

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: P974443

Luminaire Tested: FLR2-24-35-L850-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-24-35-L850-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-35-L850-CA125  
Ballast/Driver: -

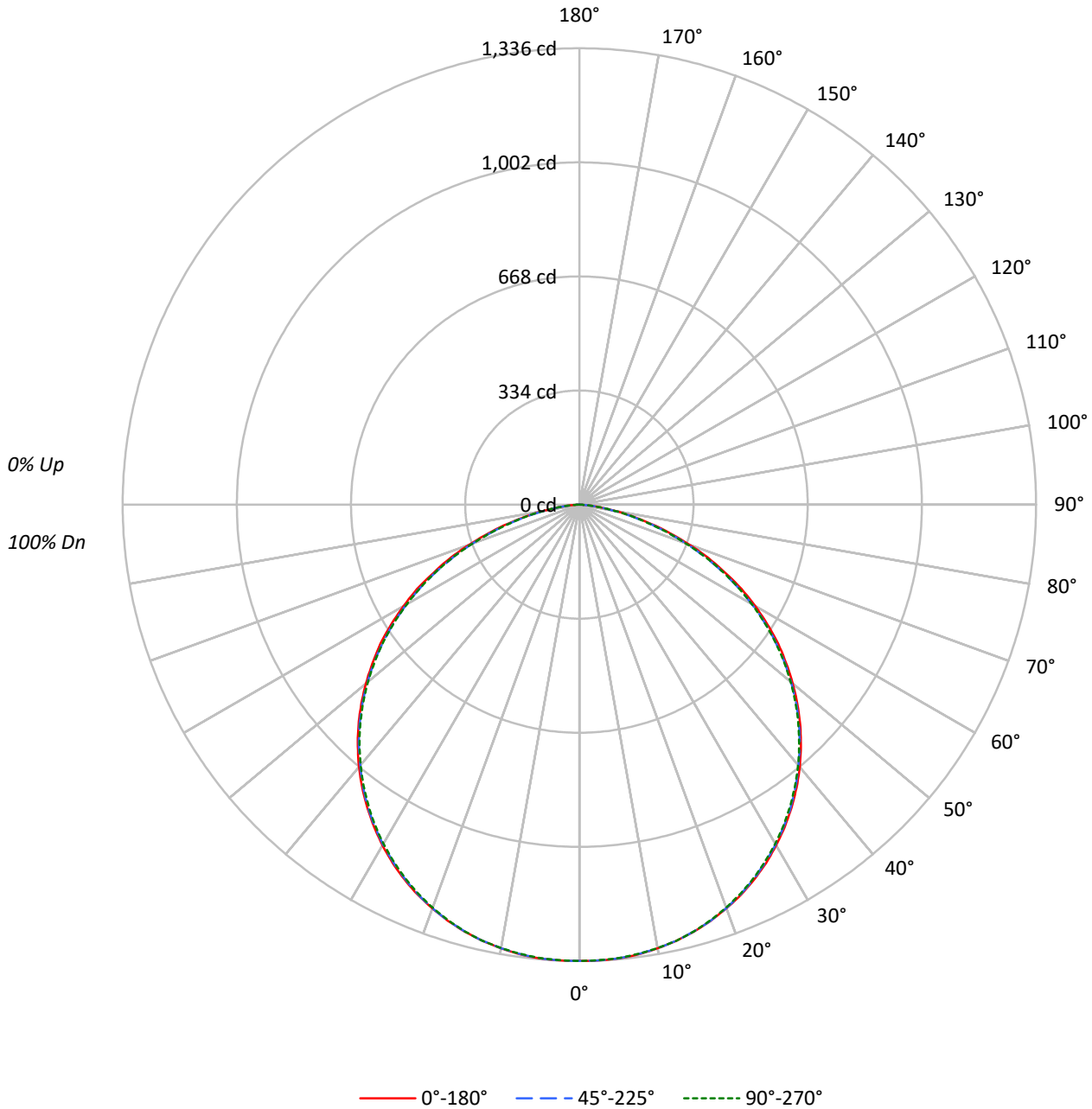
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3775.6 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.4  
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				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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

