

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: P973628

Luminaire Tested: FLR2-22-45-L840-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973628  
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-L840-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

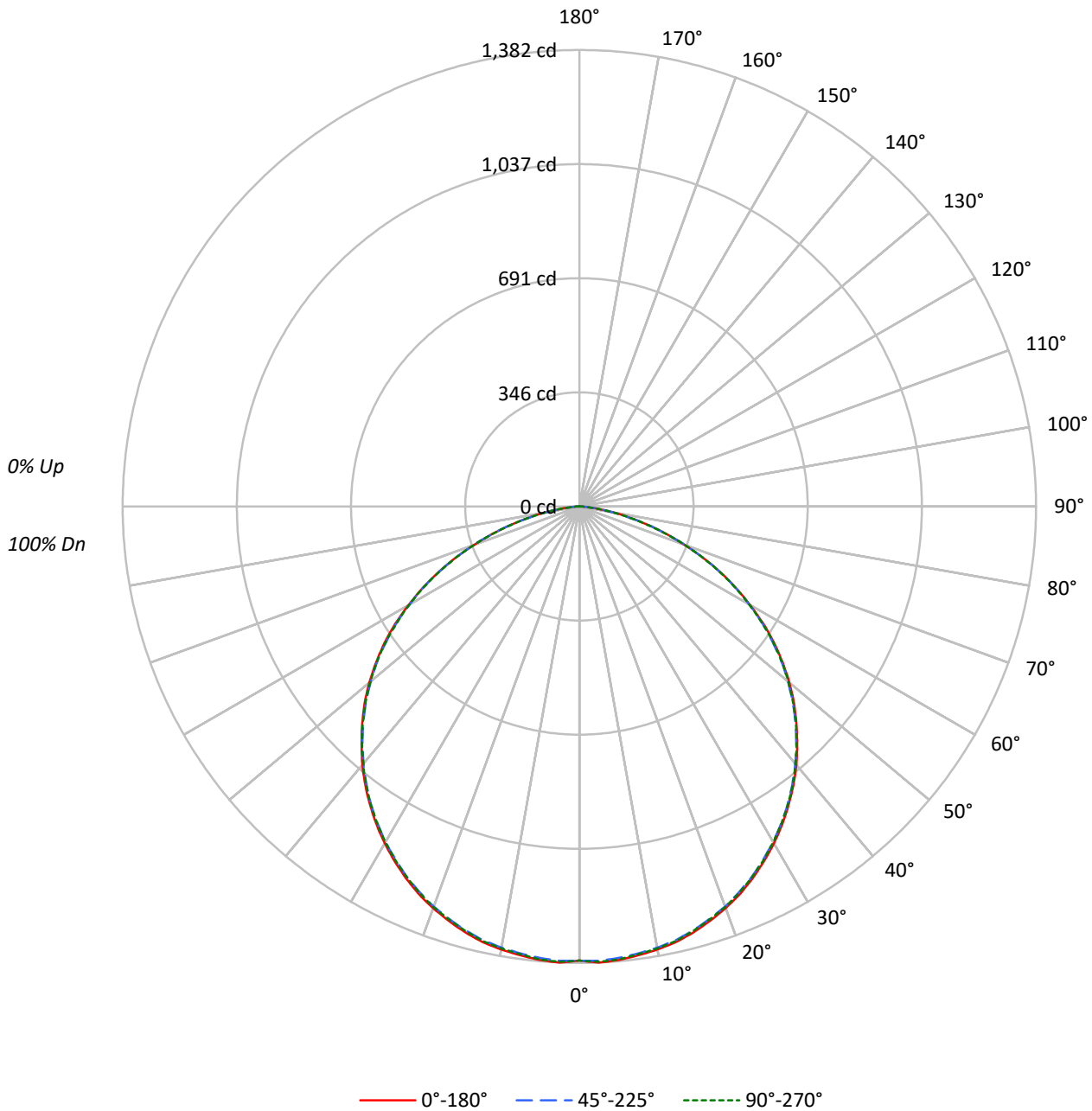
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3844.9 lumens  
Efficiency: N/A  
Efficacy: 106.5 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°	3700	3700	3700
5°	3723	3707	3719
10°	3722	3706	3713
15°	3719	3702	3707
20°	3706	3692	3696
25°	3687	3671	3674
30°	3660	3644	3647
35°	3627	3613	3616
40°	3589	3571	3574
45°	3535	3519	3526
50°	3473	3448	3455
55°	3375	3347	3359
60°	3209	3195	3195
65°	2996	2990	2979
70°	2652	2666	2659
75°	2234	2217	2199
80°	1605	1579	1567
85°	840	840	812

