

OL Series™

LED Linear Flood Luminaire

Product Description

Slim low profile design. Luminaire is constructed from rugged die cast aluminum housing and die cast end caps for superior heat dissipation and durability. Integral weather-tight LED driver compartment and high performance aluminum heat sinks. Rugged die cast mounting pads provide for soild and secure luminaire mounting. Optional field adjustable extruded mounting arms to space luminaire up to 18" (457mm) away from the mounting surface. Luminaire body is rotatable 360° in 5° increments for proper aiming and uniform illumination. Rotation is clearly marked with index marks on end caps.

Applications: Building facades, accent and sign lighting

Performance Summary

Patented NanoOptic® Product Technology

Assembled in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI (5700K); 80 CRI (3500K & 4000K)

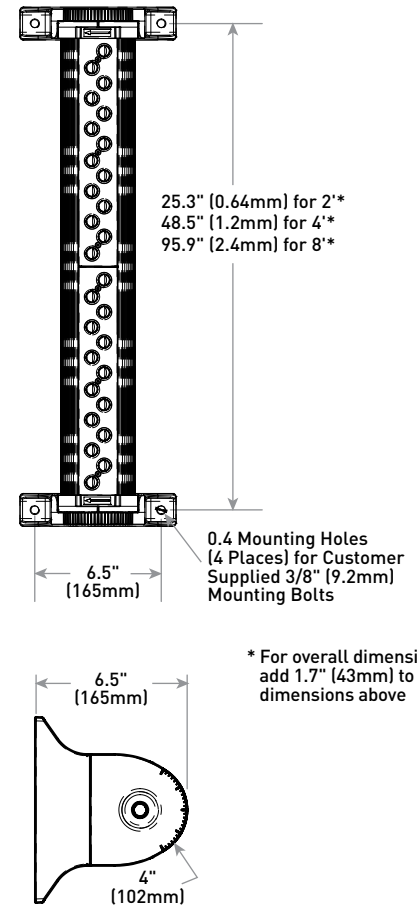
CCT: 3500K (+/- 100K), 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

* See <http://lighting.cree.com/warranty> for warranty terms

Accessories

Field-Installed		
9" (229mm) Extension Arm Spaces luminaire center 9" (229mm) away from the mounting surface XA-XFR9SV XA-XFR9WH XA-XFR9BK XA-XFR9BZ	12" (305mm) Extension Arm Spaces luminaire center 12" (305mm) away from the mounting surface XA-XFR12SV XA-XFR12WH XA-XFR12BK XA-XFR12BZ	18" (457mm) Extension Arm Spaces luminaire center 18" (457mm) away from the mounting surface XA-XFR18SV XA-XFR18WH XA-XFR18BK XA-XFR18BZ



Ordering Information

Example: FLD-OL-2M-D2-07-E-UL-SV-350

Product	Optic	Mounting	LED Count per Foot	Series	Voltage	Color Options	Drive Current	Options
FLD-OL	2M Type II Medium 15 15° Flood 25 25° Flood 40 40° Flood N6 NEMA 6° SN Sign	D2 2' (0.6m) Direct Rotatable D4 4' (1.2m) Direct Rotatable D8 8' (2.4m) Direct Rotatable	07 14	E	UL Universal 120-277V UH Universal 347-480V - Available with 14 LEDs per foot only	BK Black BZ Bronze SV Silver WH White	350 350mA 525 525mA 700 700mA	DIM 0-10V Dimming - When ordering with D2 mount, minimum of 14 LEDs per foot required - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current 35K 3500K Color Temperature - Color temperature per light bar - Minimum 80 CRI 40K 4000K Color Temperature - Color temperature per light bar - Minimum 80 CRI



