DIRECT/INDIRECT, DIRECT



6" Height

8" Height

12" Height

### Direct optic - Sleeve



Flush sleeve



1/4" sleeve

### Indirect optic - Diffuser



Fully frosted flush diffuser



Fully frosted 1/4" diffuser



Fully frosted 3/4" diffuser



Partially frosted 3/4" diffuser

### Flair Cylinder Family (Refer to other spec sheets)



2" / 3" Diffuser

Pendant/Surface/Wall



3" Glow ring

Pendant/Surface/Wall



3" Sleeve

Pendant/Surface/Wall

# FLAIR 3" SLEEVE

CYLINDER PENDANT  
DIRECT/INDIRECT, DIRECT



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

## Order Guide

LUMINAIRE ID	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	DIRECT OPTIC	SLEEVE FINISH	INDIRECT OPTIC Specify NA for Direct
<b>FL3SLCYP</b>						
<b>FL3SLCYP</b> - Flair 3" Sleeve Cylinder Pendant	<b>D1</b> <sup>1</sup> - Direct/Indirect <b>D</b> - Direct	<b>6IN</b> <sup>2</sup> - 6" <b>8IN</b> - 8" <b>12IN</b> - 12" <b>CH#IN</b> <sup>3</sup> - Custom height	<b>FTMW</b> - Textured matte white <b>FTMB</b> - Textured matte black <b>FCHP</b> - Champagne <b>CF#</b> - Custom finish, specify RAL#	<b>SLFH</b> - Flush sleeve <b>SLI4</b> - 1/4" sleeve	<b>FTMW</b> - Textured matte white <b>FTMB</b> - Textured matte black <b>FCP</b> - Copper <b>FBS</b> - Brass	<b>FFFH</b> - Fully frosted flush diffuser <b>FF14</b> - Fully frosted 1/4" diffuser <b>FF34</b> - Fully frosted 3/4" diffuser <b>PF34</b> - Partially frosted 3/4" diffuser <b>NA</b> - Not applicable
	<sup>1</sup> Only available with DR canopy option when specified with integral drivers.	<sup>2</sup> Not available with DMNC/DMRM canopy options when specified with integral drivers. <sup>3</sup> Specify height (#) in 1" increments only. Up to maximum 36". For minimum heights, see page 4.				

LIGHT SOURCE	DIRECT BEAM	COLOR QUALITY Specify NA for 80°	CRI	COLOR TEMP.	
<b>SW</b> - Static white <b>FS</b> - Full spectrum	<b>Angle</b> <b>15DEG</b> - 15° Narrow spot <b>25DEG</b> - 25° Spot <b>35DEG</b> - 35° Narrow flood <b>50DEG</b> - 50° Wide flood	<b>Lambertian</b> <b>80DEG</b> - 80° Lambertian	<b>2STP</b> <sup>4</sup> - 2 Step MacAdam Ellipse <b>3STP</b> - 3 Step MacAdam Ellipse <b>NA</b> - Not applicable	<b>90CRI</b> <sup>5</sup> - 90 CRI <b>95CRI</b> - 95 CRI <b>80CRI</b> <sup>5</sup> - 80 CRI	<b>27K</b> - 2700K <b>30K</b> - 3000K <b>35K</b> - 3500K <b>40K</b> - 4000K
<b>SOLA</b> - Dim-to-warm single channel control 35K to 22K <b>DUO</b> - Tunable white 2-channel control 65K to 27K	<b>50DEG</b> - 50° Wide flood	<b>80DEG</b> - 80° Lambertian	<b>3STP</b> - 3 Step MacAdam Ellipse <b>NA</b> - Not applicable	<b>90CRI</b> - 90 CRI	<b>SOLA</b> - Dim-to-warm single channel control 35K to 22K <b>DUO</b> - Tunable white 2-channel control 65K to 27K
			<sup>4</sup> Not available with full spectrum.	<sup>5</sup> Not available with full spectrum.	

