

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: P973833

Luminaire Tested: FLR2-22-50HE-L835-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973833  
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: FLR2-22-50HE-L835-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

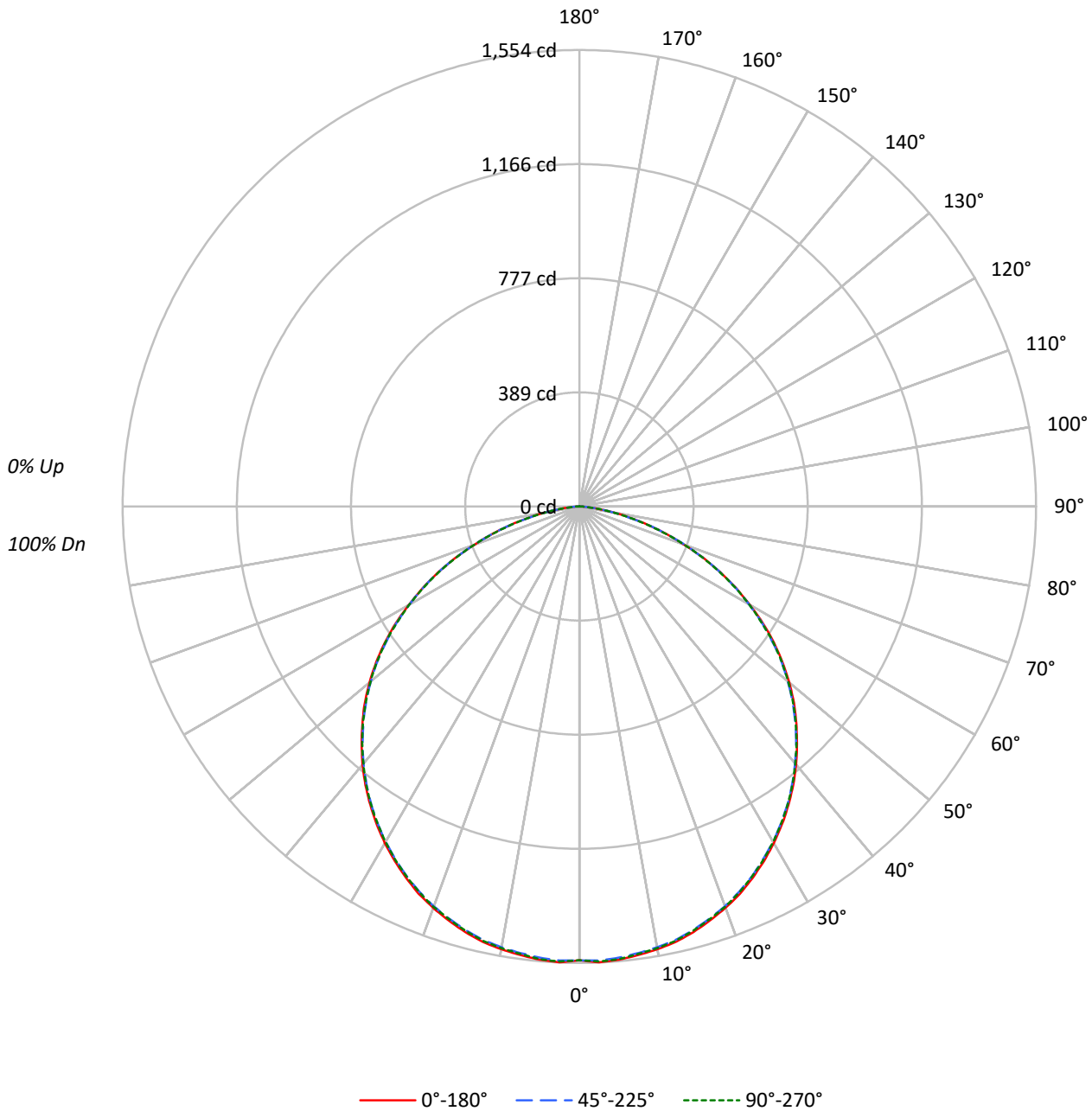
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4320.6 lumens  
Efficiency: N/A  
Efficacy: 108.0 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): 40  
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	63	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	71	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	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	32	27	39	32	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	4158	4158	4158
5°	4184	4166	4179
10°	4183	4164	4172
15°	4179	4160	4166
20°	4165	4148	4154
25°	4143	4125	4128
30°	4113	4095	4098
35°	4075	4060	4063
40°	4033	4013	4016
45°	3973	3955	3962
50°	3903	3875	3883
55°	3792	3761	3774
60°	3605	3590	3590
65°	3366	3360	3348
70°	2980	2996	2988
75°	2510	2490	2470
80°	1804	1774	1760
85°	942	942	914