US: lighting.cree.com

T (800) 236-6800 F (262) 504-5415

Rev. Date: V2 10/04/2018

Canada: www.cree.com/canada



T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- Slim low profile design
- Luminaire is constructed from rugged extruded aluminum housing and die cast end caps for superior heat dissipation and durability
- Integral weathertight LED driver compartment and high performance aluminum heat sinks
- Rugged die cast mounting pads provide for solid and secure luminaire mounting
- Optional field installable extruded aluminum arms to space luminaire up to 18" (457mm) away from the mounting surface
- Luminaire body is rotatable 360° in 5° increments for proper aiming and uniform illumination. Rotation is marked on end caps with index marks
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- 36" (914mm) outdoor rated flexible cord provided for electrical connection
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Enclosure rated IP66 per IEC 60529
- Consult factory for CE Certified products
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- RoHS Compliant
- Meets Buy American requirements within ARRA
- **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*								
Size	LED Count per Foot	System Watts 120-480V	Total Current (A)					
			120V	208V	240V	277V	347V	480V
350mA								
2 ft. (0.6m)	07	19	0.16	0.11	0.08	0.09	N/A	N/A
	14	35	0.28	0.18	0.18	0.16	0.11	0.09
4 ft. (1.2m)	07	35	0.28	0.18	0.18	0.16	N/A	N/A
	14	64	0.54	0.32	0.28	0.25	0.15	0.19
8 ft. (2.4m)	07	64	0.54	0.32	0.28	0.25	N/A	N/A
	14	126	1.10	0.65	0.58	0.53	0.26	0.36
525mA								
2ft (0.6m)	07	25	0.21	0.16	0.11	0.09	N/A	N/A
	14	50	0.41	0.25	0.22	0.20	0.12	0.15
4ft (1.2m)	07	50	0.41	0.25	0.22	0.20	N/A	N/A
	14	94	0.81	0.48	0.41	0.37	0.28	0.21
8ft (2.4m)	07	94	0.81	0.48	0.41	0.37	N/A	N/A
	14	187	1.61	0.94	0.81	0.73	0.55	0.41
700mA								
2 ft. (0.6m)	07	37	0.32	0.23	0.17	0.18	N/A	N/A
	14	66	0.55	0.33	0.29	0.26	0.20	0.15
4 ft. (1.2m)	07	66	0.55	0.33	0.29	0.26	N/A	N/A
	14	126	1.09	0.64	0.54	0.48	0.37	0.27
8 ft. (2.4m)	07	126	1.09	0.64	0.54	0.48	N/A	N/A
	14	251	2.17	1.26	1.08	0.96	0.73	0.54

* Electrical data at 25°C (77°F)

OL Series™ Ambient Adjusted Lumen Maintenance ¹					
Ambient	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Calculated ³ LMF	100K hr Calculated ³ LMF
5°C (41°F)	1.04	1.01	0.99	0.98	0.96
10°C (50°F)	1.03	1.00	0.98	0.97	0.95
15°C (59°F)	1.02	0.99	0.97	0.96	0.94
20°C (68°F)	1.01	0.98	0.96	0.95	0.93
25°C (77°F)	1.00	0.97	0.95	0.94	0.92

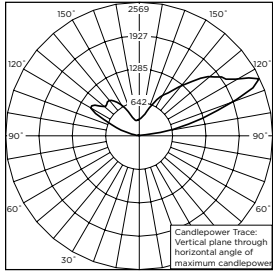
¹ Lumen maintenance values at 4000K and 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors.
² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip
³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip



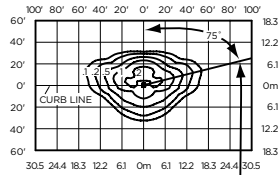
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/flood/ol-series>

2M



ITL Test Report #: 69283
FLD-OL-2M-D2-14-D-UL-700
Initial Delivered Lumens: 3,867



FLD-OL-2M-D2-14-E-UL-700
Mounting Height: 15' (4.6m) A.F.G.
Initial Delivered Lumens: 3,922
Initial FC at grade

