

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973462

Luminaire Tested: FLR2-14-30-L850-CP187

Issue Date: 3/13/2025

**Test Information**

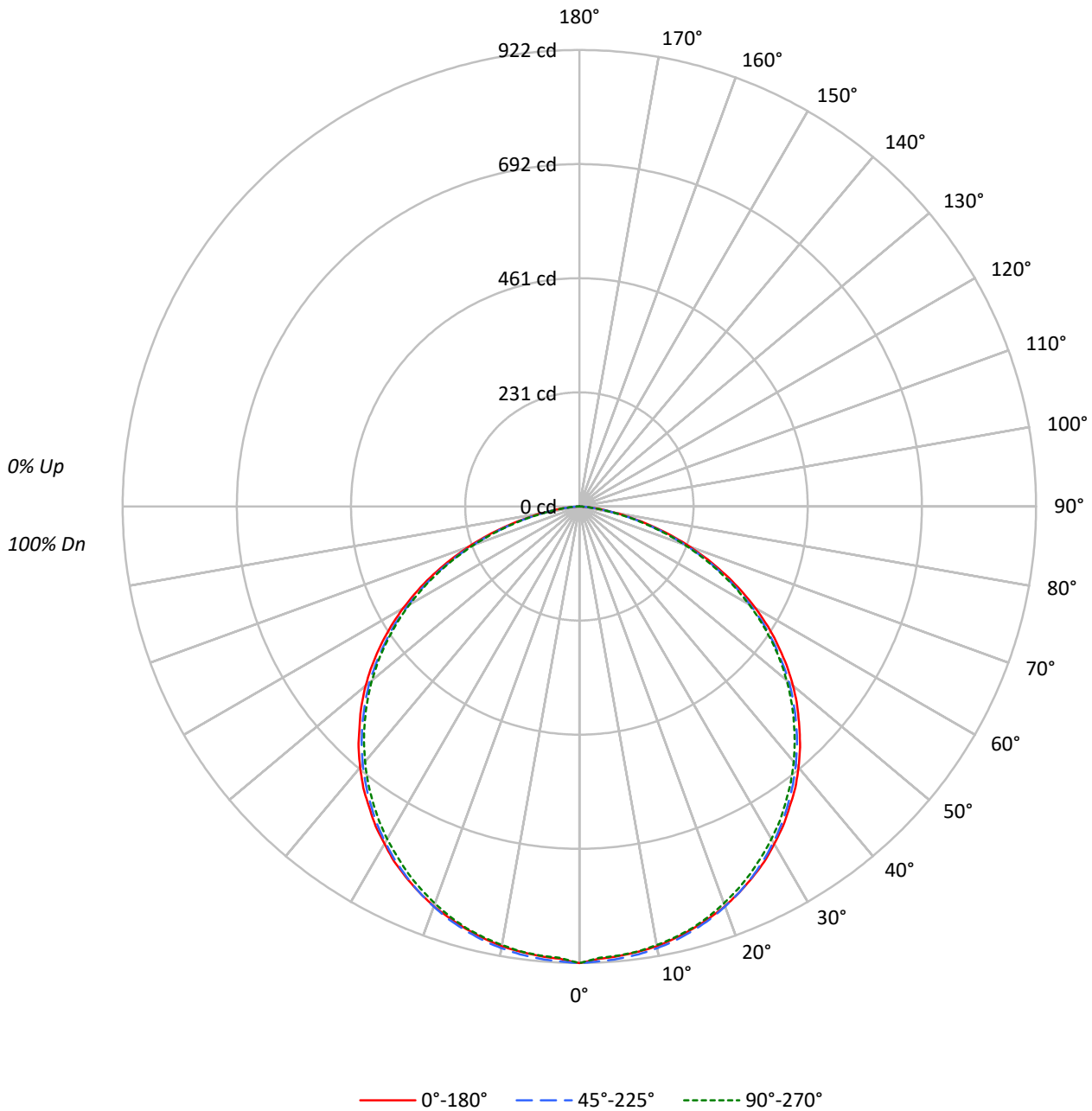
Test Method: LM-79-2019  
Report Number: P973462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30-L850-CP187  
Description: 1\*4 FLR-2.0 3000 LUMEN at 5000 CCT & 80CRI Clear Polycarbonate (0.187" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2581.8 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: FLR2-14-30-L850-CP187

