

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: P973684

Luminaire Tested: FLR2-22-45-L850-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-45-L850-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

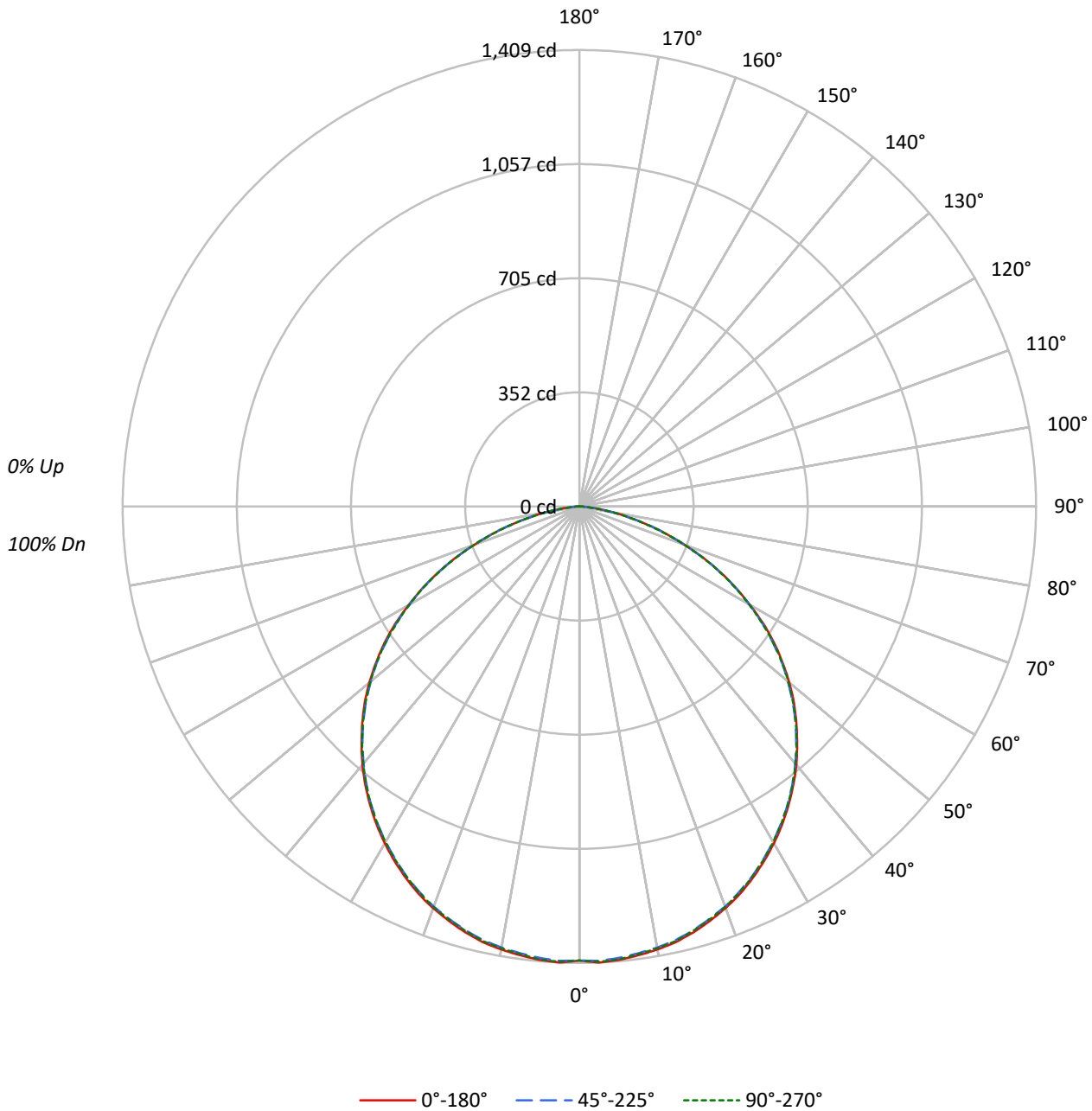
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3919.6 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.1  
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	63	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	71	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	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	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	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

