

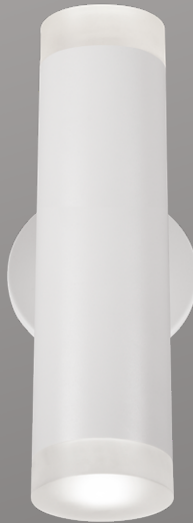
# FLAIR 3" DIFFUSER

CYLINDER WALL

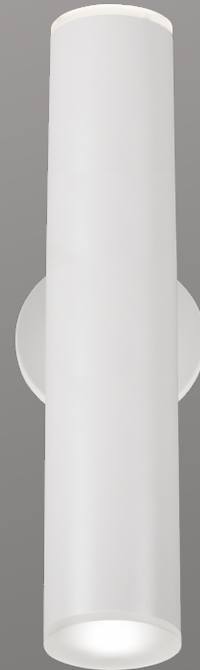
DIRECT/INDIRECT, DIRECT, INDIRECT



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



Partially frosted  
3/4" diffuser

## Indirect optic - 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



3"  
Glow ring



3"  
Sleeve

Pendant/Surface/Wall    Pendant/Surface/Wall    Pendant/Surface/Wall

[www.lumenwerx.com](http://www.lumenwerx.com)  
T (514) 225-4304

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FLAIR3-DIFFUSER-CYLINDER-WALL-SPEC-REV1 February 6, 2024



# FLAIR 3" DIFFUSER

## CYLINDER WALL

DIRECT/INDIRECT, DIRECT, INDIRECT



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

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

### Order Guide

LUMINAIRE ID	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	OPTIC
<b>FL3DFCYW</b>				
<b>FL3DFCYW</b> - Flair 3" Diffuser Cylinder Wall	<b>DI</b> - Direct/Indirect <b>D</b> - Direct <b>I</b> - Indirect	<b>6IN</b> <sup>1</sup> - 6" <b>8IN</b> <sup>1</sup> - 8" <b>12IN</b> - 12"  <sup>1</sup> For Direct/Indirect fixture, available with remote driver only.	<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>PF34</b> - Partially frosted 3/4" diffuser

LIGHT SOURCE	COLOR QUALITY	CRI	COLOR TEMP.	VOLTAGE
<b>SW</b> - Static white <b>FS</b> - Full spectrum	<b>2STP</b> <sup>2</sup> - 2 Step MacAdam Ellipse <b>3STP</b> - 3 Step MacAdam Ellipse  <sup>2</sup> Not available with full spectrum.	<b>90CRI</b> <sup>3</sup> - 90 CRI <b>95CRI</b> - 95 CRI <b>80CRI</b> <sup>3</sup> - 80 CRI  <sup>3</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>4</sup> - 347V
<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	<sup>4</sup> Available with RD1 driver only. Please consult factory.