ACCESSORY <sup>6,7</sup> Specify NA for 80°	VOLTAGE	DIRECT WATTAGE <sup>9</sup>	INDIRECT WATTAGE <sup>11</sup> Specify NA for Direct	DIMMING <sup>12</sup>
<b>At light element</b> <b>LSDL</b> - Soft diffused lens, Solite <b>LFDL</b> - Frosted diffused lens <b>LCL</b> - Clear lens <b>NA</b> - None	<b>120V</b> - 120V <b>277V</b> - 277V <b>UNV</b> - 120V-277V <b>347V</b> <sup>8</sup> - 347V	<b>10W</b> - 10 W output, up to 1151 lm <b>14W</b> - 14 W output, up to 1562 lm <b>20W</b> <sup>10</sup> - 20 W output, up to 2145 lm	<b>10W</b> - 10 W output, up to 445 lm <b>14W</b> - 14 W output, up to 604 lm <b>NA</b> - Not applicable	<b>INTEGRAL</b> <b>DI</b> - 1% 0-10V <b>ELV</b> <sup>13</sup> - ELV 120V <b>TRI</b> <sup>13</sup> - TRIAC 120V
<sup>6</sup> For SOLA/DUO, one of the following lenses must be specified: LSDL or LFDL. <sup>7</sup> Not available with 80° Lambertian beam option.	<sup>8</sup> Available with RD1 driver only. Please consult factory.	<sup>9</sup> Lumen outputs are reduced with full spectrum, consult factory. <sup>10</sup> Not available for a DI fixture.	<sup>11</sup> Lumen outputs are reduced with full spectrum, consult factory.	<b>REMOTE</b> <sup>14</sup> <b>RD1</b> - 1% 0-10V <b>RELV</b> <sup>15</sup> - ELV 120V <b>RTRI</b> <sup>15</sup> - TRIAC 120V <b>RLDE1</b> <sup>16</sup> - Lutron HILume 1% Eco
		<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>SOLA</b> <b>12W</b> - 12 W output, up to 431 lm <b>DUO</b> <b>11W</b> - 11 W output, up to 285 lm <b>NA</b> - Not applicable	<b>SDI</b> - Single 0-10V input <b>SELV</b> <sup>15</sup> - ELV 120V <b>STR1</b> <sup>15</sup> - TRIAC 120V
				<b>RD16</b> - DALI <b>RELD1</b> - eldoLED 1% ECOdrive 0-10V <b>RELD0</b> - eldoLED 0.1% SOLOdrive 0-10V <b>+EB</b> <sup>17</sup> - Emergency battery
				<sup>12</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>13</sup> Available with 120V only.
				<sup>14</sup> A remote driver box is provided, see page 5 for details. <sup>15</sup> Available with 120V only. <sup>16</sup> On-site commissioning is required. <sup>17</sup> For emergency battery, code will be like the following example: RD1+EB.
				<b>DUO</b> <b>RDMX</b> <sup>16</sup> - DMX <b>RDDA</b> <sup>16</sup> - DALI DT6 <b>RDDA8</b> <sup>16</sup> - DALI DT8 <b>RDD1</b> - Dual 0-10V input for CCT/intensity <b>RLD2</b> <sup>16</sup> - Lutron DALI-2 digital