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

	0°	45°	90°
0°	3772	3772	3772
5°	3796	3779	3791
10°	3794	3778	3785
15°	3791	3774	3779
20°	3778	3763	3768
25°	3758	3743	3745
30°	3731	3715	3718
35°	3697	3683	3686
40°	3659	3640	3643
45°	3604	3588	3594
50°	3541	3515	3523
55°	3440	3412	3424
60°	3271	3257	3257
65°	3054	3048	3037
70°	2704	2718	2711
75°	2277	2259	2242
80°	1636	1610	1596
85°	855	855	827

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3604 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.7	3.4
10°-20°	381.7	9.7
20°-30°	580.0	14.8
30°-40°	701.1	17.9
40°-50°	727.7	18.6
50°-60°	650.5	16.6
60°-70°	473.0	12.1
70°-80°	232.6	5.9
80°-90°	40.3	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°	1094.4	27.9
0°-40°	1795.4	45.8
0°-60°	3173.7	81.0
0°-90°	3919.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3919.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1405	1389	1399	1394	1403	134
15°	1361	1345	1355	1351	1357	384
25°	1266	1252	1260	1258	1261	583
35°	1125	1118	1121	1122	1122	704
45°	947	943	943	944	944	731
55°	733	729	727	729	730	654
65°	480	481	479	479	477	473
75°	219	221	217	218	216	233
85°	28	29	28	28	27	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1401.6	1401.6	1401.6	1401.6	1401.6
2.5°	1409.4	1392.9	1403.3	1397.3	1406.8
5°	1405.1	1388.6	1399.0	1393.8	1403.3
7.5°	1397.3	1380.8	1391.2	1386.0	1393.8
10°	1388.6	1371.3	1382.5	1377.3	1385.1
12.5°	1377.3	1360.9	1371.3	1367.0	1373.9
15°	1360.9	1345.3	1354.8	1351.4	1356.6
17.5°	1341.0	1325.4	1334.9	1332.3	1336.7
20°	1319.3	1304.6	1314.2	1311.6	1315.9
22.5°	1295.1	1279.5	1288.2	1286.4	1289.9
25°	1265.7	1251.8	1260.5	1257.9	1261.3
27.5°	1234.5	1221.5	1228.4	1228.4	1230.2
30°	1200.7	1188.6	1195.5	1195.5	1196.4
32.5°	1164.4	1154.9	1159.2	1160.1	1160.1
35°	1125.4	1117.6	1121.1	1122.0	1122.0
37.5°	1084.7	1076.9	1079.5	1081.3	1081.3
40°	1041.5	1034.5	1036.3	1038.0	1037.1
42.5°	994.7	989.5	990.4	992.1	992.1
45°	947.1	942.8	942.8	944.5	944.5
47.5°	898.6	894.3	892.5	894.3	894.3
50°	845.8	841.5	839.7	841.5	841.5
52.5°	790.4	786.1	786.1	786.1	786.9
55°	733.3	728.9	727.2	728.9	729.8
57.5°	672.7	670.9	668.3	669.2	666.6
60°	607.7	607.7	605.1	606.9	605.1
62.5°	544.5	546.3	543.7	543.7	541.9
65°	479.6	481.3	478.7	478.7	477.0
67.5°	412.9	415.5	412.1	412.1	410.3
70°	343.7	348.9	345.4	346.3	344.6
72.5°	281.4	284.0	280.5	280.5	278.8
75°	219.0	220.8	217.3	218.2	215.6
77.5°	157.6	160.2	156.7	157.6	156.7
80°	105.6	106.5	103.9	104.8	103.0
82.5°	61.5	62.3	61.5	60.6	59.7
85°	27.7	28.6	27.7	27.7	26.8
87.5°	6.9	6.9	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)