DIRECT WATTAGE <sup>5</sup> Specify NA for Indirect	INDIRECT WATTAGE <sup>7</sup> Specify NA for Direct	DIMMING <sup>9</sup>		
<b>10W</b> - 10 W output, up to 742 lm <b>14W</b> - 14 W output, up to 1007 lm <b>20W</b> <sup>6</sup> - 20 W output, up to 1383 lm <b>NA</b> - Not applicable  <sup>5</sup> Lumen outputs are reduced with full spectrum, consult factory. <sup>6</sup> Not available for a Direct/Indirect fixture.	<b>10W</b> - 10 W output, up to 742 lm <b>14W</b> - 14 W output, up to 1007 lm <b>20W</b> <sup>8</sup> - 20 W output, up to 1383 lm <b>NA</b> - Not applicable  <sup>7</sup> Lumen outputs are reduced with full spectrum, consult factory. <sup>8</sup> Not available for a Direct/Indirect fixture.	<b>INTEGRAL</b> <b>DI</b> - 1% 0-10V <b>ELV</b> <sup>10</sup> - ELV 120V <b>TRI</b> <sup>10</sup> - TRIAC 120V  <sup>9</sup> PoE (Power-over-Ethernet) compatible. Consult factory for details. <sup>10</sup> Available with 120V only.	<b>REMOTE</b> <sup>11</sup> <b>RD1</b> - 1% 0-10V <b>RELV</b> <sup>12</sup> - ELV 120V <b>RTRI</b> <sup>12</sup> - TRIAC 120V  <sup>11</sup> A remote driver box is provided, see page 4 for details. <sup>12</sup> Available with 120V only.	<b>RLDE1</b> <sup>13</sup> - Lutron Hi-lume 1% Eco <b>RLDA</b> <sup>13</sup> - DALI <b>RELD1</b> - eldoLED 1% ECOdrive 0-10V <b>RELD0</b> - eldoLED 0.1% SOLOdrive 0-10V <b>+EB</b> <sup>14</sup> - Emergency battery  <sup>13</sup> On-site commissioning is required. <sup>14</sup> For emergency battery, code will be like the following example: RD1+EB.
<b>SOLA</b> <b>12W</b> - 12 W output, up to 615 lm  <b>DUO</b> <b>11W</b> - 11 W output, up to 450 lm <b>NA</b> - Not applicable	<b>SOLA</b> <b>12W</b> - 12 W output, up to 615 lm  <b>DUO</b> <b>11W</b> - 11 W output, up to 450 lm <b>NA</b> - Not applicable	<b>SOLA</b> <b>SD1</b> - Single 0-10V input <b>SELV</b> <sup>10</sup> - ELV 120V <b>STRI</b> <sup>10</sup> - TRIAC 120V	<b>SOLA</b> <b>RSD1</b> - Single 0-10V input <b>RSELV</b> <sup>12</sup> - ELV 120V <b>RSTRI</b> <sup>12</sup> - TRIAC 120V	<b>DUO</b> <b>RDMX</b> <sup>13</sup> - DMX <b>RDDA</b> <sup>13</sup> - DALI DT6 <b>RDDA8</b> <sup>13</sup> - DALI DT8 <b>RDD1</b> - Dual 0-10V input for CCT/intensity <b>RPSQO</b> <sup>13</sup> - Lutron T-Series 1% tunable white

ELECTRICAL	MOUNTING TYPE	MOUNTING FINISH <sup>16</sup>
<b>1C</b> - 1 circuit <b>2C</b> <sup>15</sup> - 2 circuits  <sup>15</sup> Available with Direct/Indirect and remote driver only.	<b>FLR</b> - Flat round canopy, 4" octagonal junction box <b>DM</b> - Direct mount	<b>FTMW</b> - Textured matte white <b>FTMB</b> - Textured matte black <b>FCHP</b> - Champagne <b>CF#</b> - Custom finish, specify RAL#  <sup>16</sup> Direct mount finish matches cylinder finish.

