

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: P973814

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

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973814  
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: FLR2-22-45HE-L835-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

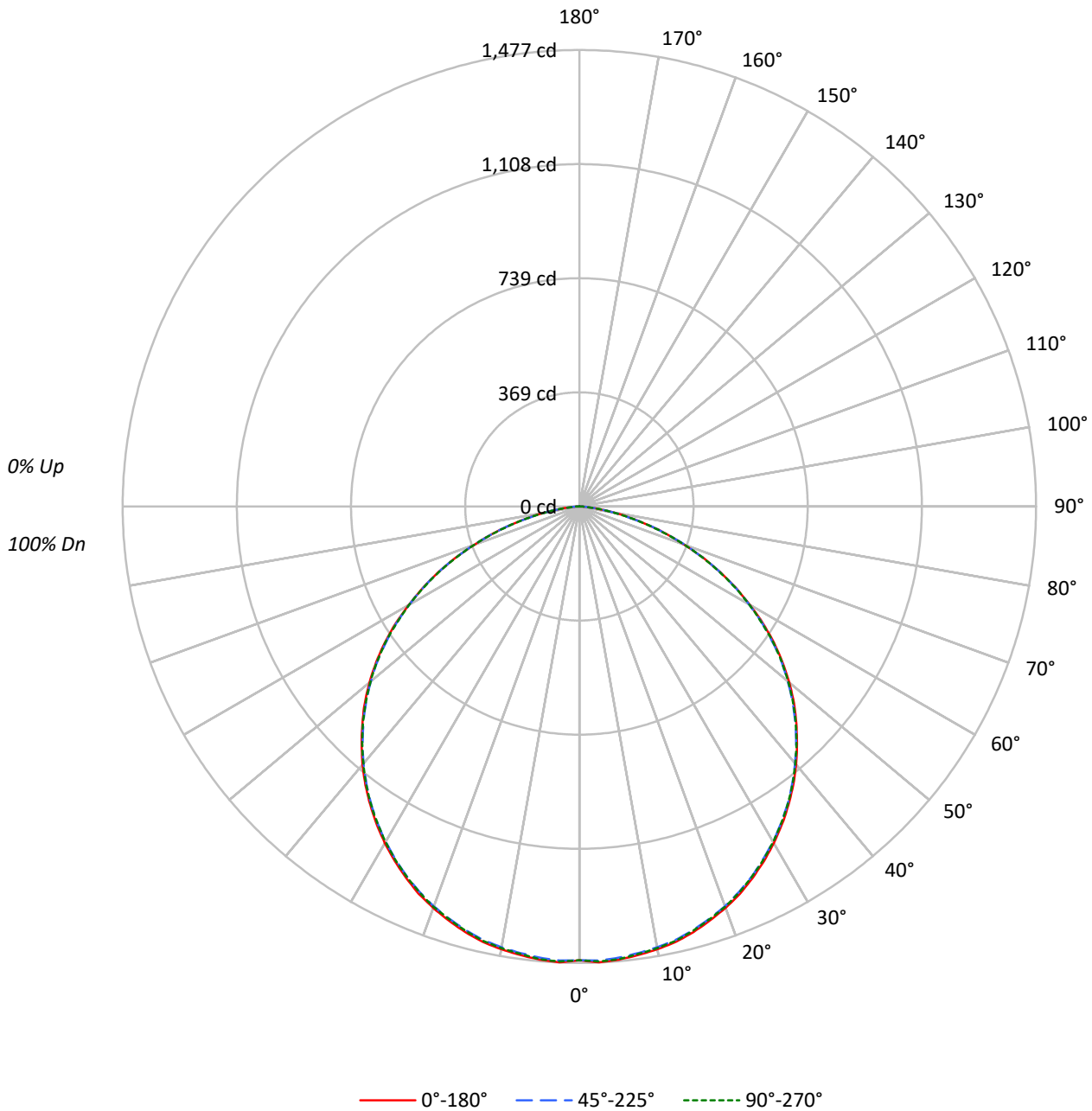
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4106.5 lumens  
Efficiency: N/A  
Efficacy: 113.4 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): 36.2  
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°	3951	3951	3951
5°	3976	3959	3971
10°	3975	3958	3965
15°	3972	3954	3960
20°	3958	3943	3948
25°	3937	3921	3924
30°	3909	3892	3895
35°	3873	3859	3862
40°	3833	3814	3817
45°	3776	3759	3766
50°	3710	3683	3691
55°	3604	3575	3587
60°	3427	3412	3412
65°	3200	3194	3182
70°	2833	2847	2840
75°	2386	2367	2348
80°	1715	1686	1672
85°	895	895	868

