

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: P973560

Luminaire Tested: FLR2-22-45-L835-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973560  
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-L835-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

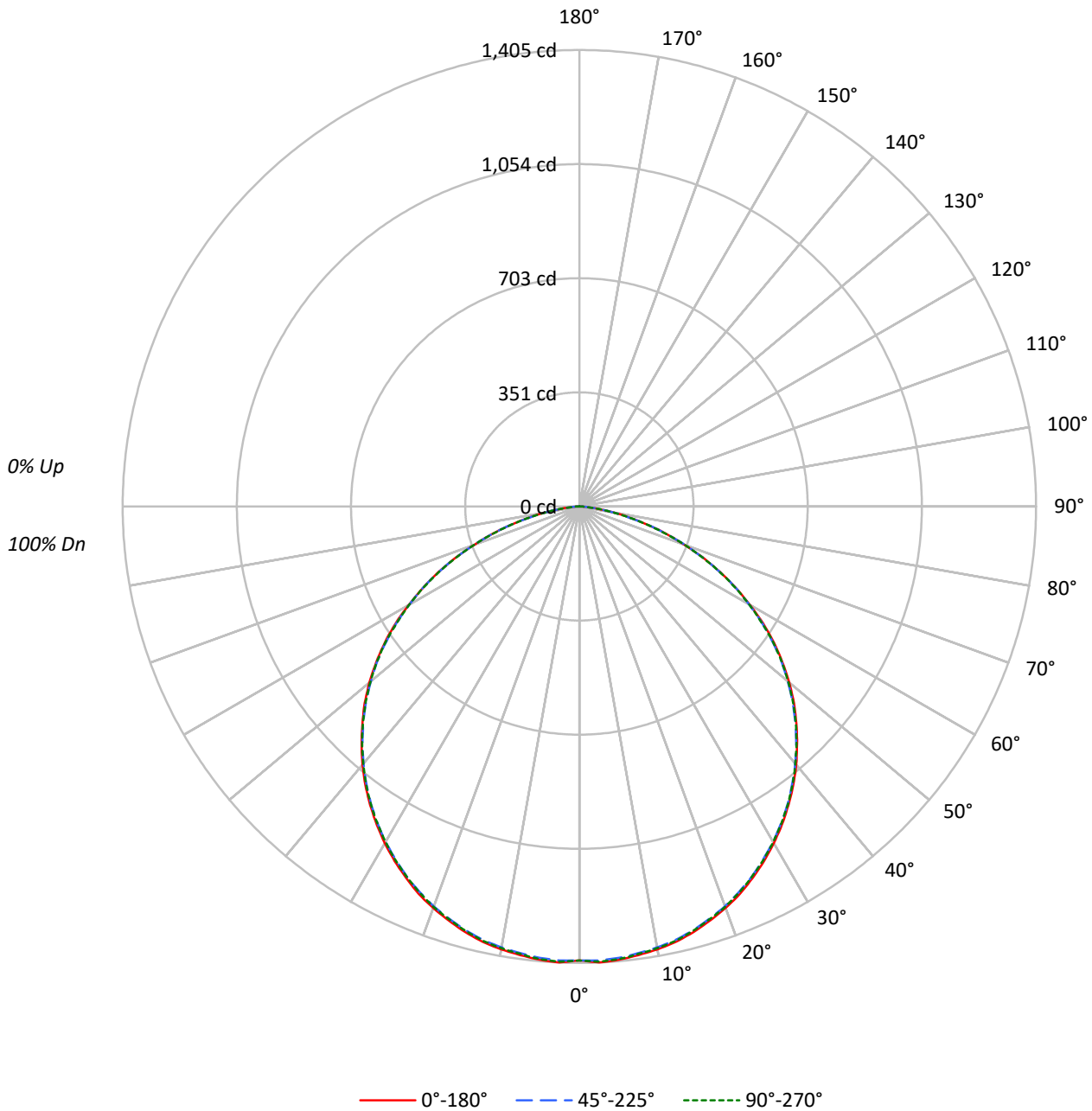
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3907.3 lumens  
Efficiency: N/A  
Efficacy: 108.2 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				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°	3760	3760	3760
5°	3784	3767	3779
10°	3783	3766	3773
15°	3779	3763	3767
20°	3766	3751	3757
25°	3746	3731	3733
30°	3719	3703	3706
35°	3686	3671	3674
40°	3647	3629	3632
45°	3593	3577	3583
50°	3530	3504	3512
55°	3430	3401	3413
60°	3260	3246	3246
65°	3044	3039	3028
70°	2696	2709	2703
75°	2270	2252	2234
80°	1632	1605	1592
85°	852	852	827

