

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: P973471

Luminaire Tested: FLR2-14-30-L850-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973471  
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-CA080  
Description: 1\*4 FLR-2.0 3000 LUMEN at 5000 CCT & 80CRI with Clear Acrylic (0.080" thickness)  
  
Light Source:  
Ballast/Driver: -

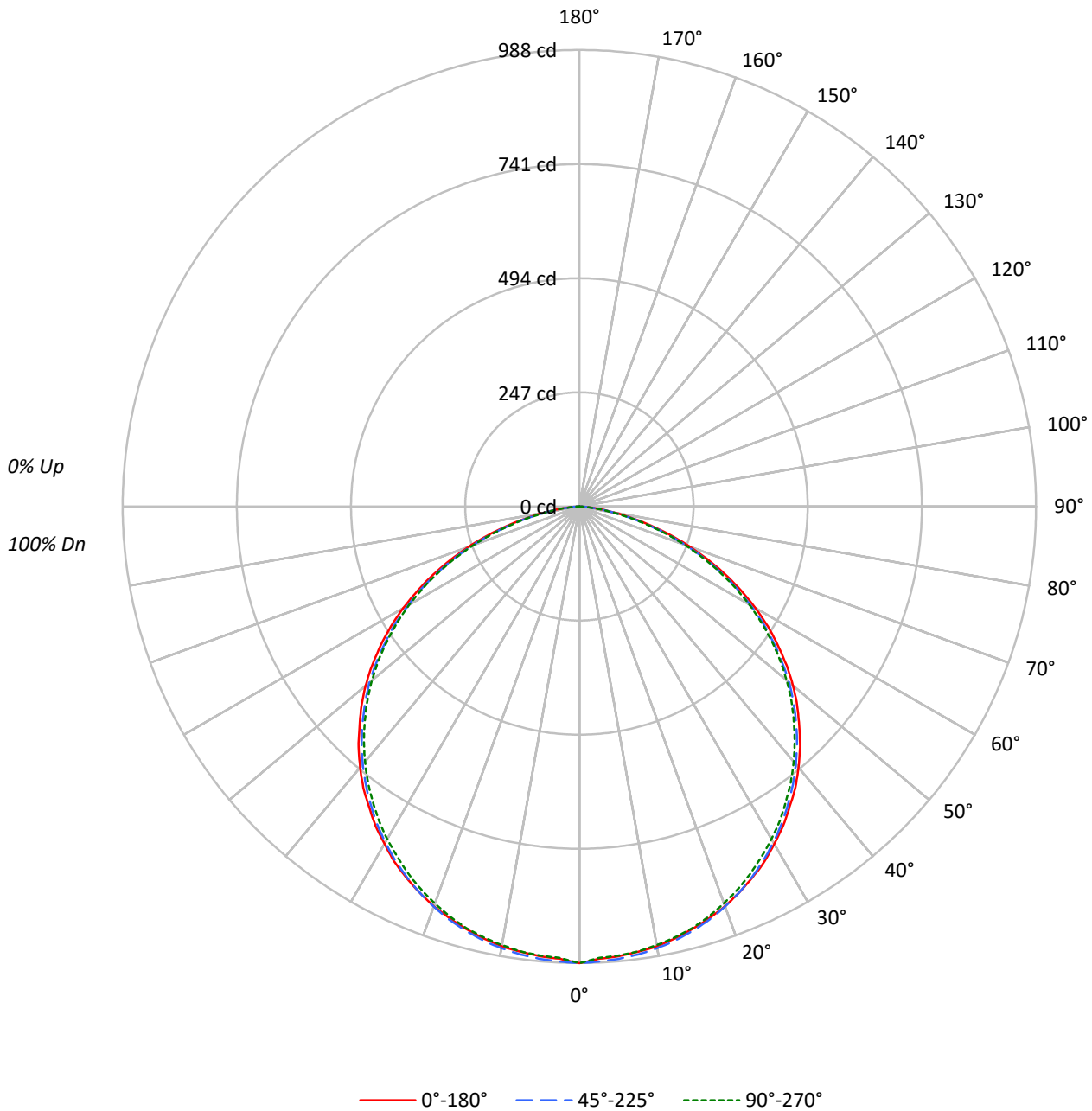
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2766.7 lumens  
Efficiency: N/A  
Efficacy: 115.8 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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### 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	0
RW	70	50	30	10	70	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
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°	2660	2660	2660
5°	2639	2655	2636
10°	2642	2653	2634
15°	2638	2648	2632
20°	2637	2640	2619
25°	2631	2627	2602
30°	2620	2609	2583
35°	2606	2586	2560
40°	2591	2560	2534
45°	2560	2524	2498
50°	2527	2480	2451
55°	2463	2405	2382
60°	2367	2301	2281
65°	2217	2152	2129
70°	1999	1919	1902
75°	1676	1591	1574
80°	1218	1134	1103
85°	645	568	519