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3973 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.3	3.4
10°-20°	420.7	9.7
20°-30°	639.3	14.8
30°-40°	772.8	17.9
40°-50°	802.1	18.6
50°-60°	717.1	16.6
60°-70°	521.4	12.1
70°-80°	256.4	5.9
80°-90°	44.5	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°	1206.4	27.9
0°-40°	1979.1	45.8
0°-60°	3498.3	81.0
0°-90°	4320.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1545	1545	1545	1545	1545	
5°	1549	1531	1542	1536	1547	147
15°	1500	1483	1493	1490	1495	423
25°	1395	1380	1389	1387	1390	643
35°	1241	1232	1236	1237	1237	776
45°	1044	1039	1039	1041	1041	805
55°	808	804	802	804	804	720
65°	529	531	528	528	526	521
75°	241	243	240	240	238	256
85°	30	32	30	30	30	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	1553.6	1535.4	1546.9	1540.2	1550.7
5°	1548.8	1530.7	1542.1	1536.4	1546.9
7.5°	1540.2	1522.1	1533.5	1527.8	1536.4
10°	1530.7	1511.6	1524.0	1518.3	1526.8
12.5°	1518.3	1500.1	1511.6	1506.8	1514.4
15°	1500.1	1482.9	1493.4	1489.6	1495.4
17.5°	1478.2	1461.0	1471.5	1468.6	1473.4
20°	1454.3	1438.1	1448.6	1445.7	1450.5
22.5°	1427.6	1410.4	1420.0	1418.1	1421.9
25°	1395.2	1379.9	1389.4	1386.6	1390.4
27.5°	1360.8	1346.5	1354.1	1354.1	1356.0
30°	1323.6	1310.2	1317.9	1317.9	1318.8
32.5°	1283.5	1273.0	1277.8	1278.7	1278.7
35°	1240.6	1232.0	1235.8	1236.7	1236.7
37.5°	1195.7	1187.1	1190.0	1191.9	1191.9
40°	1148.0	1140.4	1142.3	1144.2	1143.2
42.5°	1096.5	1090.7	1091.7	1093.6	1093.6
45°	1044.0	1039.2	1039.2	1041.1	1041.1
47.5°	990.5	985.8	983.9	985.8	985.8
50°	932.3	927.6	925.6	927.6	927.6
52.5°	871.3	866.5	866.5	866.5	867.4
55°	808.3	803.5	801.6	803.5	804.5
57.5°	741.5	739.6	736.7	737.7	734.8
60°	669.9	669.9	667.0	668.9	667.0
62.5°	600.2	602.1	599.3	599.3	597.4
65°	528.7	530.6	527.7	527.7	525.8
67.5°	455.2	458.1	454.2	454.2	452.3
70°	378.8	384.6	380.8	381.7	379.8
72.5°	310.1	313.0	309.2	309.2	307.3
75°	241.4	243.3	239.5	240.5	237.6
77.5°	173.7	176.5	172.7	173.7	172.7
80°	116.4	117.4	114.5	115.5	113.6
82.5°	67.8	68.7	67.8	66.8	65.8
85°	30.5	31.5	30.5	30.5	29.6
87.5°	7.6	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)