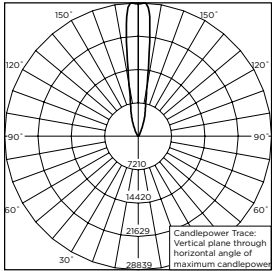
Type II Medium Distribution				
Size	LED Count per Foot	3500K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
350mA				
2 ft. (0.6m)	07	896	954	1,087
	14	1,757	1,870	2,131
4 ft. (1.2m)	07	1,793	1,908	2,174
	14	3,515	3,740	4,262
8 ft. (2.4m)	07	3,585	3,816	4,348
	14	7,030	7,480	8,524
525mA				
2 ft. (0.6m)	07	1,309	1,329	1,587
	14	2,566	2,730	3,112
4ft (1.2m)	07	2,617	2,784	3,174
	14	5,132	5,460	6,224
8ft (2.4m)	07	5,235	5,568	6,348
	14	10,263	10,920	12,448
700mA				
2ft (.6m)	07	1,649	1,755	2,000
	14	3,234	3,440	3,922
4 ft. (1.2m)	07	3,298	3,510	4,000
	14	6,467	6,880	7,844
8 ft. (2.4m)	07	6,597	7,020	8,000
	14	12,934	13,760	15,688

* Initial delivered lumens at 25°C (77°F)

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/flood/ol-series>

15



ITL Test Report #: 68860
 FLD-OL-15-RD-24-14-D-UL-700
 Initial Delivered Lumens: 5,080

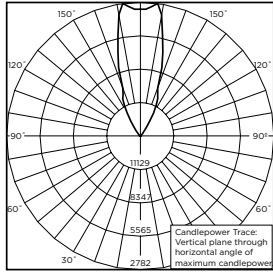
15° Flood Distribution				
Size	LED Count per Foot	3500K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
350mA				
2 ft. (0.6m)	07	1,161	1,236	1,409
	14	2,277	2,423	2,762
4 ft. (1.2m)	07	2,323	2,472	2,818
	14	4,554	4,846	5,524
8 ft. (2.4m)	07	4,646	4,944	5,636
	14	9,109	9,692	11,048
525mA				
2 ft. (0.6m)	07	1,696	1,804	2,056
	14	3,325	3,537	4,032
4 ft. (1.2m)	07	3,391	3,608	4,112
	14	6,649	7,074	8,064
8 ft. (2.4m)	07	6,783	7,216	8,224
	14	13,299	14,148	16,128
700mA				
2 ft. (0.6m)	07	2,137	2,273	2,592
	14	4,190	4,457	5,082
4 ft. (1.2m)	07	4,274	4,546	5,184
	14	8,380	8,914	10,164
8 ft. (2.4m)	07	8,548	9,092	10,368
	14	16,760	17,828	20,328

* Initial delivered lumens at 25°C (77°F)

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/flood/ol-series>

25



ITL Test Report #: 68425
 FLD-OL-25-RD-24-14-D-UL-700
 Initial Delivered Lumens: 5,132

25° Flood Distribution				
Size	LED Count per Foot	3500K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
350mA				
2 ft. (0.6m)	07	1,161	1,236	1,409
	14	2,277	2,423	2,762
4 ft. (1.2m)	07	2,323	2,472	2,818
	14	4,554	4,846	5,524
8 ft. (2.4m)	07	4,646	4,944	5,636
	14	9,109	9,692	11,048
525mA				
2 ft. (0.6m)	07	1,696	1,804	2,056
	14	3,325	3,537	4,032
4 ft. (1.2m)	07	3,391	3,608	4,112
	14	6,649	7,074	8,064
8 ft. (2.4m)	07	6,783	7,216	8,224
	14	13,299	14,148	16,128
700mA				
2 ft. (0.6m)	07	2,137	2,273	2,592
	14	4,190	4,457	5,082
4 ft. (1.2m)	07	4,274	4,546	5,184
	14	8,380	8,914	10,164
8 ft. (2.4m)	07	8,548	9,092	10,368
	14	16,760	17,828	20,328

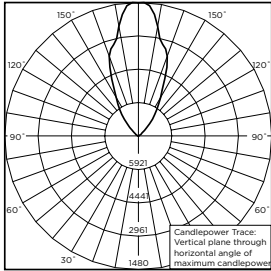
* Initial delivered lumens at 25°C (77°F)



Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/flood/ol-series>

40



ITL Test Report #: 68434
 FLD-OL-40-RD-24-14-D-UL-700
 Initial Delivered Lumens: 4588

