

# FLAIR 2" DIFFUSER

CYLINDER PENDANT  
DIRECT/INDIRECT, DIRECT



6" Height

8" Height

12" Height

The Flair Cylinder family is a series of pendant, surface, and wall mounted decorative luminaires featuring refined proportions, attention to detail, and minimalist versatility. It consists of the Flair Sleeve, Flair Diffuser, and Flair Glow Ring. The Flair Diffuser is available in 2" or 3" diameters, while the Flair Sleeve and Flair Glow Ring are available in 3" diameters only.

Direct optic - Diffuser

Fully frosted 1/4" diffuser

Fully frosted 3/4" diffuser

Indirect optic - Diffuser

Fully frosted flush diffuser

Fully frosted 1/4" diffuser

Fully 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 2" DIFFUSER

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

## Order Guide

LUMINAIRE ID	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	DIRECT OPTIC	INDIRECT OPTIC Specify NA for Direct
<b>FL2DFCYP</b>					
<b>FL2DFCYP</b> - Flair 2" Diffuser Cylinder Pendant	<b>DI</b> <sup>1</sup> - Direct/Indirect <b>D</b> - Direct  <sup>1</sup> Only available with DR canopy option when specified with integral drivers.	<b>6IN</b> <sup>2</sup> - 6" <b>8IN</b> - 8" <b>12IN</b> - 12" <b>CH#IN</b> <sup>3</sup> - Custom height  <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.	<b>FTMW</b> - Textured matte white <b>FTMB</b> - Textured matte black <b>FCHP</b> - Champagne <b>CF#</b> - Custom finish, specify RAL#	<b>FF14</b> - Fully frosted 1/4" diffuser <b>FF34</b> - Fully frosted 3/4" diffuser	<b>FFFH</b> - Fully frosted flush diffuser <b>FF14</b> - Fully frosted 1/4" diffuser <b>FF34</b> - Fully frosted 3/4" diffuser <b>NA</b> - Not applicable

LIGHT SOURCE	COLOR QUALITY	CRI	COLOR TEMP.	VOLTAGE	DIRECT WATTAGE <sup>7</sup>	INDIRECT WATTAGE <sup>9</sup> Specify NA for Direct
<b>SW</b> - Static white <b>FS</b> - Full spectrum	<b>2STP</b> <sup>4</sup> - 2 Step MacAdam Ellipse <b>3STP</b> - 3 Step MacAdam Ellipse  <sup>4</sup> Not available with full spectrum.	<b>90CRI</b> <sup>5</sup> - 90 CRI <b>95CRI</b> - 95 CRI <b>80CRI</b> <sup>5</sup> - 80 CRI  <sup>5</sup> Not available with full spectrum.	<b>27K</b> - 2700K <b>30K</b> - 3000K <b>35K</b> - 3500K <b>40K</b> - 4000K	<b>120V</b> - 120V <b>277V</b> - 277V <b>UNV</b> - 120V-277V <b>347V</b> <sup>6</sup> - 347V  <sup>6</sup> Available with RD1 driver only. Please consult factory.	<b>7W</b> - 7 W output, up to 481 lm <b>10W</b> <sup>8</sup> - 10 W output, up to 646 lm  <sup>7</sup> Lumen outputs are reduced with full spectrum, consult factory. <sup>8</sup> Not available for a DI fixture.	<b>7W</b> - 7 W output, up to 261 lm <b>NA</b> - Not applicable  <sup>9</sup> Lumen outputs are reduced with full spectrum, consult factory.
<b>SOLA</b> - Dim-to-warm single channel control 35K to 22K <b>DUO</b> - Tunable white 2-channel control 65K to 27K	<b>3STP</b> - 3 Step MacAdam Ellipse	<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		<b>SOLA</b> <b>8W</b> - 8 W output, up to 215 lm <b>DUO</b> <b>7W</b> - 7 W output, up to 170 lm	<b>SOLA</b> <b>8W</b> - 8 W output, up to 200 lm <b>DUO</b> <b>7W</b> - 7 W output, up to 180 lm <b>NA</b> - Not applicable

