

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: P973474

Luminaire Tested: FLR2-14-30-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973474
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-CA125
Description: 1*4 FLR-2.0 3000 LUMEN at 5000 CCT & 80CRI Clear Acrylic (0.125" thickness)

Light Source:
Ballast/Driver: -

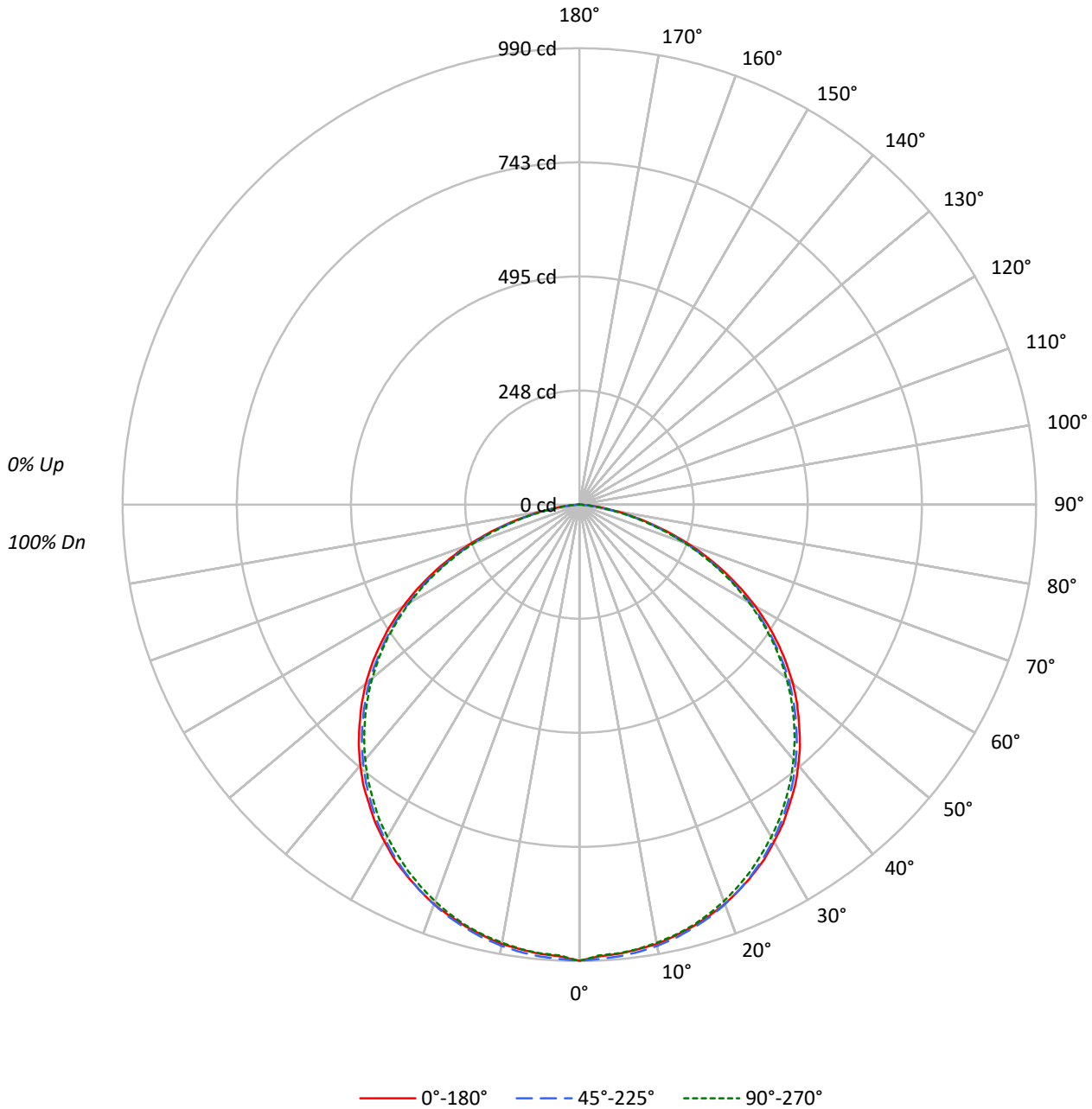
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2769.7 lumens
Efficiency: N/A
Efficacy: 115.9 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										
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	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°	2663	2663	2663
5°	2642	2657	2639
10°	2645	2656	2637
15°	2640	2651	2635
20°	2640	2643	2621
25°	2634	2629	2605
30°	2623	2612	2586
35°	2609	2589	2563
40°	2594	2563	2537
45°	2563	2527	2500
50°	2529	2483	2454
55°	2465	2408	2385
60°	2370	2303	2284
65°	2220	2154	2131
70°	2002	1921	1905
75°	1678	1593	1576
80°	1218	1136	1105
85°	645	568	519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2563 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.4
10°-20°	269.2	9.7
20°-30°	408.9	14.8
30°-40°	494.7	17.9
40°-50°	514.1	18.6
50°-60°	460.3	16.6
60°-70°	335.7	12.1
70°-80°	165.3	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°	771.9	27.9
0°-40°	1266.5	45.7
0°-60°	2241.0	80.9
0°-90°	2769.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2769.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	978	989	984	993	977	93
15°	948	956	952	960	946	268
25°	887	892	886	890	877	409
35°	794	796	788	791	780	497
45°	673	673	664	665	657	520
55°	526	521	513	512	508	469
65°	349	344	338	336	335	344
75°	161	158	153	152	152	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°	989.6	989.6	989.6	989.6	989.6
2.5°	981.0	992.0	986.7	996.5	978.9
5°	978.1	988.8	983.8	993.3	976.9
7.5°	973.2	984.3	978.9	987.9	972.4
10°	967.9	977.7	972.0	981.0	965.0
12.5°	958.5	968.3	963.0	971.1	956.4
15°	947.8	956.4	951.5	959.7	945.8
17.5°	935.5	943.7	938.4	945.8	931.8
20°	922.0	928.6	922.8	929.0	915.4
22.5°	905.2	911.3	905.2	909.3	897.4
25°	887.2	891.7	885.5	889.6	877.4
27.5°	867.9	870.4	864.2	867.5	854.8
30°	844.2	847.0	840.5	844.6	832.3
32.5°	821.2	822.9	815.5	818.8	807.7
35°	794.2	795.8	788.1	791.3	780.3
37.5°	768.4	768.0	759.8	761.8	752.4
40°	738.5	738.1	729.5	731.1	722.1
42.5°	707.8	706.1	697.9	698.8	690.6
45°	673.4	672.6	664.0	665.2	657.0
47.5°	640.2	637.7	629.1	629.5	622.6
50°	604.2	600.5	593.1	592.3	586.1
52.5°	565.7	561.6	553.4	552.5	548.0
55°	525.5	521.0	513.2	512.0	508.3
57.5°	484.1	478.4	472.3	469.8	466.9
60°	440.3	435.0	428.0	425.6	424.3
62.5°	394.8	389.5	384.2	381.7	380.1
65°	348.6	344.5	338.3	335.9	334.6
67.5°	301.5	297.8	292.0	289.2	288.8
70°	254.4	250.7	244.1	242.5	242.1
72.5°	207.3	204.0	197.8	196.2	196.2
75°	161.4	158.5	153.2	151.6	151.6
77.5°	118.0	115.5	111.4	109.4	109.4
80°	78.6	77.0	73.3	71.7	71.3
82.5°	45.5	44.6	41.4	39.7	40.5
85°	20.9	20.1	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)