

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: P973260

Luminaire Tested: FLR2-14-30HE-L850-CP080

Issue Date: 3/13/2025

**Test Information**

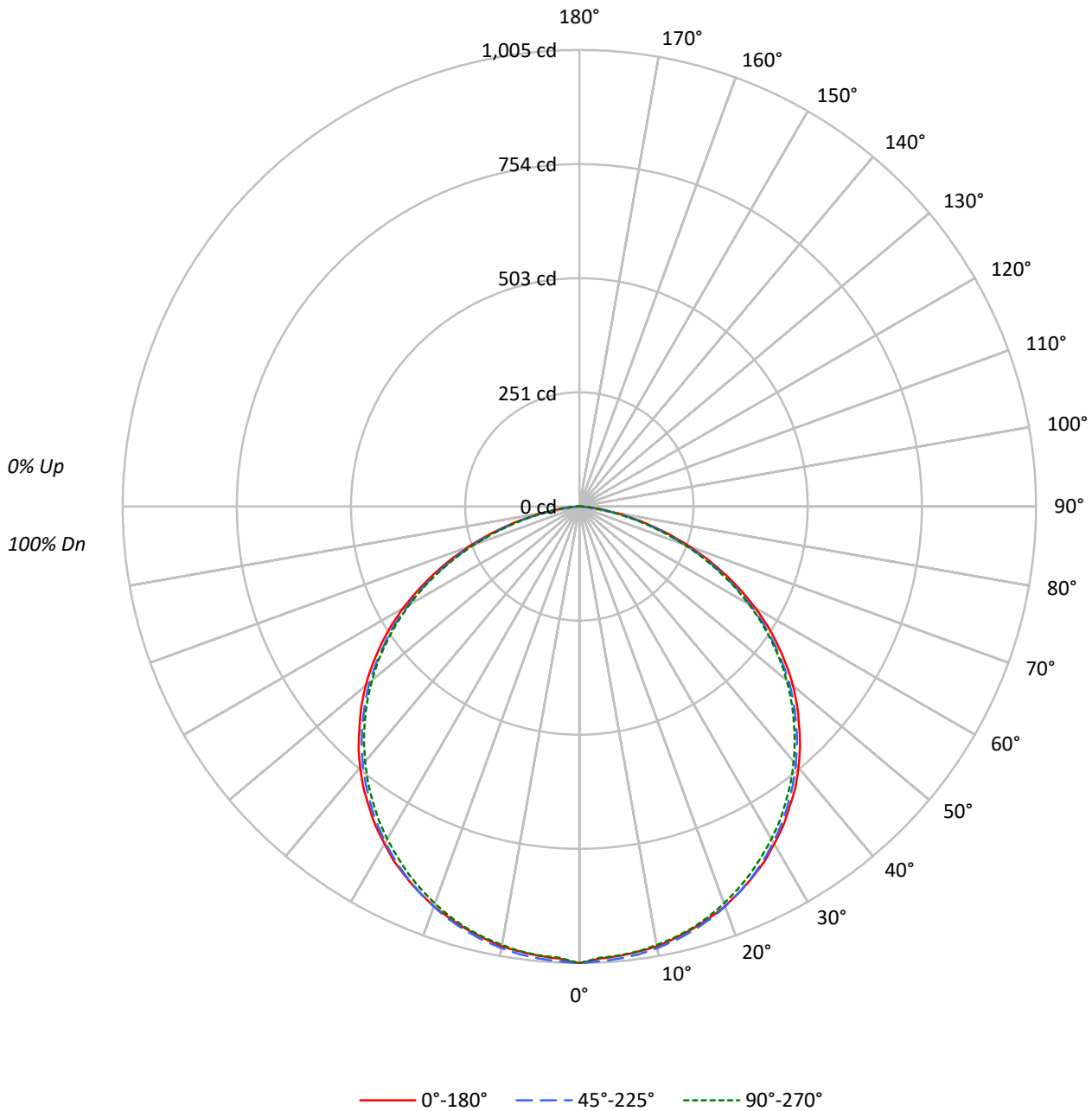
Test Method: LM-79-2019  
Report Number: P973260  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30HE-L850-CP080  
Description: 1\*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 80CRI Clear Polycarbonate (0.080" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2813.9 lumens  
Efficiency: N/A  
Efficacy: 125.6 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): 22.4  
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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### Luminous Intensity Polar Plot