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2482	2482	2482
5°	2463	2477	2460
10°	2465	2476	2458
15°	2461	2471	2456
20°	2461	2463	2444
25°	2456	2451	2428
30°	2445	2435	2411
35°	2432	2413	2389
40°	2418	2389	2364
45°	2389	2355	2331
50°	2358	2315	2287
55°	2298	2244	2223
60°	2209	2147	2129
65°	2069	2008	1986
70°	1865	1791	1775
75°	1564	1485	1469
80°	1136	1058	1029
85°	602	531	485

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2389 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.4	3.4
10°-20°	250.9	9.7
20°-30°	381.2	14.8
30°-40°	461.1	17.9
40°-50°	479.2	18.6
50°-60°	429.1	16.6
60°-70°	313.0	12.1
70°-80°	154.1	6.0
80°-90°	25.8	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	719.5	27.9
0°-40°	1180.6	45.7
0°-60°	2088.9	80.9
0°-90°	2581.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	912	922	917	926	911	87
15°	884	892	887	895	882	250
25°	827	831	826	829	818	381
35°	740	742	735	738	727	464
45°	628	627	619	620	612	485
55°	490	486	478	477	474	437
65°	325	321	315	313	312	321
75°	150	148	143	141	141	160
85°	20	19	17	15	16	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	922.4	922.4	922.4	922.4	922.4
2.5°	914.4	924.7	919.8	928.9	912.5
5°	911.7	921.7	917.1	925.9	910.6
7.5°	907.2	917.5	912.5	920.9	906.4
10°	902.2	911.4	906.0	914.4	899.5
12.5°	893.4	902.6	897.6	905.3	891.5
15°	883.5	891.5	886.9	894.6	881.6
17.5°	872.0	879.7	874.7	881.6	868.6
20°	859.4	865.5	860.2	865.9	853.3
22.5°	843.8	849.5	843.8	847.6	836.5
25°	827.0	831.2	825.5	829.3	817.8
27.5°	809.0	811.3	805.6	808.7	796.8
30°	786.9	789.6	783.5	787.3	775.8
32.5°	765.5	767.0	760.2	763.2	752.9
35°	740.3	741.8	734.6	737.6	727.3
37.5°	716.3	715.9	708.2	710.2	701.4
40°	688.4	688.0	680.0	681.5	673.1
42.5°	659.8	658.2	650.6	651.4	643.7
45°	627.7	626.9	618.9	620.0	612.4
47.5°	596.8	594.5	586.4	586.8	580.3
50°	563.2	559.7	552.9	552.1	546.4
52.5°	527.3	523.5	515.8	515.1	510.9
55°	489.9	485.7	478.4	477.3	473.8
57.5°	451.3	445.9	440.2	437.9	435.3
60°	410.4	405.5	399.0	396.7	395.5
62.5°	368.1	363.1	358.1	355.8	354.3
65°	324.9	321.1	315.4	313.1	311.9
67.5°	281.0	277.6	272.2	269.6	269.2
70°	237.1	233.7	227.6	226.0	225.6
72.5°	193.2	190.1	184.4	182.9	182.9
75°	150.4	147.8	142.8	141.3	141.3
77.5°	110.0	107.7	103.9	101.9	101.9
80°	73.3	71.8	68.3	66.8	66.4
82.5°	42.4	41.6	38.6	37.0	37.8
85°	19.5	18.7	17.2	15.3	15.7
87.5°	5.0	4.6	3.4	2.7	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)