# FLAIR 3" DIFFUSER

## CYLINDER WALL

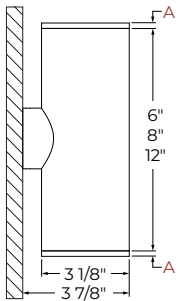
DIRECT/INDIRECT, DIRECT, INDIRECT



### Dimensions

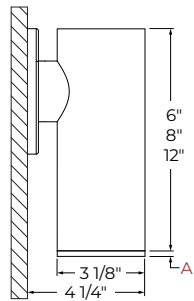
#### CYLINDER

Direct/Indirect <sup>1</sup>



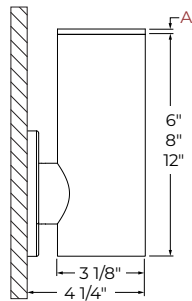
Direct mount <sup>2</sup>

Direct <sup>1</sup>



Flat round canopy <sup>2</sup>

Indirect <sup>1</sup>



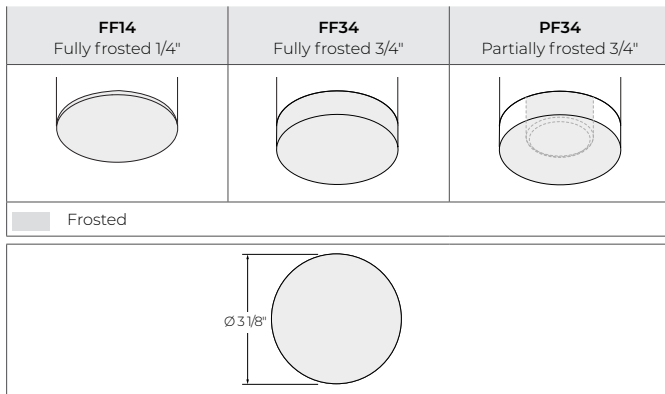
Flat round canopy <sup>2</sup>

DIFFUSER	A
Fully frosted 1/4"	1/4"
Fully frosted 3/4"	3/4"
Partially frosted 3/4"	3/4"

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

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

#### OPTIC - DIFFUSER



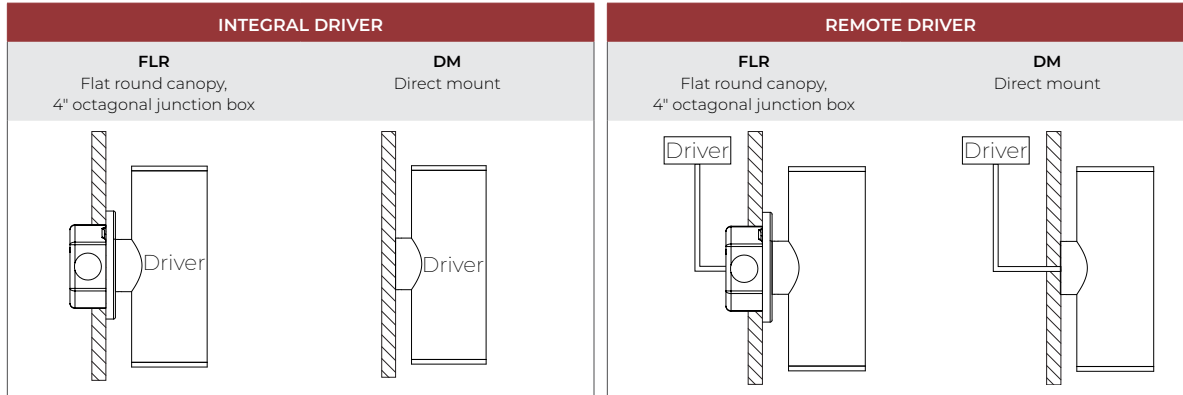
# FLAIR 3" DIFFUSER

## CYLINDER WALL

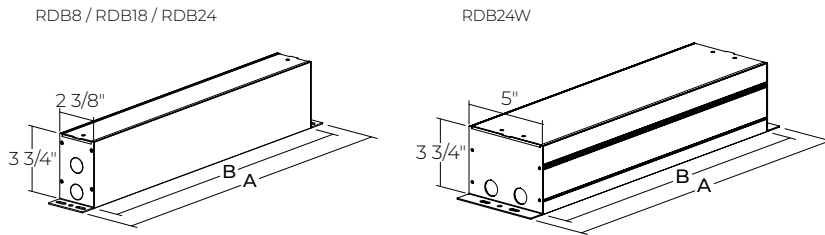
DIRECT/INDIRECT, DIRECT, INDIRECT



### Mounting



### REMOTE DRIVER BOX



	RDB8	RDB18	RDB24	RDB24W
<b>A</b>	10"	20"	26"	26"
<b>B</b>	8"	18"	24"	24"
<b>DRIVER</b>	<b>RD1</b> - 1% 0-10V <b>RELV</b> - ELV 120V <b>RTRI</b> - TRIAC 120V  <b>SOLA</b> <b>RSD1</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>RD1+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>RPSQ0</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 3" DIFFUSER

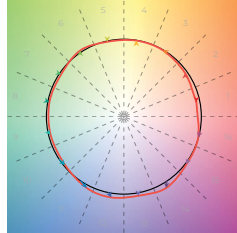
CYLINDER WALL

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

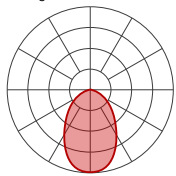


## Photometrics

Values calculated based on 3500K.