ELECTRICAL	CANOPY TYPE <sup>19</sup>	CANOPY FINISH	SUSPENSION
<b>1C</b> - 1 circuit <b>2C</b> <sup>18</sup> - 2 circuits	<b>FLR</b> <sup>20,21</sup> - Flat round canopy, 4" octagonal junction box <b>CDR</b> <sup>20,21</sup> - Conduit feed, round canopy <b>DMNC</b> <sup>20,22</sup> - Direct mount, new construction <b>DMRM</b> <sup>20,22,23</sup> - Direct mount, remodel <b>DR</b> <sup>24</sup> - Deep round canopy	<b>FTMW</b> - Textured matte white <b>FTMB</b> - Textured matte black <b>FCHP</b> - Champagne <b>CF#</b> - Custom finish, specify RAL#	<b>POWER CORD</b> <sup>25</sup> <b>BPC##IN</b> - Black PVC <b>WPC##IN</b> - White PVC
<sup>18</sup> Available with Direct/Indirect only.	<sup>19</sup> See page 4 for details. <sup>20</sup> Direct/Indirect requires a remote driver. <sup>21</sup> 6" long cylinders require a j-box for integral drivers. See page 4 for details. <sup>22</sup> 6" long cylinders require a remote driver. <sup>23</sup> Single wiring entry only. No daisy chain connections allowed. <sup>24</sup> Can accommodate up to 2 drivers.		<sup>25</sup> Min 18" - max 72", specify length (##) in inches.
			<b>STEM</b> <sup>26</sup> <b>BKS##IN</b> - Textured black stem <b>WHS##IN</b> - Textured white stem <b>BKSS##IN</b> <sup>27</sup> - Textured black swivel stem <b>WHSS##IN</b> <sup>27</sup> - Textured white swivel stem <b>CF#S##IN</b> <sup>28</sup> - Custom finish stem <b>CF#SS##IN</b> <sup>27,28</sup> - Custom finish swivel stem
			<sup>26</sup> Min 10" - max 72", specify length (##) in inches. <sup>27</sup> Not available with DMNC/DMRM/DR canopy options, or for 6" long cylinders when specified with FLR/CDR and integral driver. <sup>28</sup> Specify RAL#.



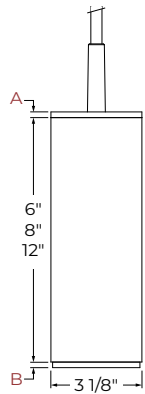
# FLAIR 3" SLEEVE

CYLINDER PENDANT  
DIRECT/INDIRECT, DIRECT



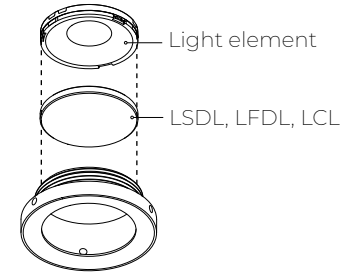
## Dimensions

### CYLINDER



INDIRECT DIFFUSER		A
Fully frosted flush		NA
Fully frosted 1/4"		1/4"
Fully frosted 3/4"		3/4"
Partially frosted 3/4"		3/4"
DIRECT SLEEVE		B
Flush sleeve		NA
1/4" sleeve		1/4"

## Accessories



### DIRECT OPTIC - SLEEVE

Angle - 15°, 25°, 35° and 50°

Lambertian - 80°

SLFH Flush sleeve	SL14 1/4" sleeve	SLFH Flush sleeve	SL14 1/4" sleeve
Sleeve finish		Sleeve finish	

### INDIRECT OPTIC - DIFFUSER

FFFH Fully frosted flush	FF14 Fully frosted 1/4"	FF34 Fully frosted 3/4"	PF34 Partially frosted 3/4"
Frosted			

# FLAIR 3" SLEEVE

CYLINDER PENDANT  
DIRECT/INDIRECT, DIRECT



## 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
Canopy type					
Distribution	Direct			Direct/Indirect Direct	
Canopy size	Ø 4 1/2" Height 3/8"	Ø 5 1/2" Height 1 15/16"	Ø 3 1/8" Height 2"		Ø 5 5/8" Height 1 3/8"
Suspension	Power cord, Stem, Swivel stem <sup>1</sup> <sup>1</sup> 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 or cylinder

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	DR Deep round canopy
Canopy type					
Distribution	Direct/Indirect Direct				
Canopy size	Ø 4 1/2" Height 3/8"	Ø 5 1/2" Height 1 15/16"	Ø 3 1/8" Height 2"		Ø 5 5/8" Height 1 3/8"
Suspension	Power cord, Stem, Swivel stem		Power cord, Stem		
Min. height	6"				
				Single wiring entry only. No daisy chain connections allowed.	

