FLAIR 3" DIFFUSER

CYLINDER SURFACE
DIRECT

Lumenwerx

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.

Optic - Diffuser

Fully frosted
1/4" dffuser

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

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PoE
Power over Ethernet

FLAIR 3" DIFFUSER

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Project: _____

_____

Type: _____

Order Guide

LUMINAIRE ID	DISTRIBUTION	CYLINDER HEIGHT	CYLINDER FINISH	OPTIC	LIGHT SOURCE
FL3DFCYS	**D**				
FL3DFCYS - Flair 3" Diffuser Cylinder Surface	**D** - Direct	**6IN** [1] - 6" **8IN** - 8" **12IN** - 12" **CH#IN** [2] - Custom height [1] Not available with DMNC/DMRM canopy options when specified with integral drivers. [2] Specify height (#) in 1" increments only. Up to maximum 36". For minimum heights, see page 4.	**FTMW** - Textured matte white **FTMB** - Textured matte black **FCHP** - Champagne **CF#** - Custom finish, specify RAL#	**FF14** - Fully frosted 1/4" diffuser **FF34** - Fully frosted 3/4" diffuser **PF34** - Partially frosted 3/4" diffuser	**SW** - Static white **FS** - Full spectrum **SOLA** - Dim-to-warm single channel control 35K to 22K **DUO** - Tunable white 2-channel control 65K to 27K

COLOR QUALITY	CRI	COLOR TEMP.	VOLTAGE	WATTAGE [6]
2STP [3] - 2 Step MacAdam Ellipse **3STP** - 3 Step MacAdam Ellipse [3] Not available with full spectrum.	**90CRI** [4] - 90 CRI **95CRI** - 95 CRI **80CRI** [4] - 80 CRI [4] Not available with full spectrum.	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K	**120V** - 120V **277V** - 277V **UNV** - 120V-277V **347V** [5] - 347V [5] Available with RD1 driver only. Please consult factory.	**10W** - 10 W output, up to 742 lm **14W** - 14 W output, up to 1007 lm **20W** - 20 W output, up to 1383 lm [6] Lumen outputs are reduced with full spectrum, consult factory.
3STP - 3 Step MacAdam Ellipse	**90CRI** - 90 CRI	**SOLA** - Dim-to-warm single channel control 35K to 22K **DUO** - Tunable white 2-channel control 65K to 27K		SOLA **12W** - 12 W output, up to 615 lm DUO **11W** - 11 W output, up to 450 lm

DIMMING [7]		CANOPY TYPE [13]	CANOPY FINISH Specify NA for DM
INTEGRAL **D1** - 1% 0-10V **ELV** [8] - ELV 120V **TRI** [8] - TRIAC 120V [7] PoE (Power-over-Ethernet) compatible. Consult factory for details. [8] Available with 120V only.	**REMOTE** [9] **RD1** - 1% 0-10V **RELV** [10] - ELV 120V **RTRI** [10] - TRIAC 120V **RLDE1** [11] - Lutron Hi-lume 1% Eco **RDA** [11] - DALI **RELD1** - eldoLED 1% ECOdrive 0-10V **RELD0** - eldoLED 0.1% SOLOdrive 0-10V **+EB** [12] - Emergency battery [9] A remote driver box is provided, see page 4 for details. [10] Available with 120V only. [11] On-site commissioning is required. [12] For emergency battery, code will be like the following example: RD1+EB.	**FLR** [14] - Flat round canopy, 4" octagonal junction box **CDR** [14] - Conduit feed, round canopy **DMNC** [15] - Direct mount, new construction **DMRM** [15,16] - Direct mount, remodel [13] See page 4 for details. [14] 6" long cylinders require a j-box for integral drivers. See page 4 for details. [15] 6" long cylinders require a remote driver. [16] 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** - None
SOLA **SD1** - Single 0-10V input **SELV** [8] - ELV 120V **STRI** [8] - TRIAC 120V	SOLA **RSD1** - Single 0-10V input **RSELV** [10] - ELV 120V **RSTRI** [10] - TRIAC 120V DUO **RDMX** [11] - DMX **RDDA** [11] - DALI DT6 **RDDA8** [11] - DALI DT8 **RDD1** - Dual 0-10V input for CCT/intensity **RLD2** [11] - Lutron DALI-2 digital		

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Dimensions

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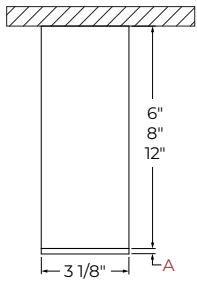
DIFFUSER	A
Fully frosted 1/4"	1/4"
Fully frosted 3/4"	3/4"
Partially frosted 3/4"	3/4"

6"
8"
12"

3 1/8"
A

OPTIC - DIFFUSER

FF14 Fully frosted 1/4"	FF34 Fully frosted 3/4"	PF34 Partially frosted 3/4"

Frosted

Ø 3 1/8"

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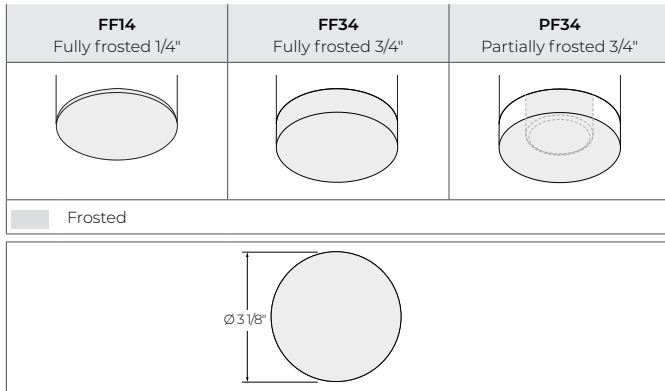
Mounting

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	6" (Driver in junction box) 8" (Driver in cylinder)		8"		6"			

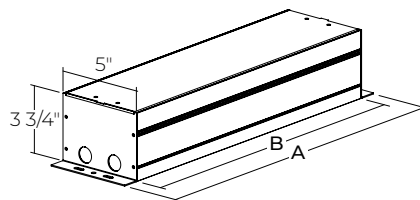*Single wiring entry only. No daisy chain connections allowed.

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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Color Quality

COLOR QUALITY - 3500K	
TM-30 R$_f$	90
TM-30 R$_g$	100
CRI	90
R9	> 50
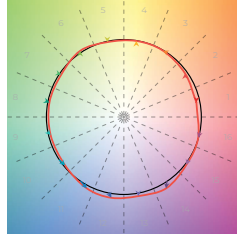
Photometrics

Values calculated based on 3500K.

Fully frosted 1/4"
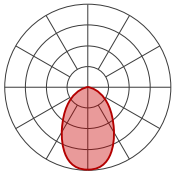
Delivered lumens

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"
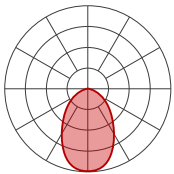
Delivered lumens

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"
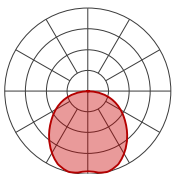
Delivered lumens

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.

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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 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 #).
Diffuser: Acrylic
Heat sink: Die-cast aluminum

WEIGHT

6": 2 lbs - 0.9 kg
8": 2.2 lbs - 1 kg
12": 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.

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