DIMMING <sup>10</sup>			ELECTRICAL	CANOPY TYPE <sup>17</sup>	CANOPY FINISH
<b>INTEGRAL</b> <b>DI</b> - 1% 0-10V <b>ELV</b> <sup>11</sup> - ELV 120V <b>TRI</b> <sup>11</sup> - TRIAC 120V  <sup>10</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>11</sup> Available with 120V only.	<b>REMOTE</b> <sup>12</sup> <b>RD1</b> - 1% 0-10V <b>RELV</b> <sup>13</sup> - ELV 120V <b>RTRI</b> <sup>13</sup> - TRIAC 120V  <sup>12</sup> A remote driver box is provided, see page 5 for details. <sup>13</sup> Available with 120V only.	<b>RLDEI</b> <sup>14</sup> - Lutron Hi-lume 1% Eco <b>RDA</b> <sup>14</sup> - DALI <b>RELDI</b> - eldoLED 1% ECOdrive 0-10V <b>RELD0</b> - eldoLED 0.1% SOLOdrive 0-10V <b>+EB</b> <sup>15</sup> - Emergency battery  <sup>14</sup> On-site commissioning is required. <sup>15</sup> For emergency battery, code will be like the following example: RD1+EB.	<b>1C</b> - 1 circuit <b>2C</b> <sup>16</sup> - 2 circuits  <sup>16</sup> Available with Direct/Indirect only.	<b>FLR</b> <sup>18,19</sup> - Flat round canopy, 4" octagonal junction box <b>CDR</b> <sup>18,19</sup> - Conduit feed, round canopy <b>DMNC</b> <sup>18,20</sup> - Direct mount, new construction <b>DMRM</b> <sup>18,20,21</sup> - Direct mount, remodel <b>DR</b> <sup>22</sup> - Deep round canopy  <sup>17</sup> See page 4 for details. <sup>18</sup> Direct/Indirect requires a remote driver. <sup>19</sup> 6" long cylinders require a j-box for integral drivers. See page 4 for details. <sup>20</sup> 6" long cylinders require a remote driver. <sup>21</sup> Single wiring entry only. No daisy chain connections allowed. <sup>22</sup> Can accommodate up to 2 drivers.	<b>FTMW</b> - Textured matte white <b>FTMB</b> - Textured matte black <b>FCHP</b> - Champagne <b>CF#</b> - Custom finish, specify RAL#
<b>SOLA</b> <b>SD1</b> - Single 0-10V input <b>SELV</b> <sup>11</sup> - ELV 120V <b>STRI</b> <sup>11</sup> - TRIAC 120V	<b>SOLA</b> <b>RSD1</b> - Single 0-10V input <b>RSELV</b> <sup>13</sup> - ELV 120V <b>RSTRI</b> <sup>13</sup> - TRIAC 120V	<b>DUO</b> <b>RDMX</b> <sup>14</sup> - DMX <b>RDDA</b> <sup>14</sup> - DALI DT6 <b>RDDA8</b> <sup>14</sup> - DALI DT8 <b>RDD1</b> - Dual 0-10V input for CCT/intensity <b>RPSQO</b> <sup>14</sup> - Lutron T-Series 1% tunable white			

SUSPENSION	
<b>POWER CORD</b> <sup>23</sup> <b>BPC##IN</b> - Black PVC <b>WPC##IN</b> - White PVC <b>CF##F##IN</b> <sup>24,25,26</sup> - Custom color fabric, consult factory  <sup>23</sup> Min 18" - max 72", specify length (##) in inches. <sup>24</sup> Not available with DI and SD1 dimming options. <sup>25</sup> Not available for DI fixture. <sup>26</sup> Specify fabric color (#).	<b>STEM</b> <sup>27</sup> <b>BKS##IN</b> - Textured black stem <b>WHS##IN</b> - Textured white stem <b>BKSS##IN</b> <sup>28</sup> - Textured black swivel stem <b>WHSS##IN</b> <sup>28</sup> - Textured white swivel stem <b>CF#S##IN</b> <sup>29</sup> - Custom finish stem <b>CF#SS##IN</b> <sup>28,29</sup> - Custom finish swivel stem  <sup>27</sup> Min 10" - max 72", specify length (##) in inches. <sup>28</sup> Not available with DMNC/DMRM/DR canopy options, or for 6" long cylinders when specified with FLR/CDR and integral driver. <sup>29</sup> Specify RAL#.



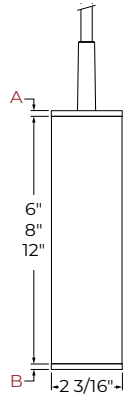
# FLAIR 2" DIFFUSER

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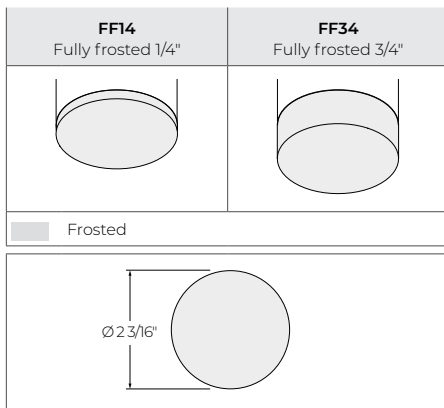
## Dimensions

### CYLINDER

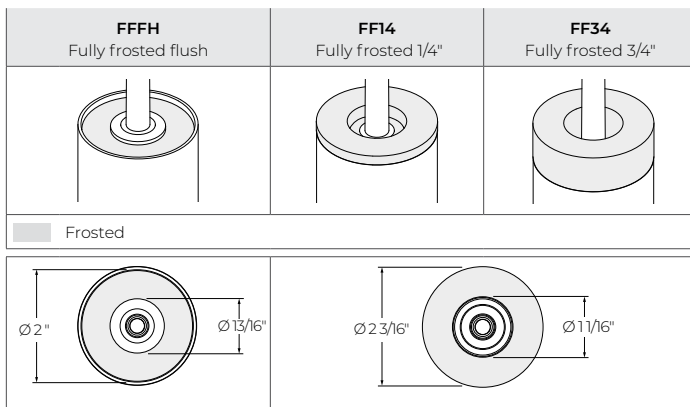


INDIRECT DIFFUSER		A
Fully frosted flush		NA
Fully frosted 1/4"		1/4"
Fully frosted 3/4"		3/4"
DIRECT DIFFUSER		B
Fully frosted 1/4"		1/4"
Fully frosted 3/4"		3/4"

