

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: P973815

Luminaire Tested: FLR2-22-50HE-L835-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973815  
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-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

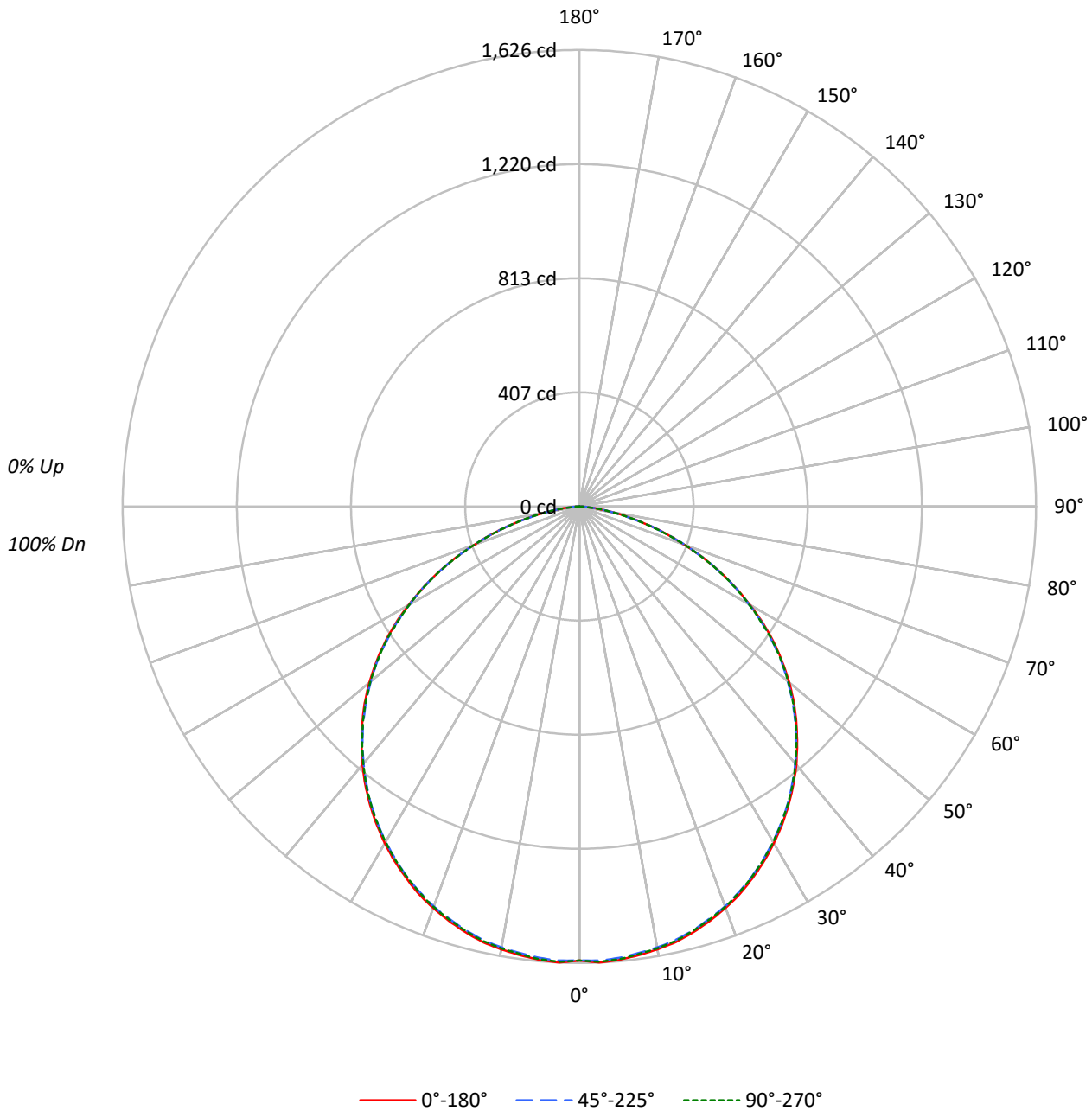
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4522.4 lumens  
Efficiency: N/A  
Efficacy: 113.1 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										
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																				
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°	4352	4352	4352
5°	4379	4360	4374
10°	4378	4359	4367
15°	4374	4355	4361
20°	4359	4342	4348
25°	4336	4318	4321
30°	4305	4286	4289
35°	4266	4249	4253
40°	4221	4200	4203
45°	4159	4140	4147
50°	4086	4056	4065
55°	3969	3936	3950
60°	3774	3758	3758
65°	3524	3517	3505
70°	3120	3135	3127
75°	2627	2607	2586
80°	1889	1858	1843
85°	988	988	957

