

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: P973453

Luminaire Tested: FLR2-14-30-L940-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973453  
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-L940-CA125  
Description: 1\*4 FLR-2.0 3000 LUMEN at 4000 CCT & 90 CRI Clear Acrylic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

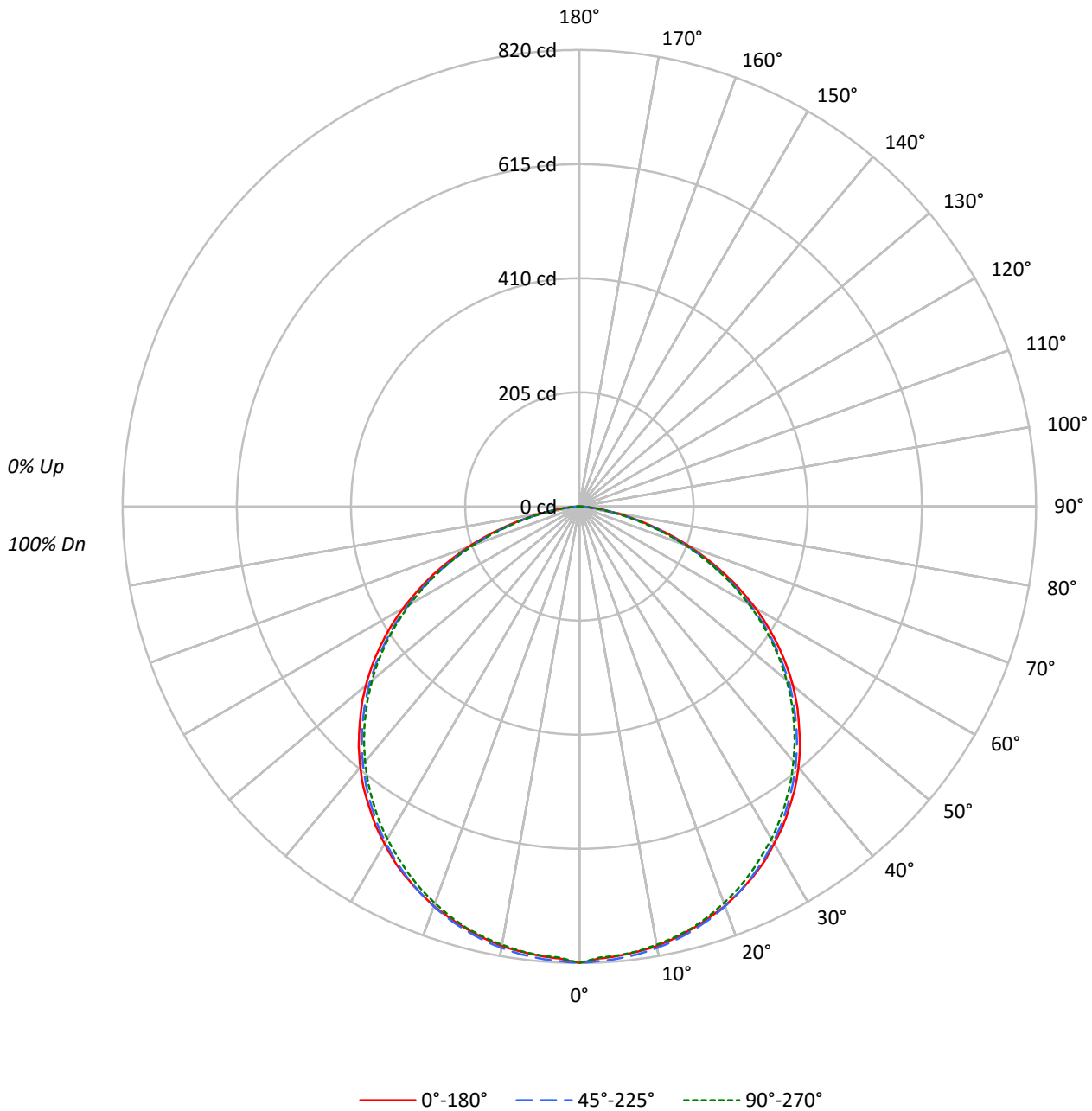
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2294.9 lumens  
Efficiency: N/A  
Efficacy: 96.0 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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### 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°	2206	2206	2206
5°	2189	2202	2186
10°	2191	2200	2185
15°	2188	2196	2183
20°	2188	2190	2172
25°	2183	2178	2158
30°	2174	2164	2143
35°	2162	2145	2124
40°	2149	2123	2102
45°	2123	2093	2072
50°	2096	2057	2033
55°	2043	1995	1976
60°	1963	1909	1892
65°	1839	1785	1766
70°	1659	1592	1578
75°	1390	1319	1306
80°	1010	941	916
85°	534	472	429

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2123 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.7	3.4
10°-20°	223.0	9.7
20°-30°	338.8	14.8
30°-40°	409.9	17.9
40°-50°	426.0	18.6
50°-60°	381.4	16.6
60°-70°	278.2	12.1
70°-80°	137.0	6.0
80°-90°	22.9	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°	639.5	27.9
0°-40°	1049.4	45.7
0°-60°	1856.8	80.9
0°-90°	2294.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2294.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	810	819	815	823	809	77
15°	785	792	788	795	784	222
25°	735	739	734	737	727	339
35°	658	659	653	656	646	412
45°	558	557	550	551	544	431
55°	435	432	425	424	421	389
65°	289	285	280	278	277	285
75°	134	131	127	126	126	143
85°	17	17	15	14	14	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	819.9	819.9	819.9	819.9	819.9
2.5°	812.8	822.0	817.6	825.7	811.1
5°	810.4	819.3	815.2	823.0	809.4
7.5°	806.4	815.5	811.1	818.6	805.7
10°	802.0	810.1	805.3	812.8	799.6
12.5°	794.1	802.3	797.9	804.7	792.4
15°	785.3	792.4	788.4	795.2	783.6
17.5°	775.1	781.9	777.5	783.6	772.1
20°	763.9	769.4	764.6	769.7	758.5
22.5°	750.0	755.1	750.0	753.4	743.6
25°	735.1	738.8	733.7	737.1	726.9
27.5°	719.1	721.2	716.1	718.8	708.3
30°	699.5	701.8	696.4	699.8	689.6
32.5°	680.5	681.8	675.7	678.4	669.3
35°	658.1	659.4	653.0	655.7	646.5
37.5°	636.7	636.3	629.5	631.2	623.4
40°	611.9	611.6	604.4	605.8	598.3
42.5°	586.4	585.1	578.3	579.0	572.2
45°	557.9	557.3	550.1	551.2	544.4
47.5°	530.4	528.4	521.3	521.6	515.9
50°	500.6	497.5	491.4	490.7	485.7
52.5°	468.7	465.3	458.5	457.8	454.1
55°	435.4	431.7	425.2	424.2	421.2
57.5°	401.1	396.4	391.3	389.3	386.9
60°	364.8	360.4	354.7	352.6	351.6
62.5°	327.2	322.7	318.3	316.3	314.9
65°	288.8	285.4	280.3	278.3	277.3
67.5°	249.8	246.7	242.0	239.6	239.3
70°	210.8	207.7	202.3	200.9	200.6
72.5°	171.7	169.0	163.9	162.6	162.6
75°	133.7	131.3	126.9	125.6	125.6
77.5°	97.7	95.7	92.3	90.6	90.6
80°	65.2	63.8	60.7	59.4	59.1
82.5°	37.7	37.0	34.3	32.9	33.6
85°	17.3	16.6	15.3	13.6	13.9
87.5°	4.4	4.1	3.1	2.4	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)