

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: P973495

Luminaire Tested: FLR2-14-30-L950-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973495  
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-L950-CA125  
Description: 1\*4 FLR-2.0 3000 LUMEN at 5000 CCT & 90 CRI Clear Acrylic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

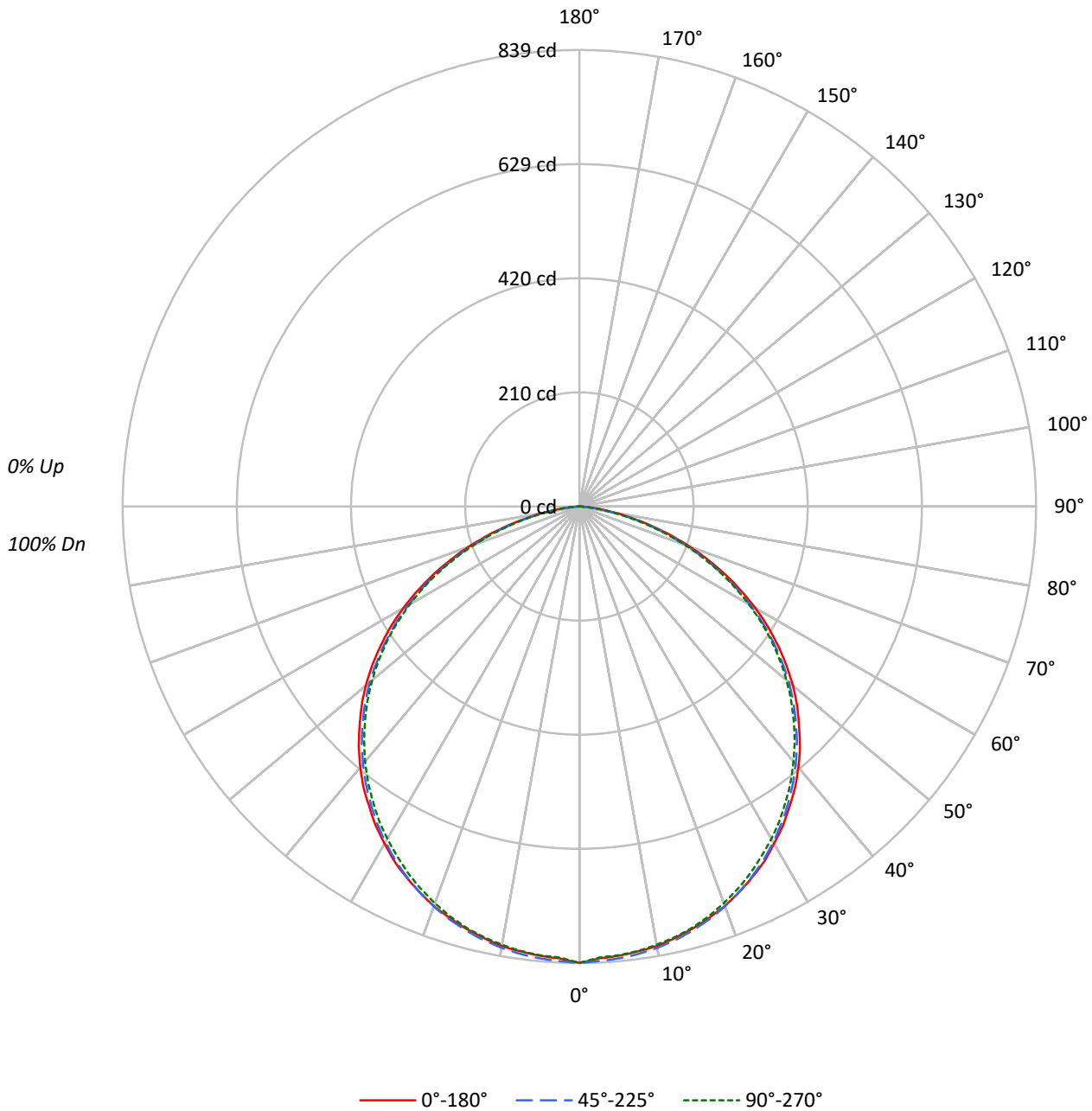
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2347.7 lumens  
Efficiency: N/A  
Efficacy: 98.2 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°	2257	2257	2257
5°	2240	2253	2237
10°	2242	2251	2235
15°	2238	2247	2233
20°	2238	2240	2222
25°	2233	2229	2208
30°	2223	2214	2192
35°	2212	2194	2173
40°	2199	2172	2150
45°	2172	2142	2119
50°	2144	2105	2080
55°	2090	2041	2022
60°	2009	1953	1936
65°	1882	1826	1806
70°	1696	1628	1614
75°	1422	1350	1336
80°	1034	962	936
85°	546	482	438

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2172 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	3.4
10°-20°	228.2	9.7
20°-30°	346.6	14.8
30°-40°	419.3	17.9
40°-50°	435.8	18.6
50°-60°	390.2	16.6
60°-70°	284.6	12.1
70°-80°	140.1	6.0
80°-90°	23.4	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°	654.2	27.9
0°-40°	1073.6	45.7
0°-60°	1899.5	80.9
0°-90°	2347.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	829	838	834	842	828	79
15°	803	811	806	813	802	227
25°	752	756	751	754	744	347
35°	673	675	668	671	661	422
45°	571	570	563	564	557	441
55°	445	442	435	434	431	398
65°	296	292	287	285	284	292
75°	137	134	130	128	128	146
85°	18	17	16	14	14	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	838.8	838.8	838.8	838.8	838.8
2.5°	831.5	840.9	836.4	844.7	829.8
5°	829.1	838.1	833.9	841.9	828.0
7.5°	824.9	834.3	829.8	837.4	824.2
10°	820.4	828.7	823.9	831.5	818.0
12.5°	812.4	820.7	816.2	823.2	810.7
15°	803.4	810.7	806.5	813.4	801.6
17.5°	793.0	799.9	795.4	801.6	789.8
20°	781.5	787.1	782.2	787.4	775.9
22.5°	767.3	772.5	767.3	770.7	760.7
25°	752.0	755.8	750.6	754.1	743.7
27.5°	735.7	737.8	732.6	735.3	724.6
30°	715.5	718.0	712.4	715.9	705.5
32.5°	696.1	697.5	691.2	694.0	684.6
35°	673.2	674.6	668.0	670.8	661.4
37.5°	651.3	651.0	644.0	645.8	637.8
40°	626.0	625.6	618.3	619.7	612.1
42.5°	599.9	598.5	591.6	592.3	585.3
45°	570.8	570.1	562.8	563.8	556.9
47.5°	542.6	540.6	533.3	533.6	527.7
50°	512.1	509.0	502.7	502.0	496.8
52.5°	479.5	476.0	469.0	468.3	464.5
55°	445.4	441.6	435.0	434.0	430.9
57.5°	410.4	405.5	400.3	398.2	395.8
60°	373.2	368.7	362.8	360.7	359.7
62.5°	334.7	330.2	325.7	323.6	322.2
65°	295.5	292.0	286.8	284.7	283.6
67.5°	255.5	252.4	247.5	245.1	244.8
70°	215.6	212.5	206.9	205.5	205.2
72.5°	175.7	172.9	167.7	166.3	166.3
75°	136.8	134.4	129.8	128.5	128.5
77.5°	100.0	97.9	94.4	92.7	92.7
80°	66.7	65.3	62.1	60.8	60.4
82.5°	38.5	37.8	35.1	33.7	34.4
85°	17.7	17.0	15.6	13.9	14.2
87.5°	4.5	4.2	3.1	2.4	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)