### DIRECT OPTIC - DIFFUSER



### INDIRECT OPTIC - DIFFUSER



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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
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 2 3/16" Height 2"	Ø 5 5/8" Height 1 3/8"
Suspension	Power cord, Stem, Swivel stem <sup>1</sup>		Power cord, Stem		
	<sup>1</sup> Not available for 6" long cylinders specified with FLR/CDR.				
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 2 3/16" 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 2" DIFFUSER

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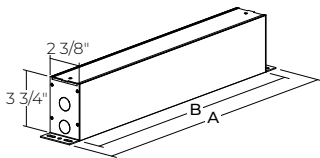


## SUSPENSION

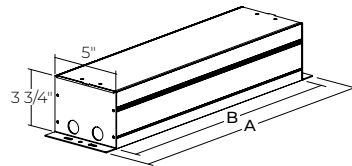
POWER CORD		STEM	
PVC	Fabric <sup>1,2</sup>	Stem	Swivel stem <sup>3,4</sup>
Power Cord Lengths (*)		Stem Lengths (*)	
Min 18" Max 72"	Min 18" Max 72"	Min 10" Max 72"	Min 10" Max 72" Max 45° tilt
<sup>1</sup> Not available with DI and SDI dimming options. <sup>2</sup> Not available for DI fixture.		<sup>3</sup> Not available with DMNC/DMRM/DR canopy options, or for 6" long cylinders when specified with FLR/CDR and integral driver. <sup>4</sup> The total stem length (*) includes the 1" swivel base located inside the canopy.	

## 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>RLDEI</b> - Lutron Hi-Lume 1% Eco <b>RDA</b> - DALI <b>RELDI</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>RPSQO</b> - Lutron T-Series 1% tunable white	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 2" DIFFUSER

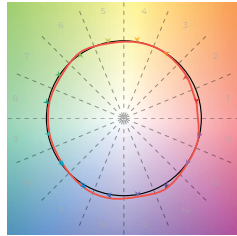
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## Color Quality

### COLOR QUALITY - 3500K

TM-30 R <sub>r</sub>	91
TM-30 R <sub>g</sub>	100
CRI	90
R9	> 50

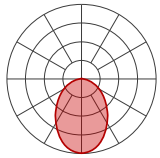


## Photometrics

Values calculated based on 3500K.

### DIRECT OPTIC - DIFFUSER

Fully frosted 1/4"



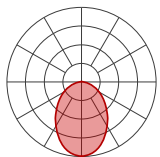
Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
7 W	359	276	383
10 W	481	370	514

Efficacy

CRI	90 CRI	95 CRI	80 CRI
7 W	51	39	55
10 W	48	37	51

Fully frosted 3/4"



Delivered lumens

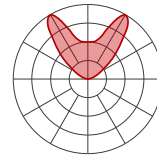
CRI	90 CRI	95 CRI	80 CRI
7 W	450	346	481
10 W	604	464	646

Efficacy

CRI	90 CRI	95 CRI	80 CRI
7 W	64	49	69
10 W	60	46	65

### INDIRECT OPTIC - DIFFUSER

Fully frosted flush



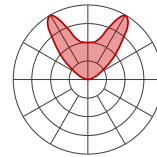
Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
7 W	245	188	261

Efficacy

CRI	90 CRI	95 CRI	80 CRI
7 W	35	27	37

Fully frosted 1/4"



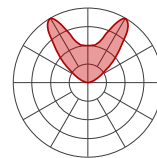
Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
7 W	227	174	242

Efficacy

CRI	90 CRI	95 CRI	80 CRI
7 W	32	25	35

Fully frosted 3/4"



Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
7 W	224	173	240

Efficacy

CRI	90 CRI	95 CRI	80 CRI
7 W	32	25	34

### MULTIPLIERS

Please follow the multiplier table to ensure correct lumen value.

CCT	Multiplier
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.

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

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## Technical Specifications

### 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.

### 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 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 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, custom color fabric. 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 #).

**Diffuser:** Acrylic

**Heat sink:** Die-cast aluminum

### WEIGHT

Direct/Indirect	Direct
6": 1.3 lbs - 0.6 kg	6": 1.1 lbs - 0.5 kg
8": 1.4 lbs - 0.6 kg	8": 1.3 lbs - 0.6 kg
12": 1.7 lbs - 0.8 kg	12": 1.6 lbs - 0.7 kg

### 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.