

FLAIR 3" DIFFUSER

CYLINDER SURFACE

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.

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

Pendant/Surface/Wall



3"
Glow ring

Pendant/Surface/Wall



3"
Sleeve

Pendant/Surface/Wall

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% SOLQdrive 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 RDMA ¹¹ - DMX RDDA ¹¹ - DALI DT6 RDDA8 ¹¹ - DALI DT8 RDDI - Dual 0-10V input for CCT/intensity RPSQO ¹¹ - Lutron T-Series 1% tunable white	



FLAIR 3" DIFFUSER

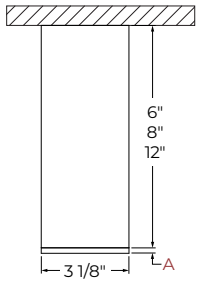
CYLINDER SURFACE

DIRECT



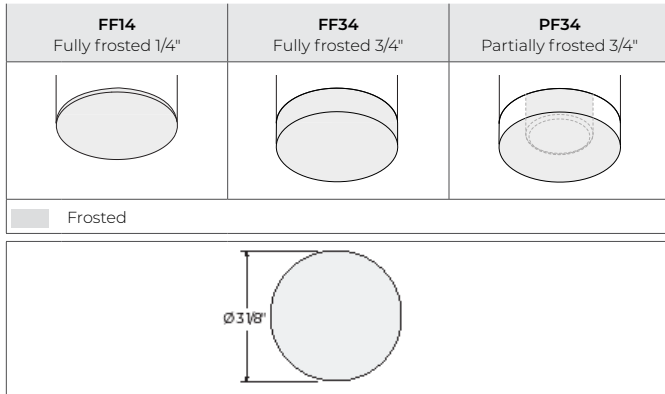
Dimensions

CYLINDER



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

OPTIC - DIFFUSER



FLAIR 3" DIFFUSER

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Mounting

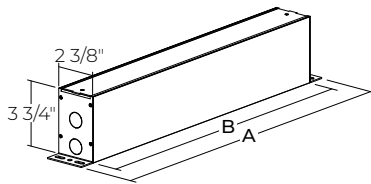
CANOPY

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"			

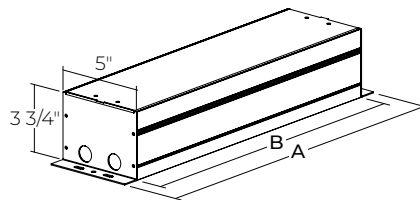
*Single wiring entry only. No daisy chain connections allowed.

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 RPSQ0 - Lutron T-Series 1% tunable white	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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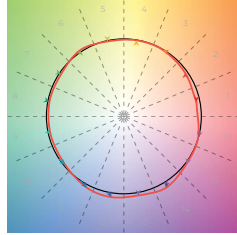
CYLINDER SURFACE

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Color Quality

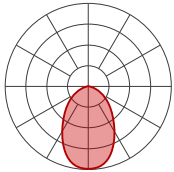
COLOR QUALITY - 3500K	
TM-30 R _r	90
TM-30 R _g	100
CRI	90
R9	> 50



Photometrics

Values calculated based on 3500K.

Fully frosted 1/4"



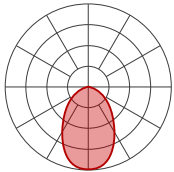
Delivered lumens

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"



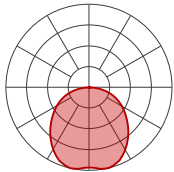
Delivered lumens

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 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, 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.