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

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

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

	0°	45°	90°
0°	2706	2706	2706
5°	2684	2700	2681
10°	2687	2698	2679
15°	2683	2693	2677
20°	2682	2685	2664
25°	2676	2671	2647
30°	2665	2653	2628
35°	2651	2630	2604
40°	2636	2603	2577
45°	2603	2567	2540
50°	2570	2523	2493
55°	2505	2446	2423
60°	2407	2341	2320
65°	2255	2188	2165
70°	2033	1951	1935
75°	1705	1618	1601
80°	1238	1155	1122
85°	655	577	528

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2603 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.2	3.4
10°-20°	273.5	9.7
20°-30°	415.5	14.8
30°-40°	502.6	17.9
40°-50°	522.3	18.6
50°-60°	467.7	16.6
60°-70°	341.1	12.1
70°-80°	168.0	6.0
80°-90°	28.1	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°	784.2	27.9
0°-40°	1286.7	45.7
0°-60°	2276.7	80.9
0°-90°	2813.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	994	1004	1000	1009	992	95
15°	963	972	967	975	961	272
25°	901	906	900	904	891	416
35°	807	808	801	804	793	505
45°	684	683	674	676	668	528
55°	534	529	521	520	516	477
65°	354	350	344	341	340	350
75°	164	161	156	154	154	175
85°	21	20	19	17	17	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1005.4	1005.4	1005.4	1005.4	1005.4
2.5°	996.6	1007.9	1002.5	1012.4	994.6
5°	993.7	1004.5	999.5	1009.1	992.5
7.5°	988.7	1000.0	994.6	1003.7	987.9
10°	983.3	993.3	987.5	996.6	980.4
12.5°	973.7	983.7	978.3	986.6	971.7
15°	962.9	971.7	966.7	975.0	960.8
17.5°	950.4	958.8	953.4	960.8	946.7
20°	936.7	943.4	937.5	943.8	930.1
22.5°	919.6	925.9	919.6	923.8	911.7
25°	901.3	905.9	899.7	903.8	891.4
27.5°	881.8	884.3	878.0	881.4	868.5
30°	857.6	860.6	853.9	858.1	845.6
32.5°	834.3	836.0	828.5	831.8	820.6
35°	806.9	808.5	800.6	804.0	792.7
37.5°	780.7	780.2	771.9	774.0	764.4
40°	750.3	749.9	741.1	742.8	733.6
42.5°	719.1	717.4	709.1	709.9	701.6
45°	684.1	683.3	674.5	675.8	667.5
47.5°	650.4	647.9	639.2	639.6	632.5
50°	613.8	610.0	602.6	601.7	595.5
52.5°	574.7	570.5	562.2	561.4	556.8
55°	533.9	529.3	521.4	520.2	516.4
57.5°	491.9	486.0	479.8	477.3	474.4
60°	447.3	441.9	434.9	432.4	431.1
62.5°	401.2	395.7	390.3	387.8	386.2
65°	354.1	350.0	343.7	341.2	340.0
67.5°	306.3	302.5	296.7	293.8	293.4
70°	258.4	254.7	248.0	246.3	245.9
72.5°	210.6	207.2	201.0	199.3	199.3
75°	164.0	161.0	155.6	154.0	154.0
77.5°	119.8	117.3	113.2	111.1	111.1
80°	79.9	78.2	74.5	72.8	72.4
82.5°	46.2	45.4	42.0	40.4	41.2
85°	21.2	20.4	18.7	16.6	17.1
87.5°	5.4	5.0	3.7	2.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)