



Project	
Notes	
Type	Date
Cat. No.	

**LFL™ Series**

**LED Flood Light**



**DESCRIPTION**

The LFL Series LED Flood Light utilizes precision optics to beautifully illuminate a range of applications while its ultra slim form factor blends seamlessly with the environment. The LFL Series Flood reflector system and SMD LED technology produce excellent uniformity and exceptional photometrics performance.

**Specification Features**

**Construction**

Rugged low profile aluminum alloy housing withstands outdoor environments. Outer surface treated with durable powder coating to provide resistance to corrosion, rust, weathering and/or degradation.

**Certification**

All luminaires are built to UL 1598 and 2108 standards, and bear appropriate ETL labels. Wet location labeling is standard. Not all models of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which models are qualified.

**Warranty**

3-year Limited Warranty. See complete warranty for terms and exclusions. (Labor not included).

**Electrical**

Equipped standard with 120-277V fixed output driver operating at 60HZ.

**Installation**

Suitable for wall mounting using Yoke or surface or Knuckle mounting.



**LFL Series**

- 15W, (1,500 Lumens)
- 30W, (3,000 Lumens)
- 50W, (5,000 Lumens)

Rated Life 50,000 hours  
 Limited Warranty 3 years  
 Efficacy Up to 100 LPW

**Quick Ship/ DLC Qualified**

- LFL-15-MV-850
- LFL-30-MV-850
- LFL-50-MV-850

**Ordering Information**

Example: LFL-15-120-850

LFL	15	120	8	50	KM	
<b>Series</b> LFL LED Flood Light	<b>Rated Watage</b> 15- 15W, (1,500 Lumens) 30- 30W, (3,000 Lumens) 50- 50W, (5,000 Lumens)	<b>Driver Type</b> MV- 120-277V	<b>CRI</b> 8 80+ CRI	<b>Color Temp</b> 50 5000 K	<b>Mounting</b> KM- Knuckle Mount YM- Yoke Mount	

Specifications and Dimensions subject to change without notice.

## Performance Summary

Input Voltage	120V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 100 LPW (typ.)
CRI	80+, R8 > 0
Available CCT <sup>1</sup>	5000K
Color Consistency <sup>2</sup>	5-step MacAdam Ellipse
Rated Life	50,000 hours
L70 <sup>3</sup>	> 72,000 hours or > 45,000 >
Power Factor	0.99
THD	< 20%
Dimming	N/A
Operating Temp.	-18°C to 40°C

## Performance Data

Lens Type	Form Factor	Catalog No.	Rated Wattage (W)	Delivered Lumens	Efficacy (lm/W)
Acrylic	5.31"	<a href="#">LFL-15-120-850</a>	15W	1,500	100
	9.45"	<a href="#">LFL-30-MV-850</a>	30W	3,000	100
	11.81"	<a href="#">LFL-50-MV-850</a>	50W	5,000	100

### NOTES:

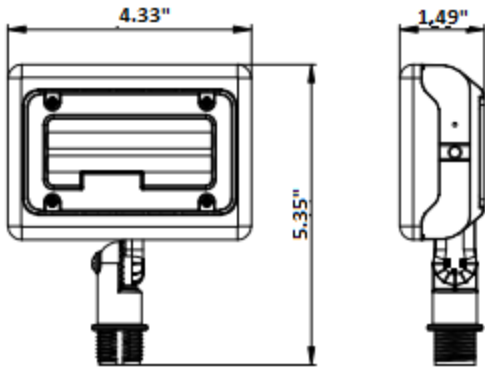
- <sup>1</sup> Made to order items. Minimum 90 day lead time. Minimum 500 order quantity.
- <sup>2</sup> Energy star listed
- <sup>3</sup> Quick ship: Other CCTs may require a lead time or be special order
- <sup>4</sup> Typical color consistency. May vary or be changed.
- <sup>5</sup> L70 hours calculated based on LED package manufacturer LM80 report and ISTMT report of LED in luminaire. Stated values are for select catalog numbers. Contact manufacturer for detailed information
- <sup>6</sup> Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at -18 °C.

Specifications and Dimensions subject to change without notice.