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3593 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.3	3.4
10°-20°	380.5	9.7
20°-30°	578.2	14.8
30°-40°	698.9	17.9
40°-50°	725.4	18.6
50°-60°	648.5	16.6
60°-70°	471.5	12.1
70°-80°	231.9	5.9
80°-90°	40.2	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°	1091.0	27.9
0°-40°	1789.8	45.8
0°-60°	3163.7	81.0
0°-90°	3907.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3907.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1401	1384	1395	1389	1399	133
15°	1357	1341	1351	1347	1352	383
25°	1262	1248	1256	1254	1257	582
35°	1122	1114	1118	1118	1118	702
45°	944	940	940	942	942	728
55°	731	727	725	727	728	652
65°	478	480	477	477	476	472
75°	218	220	217	218	215	232
85°	28	28	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°	1397.2	1397.2	1397.2	1397.2	1397.2
2.5°	1405.0	1388.6	1398.9	1392.9	1402.4
5°	1400.7	1384.3	1394.6	1389.4	1398.9
7.5°	1392.9	1376.5	1386.9	1381.7	1389.4
10°	1384.3	1367.0	1378.2	1373.0	1380.8
12.5°	1373.0	1356.6	1367.0	1362.7	1369.6
15°	1356.6	1341.1	1350.6	1347.2	1352.3
17.5°	1336.8	1321.3	1330.8	1328.2	1332.5
20°	1315.2	1300.6	1310.0	1307.5	1311.8
22.5°	1291.1	1275.5	1284.2	1282.4	1285.9
25°	1261.7	1247.9	1256.5	1254.0	1257.4
27.5°	1230.6	1217.7	1224.6	1224.6	1226.3
30°	1197.0	1184.9	1191.8	1191.8	1192.7
32.5°	1160.7	1151.3	1155.6	1156.4	1156.4
35°	1121.9	1114.1	1117.6	1118.5	1118.5
37.5°	1081.3	1073.6	1076.2	1077.9	1077.9
40°	1038.2	1031.3	1033.0	1034.7	1033.9
42.5°	991.6	986.4	987.3	989.0	989.0
45°	944.1	939.8	939.8	941.5	941.5
47.5°	895.8	891.5	889.8	891.5	891.5
50°	843.2	838.8	837.1	838.8	838.8
52.5°	787.9	783.6	783.6	783.6	784.5
55°	731.0	726.7	724.9	726.7	727.5
57.5°	670.6	668.8	666.2	667.1	664.5
60°	605.8	605.8	603.2	605.0	603.2
62.5°	542.8	544.6	542.0	542.0	540.2
65°	478.1	479.8	477.2	477.2	475.5
67.5°	411.7	414.2	410.8	410.8	409.1
70°	342.6	347.8	344.3	345.2	343.5
72.5°	280.5	283.1	279.6	279.6	277.9
75°	218.3	220.1	216.6	217.5	214.9
77.5°	157.1	159.7	156.2	157.1	156.2
80°	105.3	106.2	103.6	104.4	102.7
82.5°	61.3	62.1	61.3	60.4	59.5
85°	27.6	28.5	27.6	27.6	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)