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2560 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.6	3.4
10°-20°	268.9	9.7
20°-30°	408.5	14.8
30°-40°	494.2	17.9
40°-50°	513.6	18.6
50°-60°	459.8	16.6
60°-70°	335.4	12.1
70°-80°	165.1	6.0
80°-90°	27.6	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°	771.0	27.9
0°-40°	1265.2	45.7
0°-60°	2238.6	80.9
0°-90°	2766.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	977	988	983	992	976	93
15°	947	955	950	959	945	267
25°	886	891	885	889	876	409
35°	793	795	787	790	779	497
45°	673	672	663	664	656	519
55°	525	520	513	511	508	469
65°	348	344	338	336	334	344
75°	161	158	153	151	151	172
85°	21	20	18	16	17	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	988.5	988.5	988.5	988.5	988.5
2.5°	979.9	991.0	985.7	995.5	977.9
5°	977.1	987.7	982.8	992.2	975.8
7.5°	972.1	983.2	977.9	986.9	971.3
10°	966.8	976.6	970.9	979.9	964.0
12.5°	957.4	967.2	961.9	970.1	955.4
15°	946.8	955.4	950.5	958.6	944.7
17.5°	934.5	942.7	937.4	944.7	930.8
20°	921.0	927.6	921.8	928.0	914.5
22.5°	904.2	910.4	904.2	908.3	896.5
25°	886.2	890.7	884.6	888.7	876.4
27.5°	867.0	869.5	863.3	866.6	853.9
30°	843.3	846.1	839.6	843.7	831.4
32.5°	820.4	822.0	814.6	817.9	806.9
35°	793.3	795.0	787.2	790.5	779.4
37.5°	767.6	767.2	759.0	761.0	751.6
40°	737.7	737.3	728.7	730.3	721.3
42.5°	707.0	705.4	697.2	698.0	689.8
45°	672.6	671.8	663.2	664.5	656.3
47.5°	639.5	637.1	628.5	628.9	621.9
50°	603.5	599.8	592.5	591.6	585.5
52.5°	565.0	560.9	552.8	551.9	547.4
55°	524.9	520.4	512.7	511.4	507.8
57.5°	483.6	477.9	471.8	469.3	466.4
60°	439.8	434.5	427.6	425.1	423.9
62.5°	394.4	389.1	383.8	381.3	379.7
65°	348.2	344.1	338.0	335.5	334.3
67.5°	301.1	297.5	291.7	288.9	288.5
70°	254.1	250.4	243.9	242.2	241.8
72.5°	207.0	203.8	197.6	196.0	196.0
75°	161.2	158.3	153.0	151.4	151.4
77.5°	117.8	115.4	111.3	109.2	109.2
80°	78.6	76.9	73.2	71.6	71.2
82.5°	45.4	44.6	41.3	39.7	40.5
85°	20.9	20.0	18.4	16.4	16.8
87.5°	5.3	4.9	3.7	2.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)