### DIRECT OPTIC - DIFFUSER

Fully frosted 1/4"



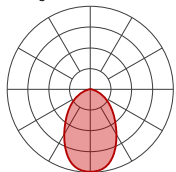
Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
10 W	664	510	709
14 W	901	693	963
20 W	1237	951	1322

Efficacy

CRI	90 CRI	95 CRI	80 CRI
10 W	66	51	71
14 W	64	49	69
20 W	62	48	66

Fully frosted 3/4"



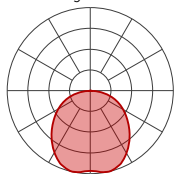
Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
10 W	694	534	742
14 W	942	725	1007
20 W	1294	995	1383

Efficacy

CRI	90 CRI	95 CRI	80 CRI
10 W	69	53	74
14 W	67	52	72
20 W	65	50	69

Partially frosted 3/4"



Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
10 W	660	507	705
14 W	896	689	957
20 W	1230	946	1315

Efficacy

CRI	90 CRI	95 CRI	80 CRI
10 W	66	51	71
14 W	64	49	68
20 W	61	47	66

### 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.

# FLAIR 3" DIFFUSER

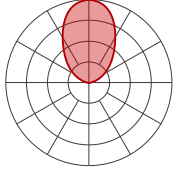
## CYLINDER WALL

DIRECT/INDIRECT, DIRECT, INDIRECT



### INDIRECT OPTIC - DIFFUSER

Fully frosted 1/4"



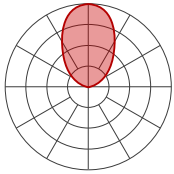
Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
10 W	664	510	709
14 W	901	693	963
20 W	1237	951	1322

Efficacy

CRI	90 CRI	95 CRI	80 CRI
10 W	66	51	71
14 W	64	49	69
20 W	62	48	66

Fully frosted 3/4"



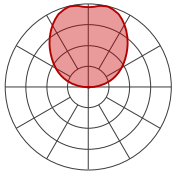
Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
10 W	694	534	742
14 W	942	725	1007
20 W	1294	995	1383

Efficacy

CRI	90 CRI	95 CRI	80 CRI
10 W	69	53	74
14 W	67	52	72
20 W	65	50	69

Partially frosted 3/4"



Delivered lumens

CRI	90 CRI	95 CRI	80 CRI
10 W	660	507	705
14 W	896	689	957
20 W	1230	946	1315

Efficacy

CRI	90 CRI	95 CRI	80 CRI
10 W	66	51	71
14 W	64	49	68
20 W	61	47	66

### 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" DIFFUSER

## CYLINDER WALL

DIRECT/INDIRECT, DIRECT, INDIRECT



## 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

**Canopy:** Flat and direct

**Arm:** Machined aluminum

**Finish:** Textured matte white, black, and champagne. Custom colors also available (provide RAL #).

**Diffuser:** Acrylic

**Heat sink:** Die-cast aluminum

### WEIGHT

Direct/Indirect	Direct or Indirect
<b>6":</b> 2.2 lbs - 1 kg	<b>6":</b> 2 lbs - 0.9 kg
<b>8":</b> 2.4 lbs - 1.1 kg	<b>8":</b> 2.2 lbs - 1 kg
<b>12":</b> 2.9 lbs - 1.3 kg	<b>12":</b> 2.4 lbs - 1.1 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.