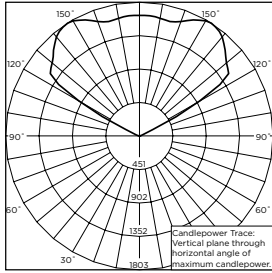
40° Flood Distribution				
Size	LED Count per Foot	3500K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
350mA				
2 ft. (0.6m)	07	1,048	1,115	1,271
	14	2,054	2,186	2,492
4 ft. (1.2m)	07	2,096	2,229	2,542
	14	4,109	4,371	4,983
8 ft. (2.4m)	07	4,191	4,459	5,083
	14	8,218	8,742	9,966
525mA				
2 ft. (0.6m)	07	1,530	1,627	1,855
	14	2,999	3,191	3,638
4 ft. (1.2m)	07	3,060	3,255	3,711
	14	5,999	6,382	7,275
8 ft. (2.4m)	07	6,119	6,510	7,421
	14	11,998	12,764	14,551
700mA				
2 ft. (0.6m)	07	1,928	2,051	2,338
	14	3,780	4,021	4,584
4 ft. (1.2m)	07	3,856	4,102	4,676
	14	7,560	8,043	9,169
8 ft. (2.4m)	07	7,712	8,204	9,353
	14	15,121	16,086	18,338

* Initial delivered lumens at 25°C (77°F)

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/flood/ol-series>

N6



ITL Test Report #: 68935
 FLD-OL-N6-RD-24-14-D-UL-700
 Initial Delivered Lumens: 4,702

NEMA® 6 Distribution				
Size	LED Count per Foot	3500K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
350mA				
2 ft. (0.6m)	07	1,086	1,155	1,317
	14	2,129	2,265	2,582
4 ft. (1.2m)	07	2,171	2,310	2,634
	14	4,257	4,530	5,164
8 ft. (2.4m)	07	4,343	4,620	5,268
	14	8,515	9,060	10,328
525mA				
2 ft. (0.6m)	07	1,585	1,686	1,922
	14	3,108	3,306	3,769
4 ft. (1.2m)	07	3,170	3,372	3,844
	14	6,216	6,612	7,538
8 ft. (2.4m)	07	6,340	6,744	7,688
	14	12,432	13,224	15,076
700mA				
2 ft. (0.6m)	07	1,998	2,125	2,423
	14	3,917	4,167	4,750
4 ft. (1.2m)	07	3,995	4,250	4,846
	14	7,834	8,334	9,500
8 ft. (2.4m)	07	7,991	8,500	9,692
	14	15,667	16,668	19,000

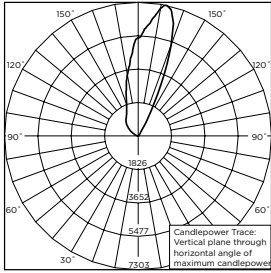
* Initial delivered lumens at 25°C (77°F)



Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/flood/ol-series>

SN



ITL Test Report #: 68433
 FLD-OL-SN-RD-24-14-D-UL-700
 Initial Delivered Lumens: 4,506

Sign Optic Distribution				
Size	LED Count per Foot	3500K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
350mA				
2 ft. (0.6m)	07	1,048	1,115	1,271
	14	2,054	2,186	2,492
4 ft. (1.2m)	07	2,096	2,229	2,542
	14	4,109	4,371	4,984
8 ft. (2.4m)	07	4,191	4,459	5,084
	14	8,218	8,742	9,962
525mA				
2 ft. (0.6m)	07	1,530	1,627	1,855
	14	2,999	3,191	3,638
4 ft. (1.2m)	07	3,060	3,255	3,710
	14	5,999	6,382	7,276
8 ft. (2.4m)	07	6,119	6,510	7,420
	14	11,998	12,764	14,552
700mA				
2 ft. (0.6m)	07	1,928	2,051	2,338
	14	3,780	4,021	4,584
4 ft. (1.2m)	07	3,856	4,102	4,676
	14	7,560	8,043	9,168
8 ft. (2.4m)	07	7,712	8,204	9,352
	14	15,121	16,086	18,336

* Initial delivered lumens at 25°C (77°F)