# FLAIR 3" SLEEVE

CYLINDER PENDANT  
DIRECT/INDIRECT, DIRECT

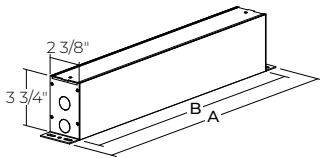


## SUSPENSION

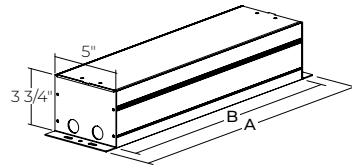
POWER CORD	STEM	
PVC	Stem	Swivel stem <sup>1,2</sup>
Power Cord Lengths (*)	Stem Lengths (*)	
Min 18" Max 72"	Min 10" Max 72"	Min 10" Max 72" Max 45° tilt
	<p><sup>1</sup> Not available with DMNC/DMRM/DR canopy options, or for 6" long cylinders when specified with FLR/CDR and integral driver.</p> <p><sup>2</sup> The total stem length (*) includes the 1" swivel base located inside the canopy.</p>	

## REMOTE DRIVER BOX

RDB8 / RDB18 / RDB24



RDB24W



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

# FLAIR 3" SLEEVE

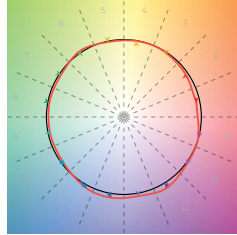
CYLINDER PENDANT  
DIRECT/INDIRECT, DIRECT



## Color Quality

### COLOR QUALITY - 3500K

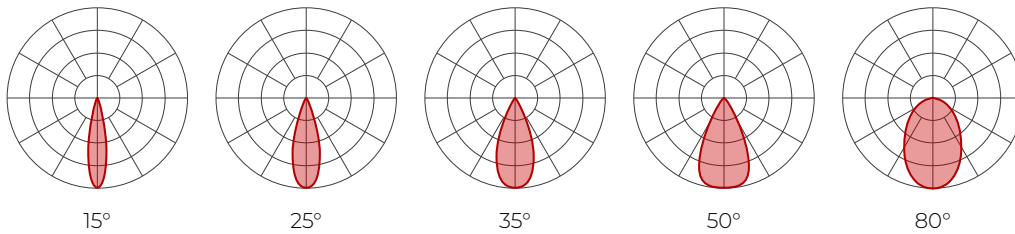
TM-30 R <sub>r</sub>	90
TM-30 R <sub>g</sub>	100
CRI	90
R9	> 50



## Photometrics

Values calculated based on 3500K, white sleeve, and LSDL lens option.

### DIRECT OPTIC - SLEEVE



■ Flush sleeve

Delivered lumens

■ Angle ■ Lambertian

CRI	90 CRI					95 CRI					80 CRI				
	BEAM	15°	25°	35°	50°	80°	15°	25°	35°	50°	80°	15°	25°	35°	50°
10 W	983	1044	1039	932	896	756	803	799	717	689	1051	1116	1110	997	957
14 W	1335	1418	1410	1266	1216	1027	1090	1084	973	935	1427	1516	1507	1353	1300
20 W	1833	1947	1936	1738	1669	1410	1497	1489	1337	1284	1960	2081	2070	1858	1785

## Efficacy

CRI	90 CRI					95 CRI					80 CRI				
	BEAM	15°	25°	35°	50°	80°	15°	25°	35°	50°	80°	15°	25°	35°	50°
10 W	98	104	104	93	90	76	80	80	72	69	105	112	111	100	96
14 W	95	101	101	90	87	73	78	77	70	67	102	108	108	97	93
20 W	92	97	97	87	83	70	75	74	67	64	98	104	103	93	89