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3776 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.0	3.4
10°-20°	399.9	9.7
20°-30°	607.7	14.8
30°-40°	734.5	17.9
40°-50°	762.4	18.6
50°-60°	681.6	16.6
60°-70°	495.6	12.1
70°-80°	243.7	5.9
80°-90°	42.3	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°	1146.6	27.9
0°-40°	1881.1	45.8
0°-60°	3325.0	81.0
0°-90°	4106.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4106.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1472	1455	1466	1460	1470	140
15°	1426	1410	1419	1416	1421	402
25°	1326	1312	1321	1318	1322	611
35°	1179	1171	1175	1176	1176	738
45°	992	988	988	990	990	765
55°	768	764	762	764	765	685
65°	502	504	502	502	500	496
75°	230	231	228	229	226	244
85°	29	30	29	29	28	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1468.4	1468.4	1468.4	1468.4	1468.4
2.5°	1476.6	1459.3	1470.2	1463.9	1473.9
5°	1472.0	1454.8	1465.7	1460.3	1470.2
7.5°	1463.9	1446.7	1457.5	1452.1	1460.3
10°	1454.8	1436.7	1448.5	1443.0	1451.2
12.5°	1443.0	1425.8	1436.7	1432.1	1439.4
15°	1425.8	1409.5	1419.4	1415.8	1421.3
17.5°	1404.9	1388.6	1398.6	1395.9	1400.4
20°	1382.3	1366.8	1376.8	1374.1	1378.6
22.5°	1356.9	1340.5	1349.6	1347.8	1351.4
25°	1326.0	1311.5	1320.6	1317.9	1321.5
27.5°	1293.4	1279.8	1287.0	1287.0	1288.8
30°	1258.0	1245.3	1252.6	1252.6	1253.5
32.5°	1219.9	1209.9	1214.5	1215.4	1215.4
35°	1179.1	1170.9	1174.6	1175.5	1175.5
37.5°	1136.5	1128.3	1131.0	1132.8	1132.8
40°	1091.1	1083.9	1085.7	1087.5	1086.6
42.5°	1042.1	1036.7	1037.6	1039.4	1039.4
45°	992.2	987.7	987.7	989.5	989.5
47.5°	941.5	936.9	935.1	936.9	936.9
50°	886.1	881.6	879.8	881.6	881.6
52.5°	828.1	823.5	823.5	823.5	824.5
55°	768.2	763.7	761.9	763.7	764.6
57.5°	704.7	702.9	700.2	701.1	698.4
60°	636.7	636.7	634.0	635.8	634.0
62.5°	570.5	572.3	569.6	569.6	567.8
65°	502.5	504.3	501.6	501.6	499.8
67.5°	432.6	435.4	431.7	431.7	429.9
70°	360.1	365.5	361.9	362.8	361.0
72.5°	294.8	297.5	293.9	293.9	292.1
75°	229.5	231.3	227.7	228.6	225.8
77.5°	165.1	167.8	164.2	165.1	164.2
80°	110.7	111.6	108.8	109.7	107.9
82.5°	64.4	65.3	64.4	63.5	62.6
85°	29.0	29.9	29.0	29.0	28.1
87.5°	7.3	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)