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

	0°	45°	90°
0°	1797	1797	1797
5°	1801	1801	1800
10°	1802	1802	1801
15°	1803	1802	1802
20°	1801	1800	1798
25°	1798	1794	1791
30°	1789	1784	1781
35°	1778	1773	1767
40°	1762	1751	1749
45°	1739	1729	1724
50°	1707	1694	1689
55°	1666	1643	1640
60°	1597	1569	1569
65°	1494	1459	1464
70°	1345	1303	1299
75°	1129	1084	1079
80°	824	783	817
85°	466	429	437

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1739 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.8	3.4
10°-20°	365.3	9.7
20°-30°	557.0	14.8
30°-40°	674.8	17.9
40°-50°	700.9	18.6
50°-60°	627.0	16.6
60°-70°	457.0	12.1
70°-80°	226.3	6.0
80°-90°	40.4	1.1
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°	1049.1	27.8
0°-40°	1723.9	45.7
0°-60°	3051.9	80.8
0°-90°	3775.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3775.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1334	1334	1334	1334	1332	127
15°	1294	1294	1294	1295	1294	365
25°	1211	1209	1208	1208	1206	558
35°	1082	1081	1080	1078	1076	677
45°	914	912	909	907	906	704
55°	710	705	700	700	699	633
65°	469	465	458	460	460	465
75°	217	214	208	212	208	232
85°	30	28	28	28	28	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1335.9	1335.9	1335.9	1335.9	1335.9
2.5°	1335.9	1335.4	1335.4	1335.9	1334.9
5°	1333.5	1334.0	1333.5	1333.5	1332.5
7.5°	1328.2	1327.7	1327.3	1327.7	1326.3
10°	1319.1	1319.1	1318.6	1319.1	1318.2
12.5°	1308.1	1308.1	1308.1	1308.6	1308.1
15°	1294.2	1293.7	1293.7	1294.7	1293.7
17.5°	1277.9	1277.4	1277.4	1276.9	1276.0
20°	1257.8	1257.8	1257.3	1256.8	1255.4
22.5°	1236.2	1235.7	1234.3	1234.3	1232.4
25°	1210.8	1209.3	1208.4	1207.9	1206.5
27.5°	1183.0	1181.1	1179.6	1178.7	1177.2
30°	1151.8	1149.9	1148.5	1147.0	1146.1
32.5°	1118.3	1117.3	1114.9	1114.4	1112.5
35°	1082.3	1080.9	1079.5	1077.5	1075.6
37.5°	1044.0	1042.5	1039.2	1038.2	1036.8
40°	1003.2	1001.3	997.0	997.0	995.6
42.5°	959.6	957.7	954.8	952.9	951.9
45°	914.1	912.2	908.8	906.9	905.9
47.5°	865.7	864.2	860.4	859.0	857.5
50°	815.3	813.4	809.1	808.2	806.7
52.5°	762.6	761.7	755.9	755.4	754.0
55°	710.4	705.1	700.3	700.3	699.3
57.5°	652.8	649.0	642.8	642.8	641.8
60°	593.4	590.1	582.9	583.8	582.9
62.5°	535.4	528.2	521.5	524.4	522.0
65°	469.3	465.4	458.2	460.2	459.7
67.5°	408.9	401.7	395.0	398.8	396.9
70°	341.8	337.9	331.2	335.1	330.3
72.5°	278.5	275.1	268.4	272.7	267.9
75°	217.1	213.8	208.5	212.3	207.5
77.5°	159.1	156.7	151.9	155.8	156.7
80°	106.4	103.5	101.1	104.5	105.5
82.5°	62.3	60.4	59.4	59.9	62.3
85°	30.2	27.8	27.8	28.3	28.3
87.5°	8.1	7.2	8.1	8.6	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)