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4159 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.1	3.4
10°-20°	440.4	9.7
20°-30°	669.2	14.8
30°-40°	808.9	17.9
40°-50°	839.6	18.6
50°-60°	750.6	16.6
60°-70°	545.8	12.1
70°-80°	268.4	5.9
80°-90°	46.6	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°	1262.7	27.9
0°-40°	2071.6	45.8
0°-60°	3661.8	81.0
0°-90°	4522.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4522.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1621	1602	1614	1608	1619	154
15°	1570	1552	1563	1559	1565	443
25°	1460	1444	1454	1451	1455	673
35°	1298	1290	1294	1294	1294	812
45°	1093	1088	1088	1090	1090	843
55°	846	841	839	841	842	754
65°	553	555	552	552	550	546
75°	253	255	251	252	249	268
85°	32	33	32	32	31	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1626.1	1607.2	1619.2	1612.2	1623.2
5°	1621.2	1602.2	1614.2	1608.2	1619.2
7.5°	1612.2	1593.2	1605.2	1599.2	1608.2
10°	1602.2	1582.2	1595.2	1589.2	1598.2
12.5°	1589.2	1570.2	1582.2	1577.2	1585.2
15°	1570.2	1552.2	1563.2	1559.2	1565.2
17.5°	1547.2	1529.3	1540.2	1537.2	1542.2
20°	1522.3	1505.3	1516.3	1513.3	1518.3
22.5°	1494.3	1476.3	1486.3	1484.3	1488.3
25°	1460.3	1444.4	1454.3	1451.3	1455.3
27.5°	1424.4	1409.4	1417.4	1417.4	1419.4
30°	1385.4	1371.4	1379.4	1379.4	1380.4
32.5°	1343.5	1332.5	1337.5	1338.5	1338.5
35°	1298.5	1289.5	1293.5	1294.5	1294.5
37.5°	1251.6	1242.6	1245.6	1247.6	1247.6
40°	1201.6	1193.6	1195.6	1197.6	1196.6
42.5°	1147.7	1141.7	1142.7	1144.7	1144.7
45°	1092.8	1087.8	1087.8	1089.8	1089.8
47.5°	1036.8	1031.8	1029.8	1031.8	1031.8
50°	975.9	970.9	968.9	970.9	970.9
52.5°	912.0	907.0	907.0	907.0	908.0
55°	846.0	841.0	839.0	841.0	842.0
57.5°	776.1	774.1	771.1	772.1	769.1
60°	701.2	701.2	698.2	700.2	698.2
62.5°	628.3	630.3	627.3	627.3	625.3
65°	553.4	555.4	552.4	552.4	550.4
67.5°	476.5	479.5	475.5	475.5	473.5
70°	396.5	402.5	398.5	399.5	397.5
72.5°	324.6	327.6	323.6	323.6	321.6
75°	252.7	254.7	250.7	251.7	248.7
77.5°	181.8	184.8	180.8	181.8	180.8
80°	121.9	122.9	119.9	120.9	118.9
82.5°	70.9	71.9	70.9	69.9	68.9
85°	32.0	33.0	32.0	32.0	31.0
87.5°	8.0	8.0	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)