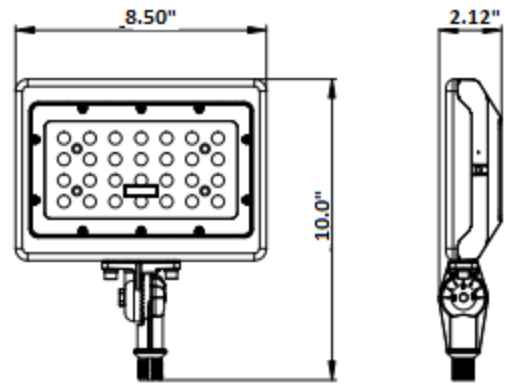


Product Dimensions

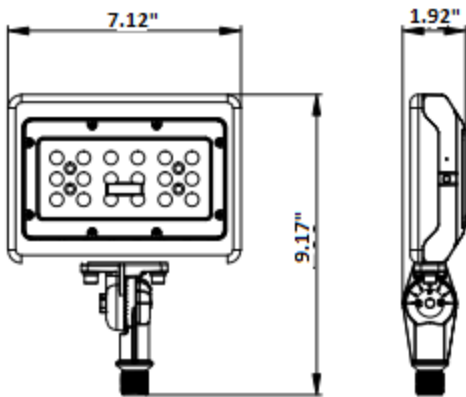
LFL15



LFL-50



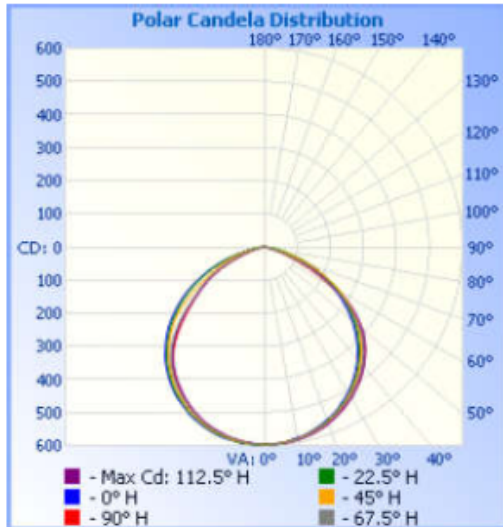
LFL-30



Photometric Data

LFL-15-120-850 Tested in accordance to IESNA LM-79

Polar Candela Curve



Zonal Lumen Summary

Coefficient of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

Zone	Lumens	% Lamp	% Luminaire
0-30	468.3	29.4%	29.4%
0-40	771.1	48.4%	48.4%
0-60	1,350.0	84.7%	84.7%
60-90	243.3	15.3%	15.3%
70-100	72.2	4.5%	4.5%
90-120	0	0%	0%
0-90	1,593.3	100%	100%
90-180	0	0%	0%
0-180	1,593.3	100%	100%

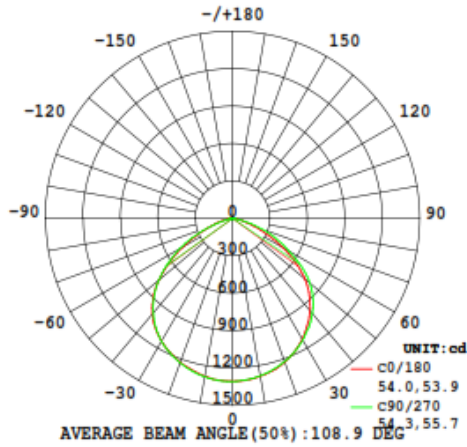
RCC %:	80				70				50			30			10		0	
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.10	1.06	1.02	.98	1.07	1.03	1.00	.87	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2	1.00	.93	.87	.81	.98	.91	.85	.74	.87	.83	.78	.84	.80	.77	.81	.78	.75	.73
3	.92	.82	.74	.68	.90	.80	.73	.64	.77	.71	.66	.75	.70	.65	.72	.68	.64	.62
4	.84	.73	.64	.58	.82	.72	.64	.55	.69	.62	.57	.67	.61	.56	.65	.60	.55	.53
5	.78	.65	.57	.50	.76	.64	.56	.48	.62	.55	.49	.60	.54	.49	.58	.53	.48	.46
6	.72	.59	.50	.44	.70	.58	.50	.42	.56	.49	.43	.54	.48	.43	.53	.47	.43	.40
7	.66	.53	.45	.39	.65	.52	.44	.38	.51	.44	.38	.50	.43	.38	.48	.42	.38	.36



Photometric Data

LFL-30-120-850 Tested in accordance to IESNA LM-79

Polar Candela Curve



Zonal Lumen Summary

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum.lam
10	1285	1289	1281	1291	1285	1285	1289	1282	0-10	123.8	123.8	3.64,3.64
20	1224	1232	1221	1241	1229	1229	1232	1225	10-20	356.5	480.3	14.1,14.1
30	1119	1130	1126	1144	1138	1140	1139	1126	20-30	547.1	1027	30.2,30.2
40	966.3	991.4	994.5	1008	1000	998.2	988.8	983.1	30-40	668.3	1696	49.8,49.8
50	758.9	792.5	809.6	810.5	771.2	785.1	773	778.6	40-50	691.2	2387	70.1,70.1
60	462.4	513.8	520.1	529	460.9	471.1	491.5	469.1	50-60	574	2961	87.87
70	179.8	204	246.4	213	186.9	167.4	174.9	166.2	60-70	331.5	3292	96.7,96.7
80	32.76	29.91	25.86	32.66	37.23	25.21	20.75	23.12	70-80	101.1	3394	99.7,99.7
90	0	0	0	0	0	0	0	0	80-90	10.44	3404	100,100
100	0	0	0	0	0	0	0	0	90-100	0	3404	100,100
110	0	0	0	0	0	0	0	0	100-110	0	3404	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3404	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3404	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3404	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3404	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3404	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3404	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3404	100,100

Coefficient of Utilization - Zonal Cavity Method

cc	80%			70%			50%			30%			10%			0														
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
fc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00														
1.0	1.06	1.02	.99	1.04	1.01	.97	.90	.97	.94	.96	.94	.92	.92	.90	.89	.87														
2.0	.94	.88	.82	.92	.86	.81	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74														
3.0	.83	.75	.69	.81	.74	.69	.78	.72	.68	.76	.71	.66	.73	.69	.65	.63														
4.0	.74	.66	.59	.73	.65	.59	.70	.63	.58	.68	.62	.57	.66	.61	.57	.54														
5.0	.66	.58	.51	.65	.57	.51	.63	.56	.50	.61	.55	.50	.59	.54	.49	.47														
6.0	.60	.51	.45	.59	.51	.45	.57	.50	.44	.55	.49	.44	.54	.48	.44	.42														
7.0	.54	.46	.40	.53	.45	.40	.52	.45	.39	.50	.44	.39	.49	.43	.39	.37														
8.0	.49	.41	.35	.49	.41	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33														
9.0	.45	.37	.32	.45	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.30														
10.0	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.38	.33	.28	.27														