# FLAIR 3" SLEEVE

CYLINDER PENDANT  
DIRECT/INDIRECT, DIRECT



■ 1/4" sleeve

Delivered lumens

■ Angle ■ Lambertian

CRI	90 CRI					95 CRI					80 CRI				
	BEAM	15°	25°	35°	50°	80°	15°	25°	35°	50°	80°	15°	25°	35°	50°
10 W	1014	1077	1071	961	924	780	828	823	739	711	1084	1151	1145	1028	988
14 W	1376	1462	1454	1305	1255	1058	1124	1118	1004	965	1471	1562	1554	1395	1341
20 W	1890	2007	1996	1792	1723	1453	1543	1535	1378	1325	2020	2145	2134	1916	1842

Efficacy

CRI	90 CRI					95 CRI					80 CRI				
	BEAM	15°	25°	35°	50°	80°	15°	25°	35°	50°	80°	15°	25°	35°	50°
10 W	101	108	107	96	92	78	83	82	74	71	108	115	114	103	99
14 W	98	104	104	93	90	76	80	80	72	69	105	112	111	100	96
20 W	94	100	100	90	86	73	77	77	69	66	101	107	107	96	92

## MULTIPLIERS

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

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

ACCESSORIES	
Soft diffused lens	1
Frosted diffused lens	0.8
Clear lens	1.1

SLEEVE FINISH	
Texture matted White	1
Texture matted Black	0.99
Copper	0.99
Brass	0.99

For SOLA and DUO, please consult factory.

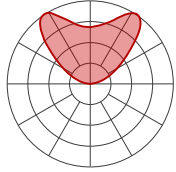
# FLAIR 3" SLEEVE

CYLINDER PENDANT  
DIRECT/INDIRECT, DIRECT



## INDIRECT OPTIC - DIFFUSER

Fully frosted flush



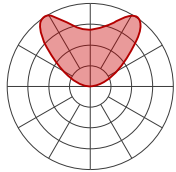
Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
10 W	314	242	336
14 W	427	328	456

Efficacy

CRI	90 CRI	95 CRI	80 CRI
10 W	31	24	34
14 W	31	23	33

Fully frosted 1/4"



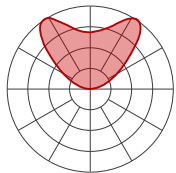
Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
10 W	398	306	425
14 W	541	416	578

Efficacy

CRI	90 CRI	95 CRI	80 CRI
10 W	40	31	43
14 W	39	30	41

Fully frosted 3/4"



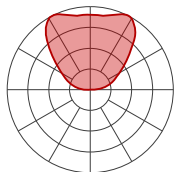
Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
10 W	416	320	445
14 W	565	435	604

Efficacy

CRI	90 CRI	95 CRI	80 CRI
10 W	42	32	45
14 W	40	31	43

Partially frosted 3/4"



Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
10 W	396	304	423
14 W	538	413	574

Efficacy

CRI	90 CRI	95 CRI	80 CRI
10 W	40	30	42
14 W	38	30	41

## MULTIPLIERS

Please follow the multiplier table to ensure correct lumen value.

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

For SOLA and DUO, please consult factory.

## DIRECT/INDIRECT - EFFICACY CALCULATION

For Direct/Indirect performance values, follow the formula.

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

# FLAIR 3" SLEEVE

CYLINDER PENDANT  
DIRECT/INDIRECT, DIRECT



## 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. 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

### BEAM ANGLES



### 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% 2-wire and 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

**Power cord:** Black and white PVC. 18" to 72" standard length.

**Stem:** Ø 1/2" 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 #).

**Sleeve:** Painted steel for textured matte white and black finishes, copper for copper finish, and brass for brass finish.

**Heat sink:** Die-cast aluminum

### WEIGHT

Direct/Indirect	Direct
6": 2.2 lbs - 1 kg	6": 2 lbs - 0.9 kg
8": 2.4 lbs - 1.1 kg	8": 2.2 lbs - 1 kg
12": 2.9 lbs - 1.3 kg	12": 2.4 lbs - 1.1 kg

# FLAIR 3" SLEEVE

## CYLINDER PENDANT

DIRECT/INDIRECT, DIRECT



### ACCESSORIES



Soft diffused  
lens, Solite



Frosted  
diffused lens



Clear lens

### 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.