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3535 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.2	3.4
10°-20°	374.4	9.7
20°-30°	569.0	14.8
30°-40°	687.7	17.9
40°-50°	713.8	18.6
50°-60°	638.1	16.6
60°-70°	464.0	12.1
70°-80°	228.2	5.9
80°-90°	39.6	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°	1073.5	27.9
0°-40°	1761.2	45.8
0°-60°	3113.2	81.0
0°-90°	3844.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1378	1362	1372	1367	1377	131
15°	1335	1320	1329	1326	1331	377
25°	1242	1228	1236	1234	1237	572
35°	1104	1096	1100	1101	1101	691
45°	929	925	925	926	926	717
55°	719	715	713	715	716	641
65°	470	472	470	470	468	464
75°	215	217	213	214	212	228
85°	27	28	27	27	26	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1374.9	1374.9	1374.9	1374.9	1374.9
2.5°	1382.5	1366.4	1376.6	1370.6	1380.0
5°	1378.3	1362.2	1372.3	1367.2	1376.6
7.5°	1370.6	1354.5	1364.7	1359.6	1367.2
10°	1362.2	1345.2	1356.2	1351.1	1358.8
12.5°	1351.1	1335.0	1345.2	1340.9	1347.7
15°	1335.0	1319.7	1329.0	1325.6	1330.7
17.5°	1315.4	1300.2	1309.5	1307.0	1311.2
20°	1294.2	1279.8	1289.1	1286.6	1290.8
22.5°	1270.4	1255.2	1263.6	1261.9	1265.3
25°	1241.6	1228.0	1236.5	1233.9	1237.3
27.5°	1211.0	1198.3	1205.0	1205.0	1206.7
30°	1177.9	1166.0	1172.8	1172.8	1173.6
32.5°	1142.2	1132.9	1137.1	1138.0	1138.0
35°	1104.0	1096.3	1099.7	1100.6	1100.6
37.5°	1064.1	1056.4	1059.0	1060.7	1060.7
40°	1021.6	1014.8	1016.5	1018.2	1017.4
42.5°	975.8	970.7	971.5	973.2	973.2
45°	929.0	924.8	924.8	926.5	926.5
47.5°	881.5	877.2	875.5	877.2	877.2
50°	829.7	825.4	823.7	825.4	825.4
52.5°	775.3	771.1	771.1	771.1	771.9
55°	719.3	715.0	713.3	715.0	715.9
57.5°	659.8	658.1	655.6	656.4	653.9
60°	596.2	596.2	593.6	595.3	593.6
62.5°	534.2	535.9	533.3	533.3	531.6
65°	470.5	472.2	469.6	469.6	467.9
67.5°	405.1	407.6	404.2	404.2	402.5
70°	337.1	342.2	338.8	339.7	338.0
72.5°	276.0	278.5	275.1	275.1	273.4
75°	214.9	216.6	213.2	214.0	211.5
77.5°	154.6	157.1	153.7	154.6	153.7
80°	103.6	104.5	101.9	102.8	101.1
82.5°	60.3	61.1	60.3	59.4	58.6
85°	27.2	28.0	27.2	27.2	26.3
87.5°	6.8	6.8	6.8	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)