

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: P973863

Luminaire Tested: FLR2-22-50HE-L935-CP187

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973863  
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-L935-CP187  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

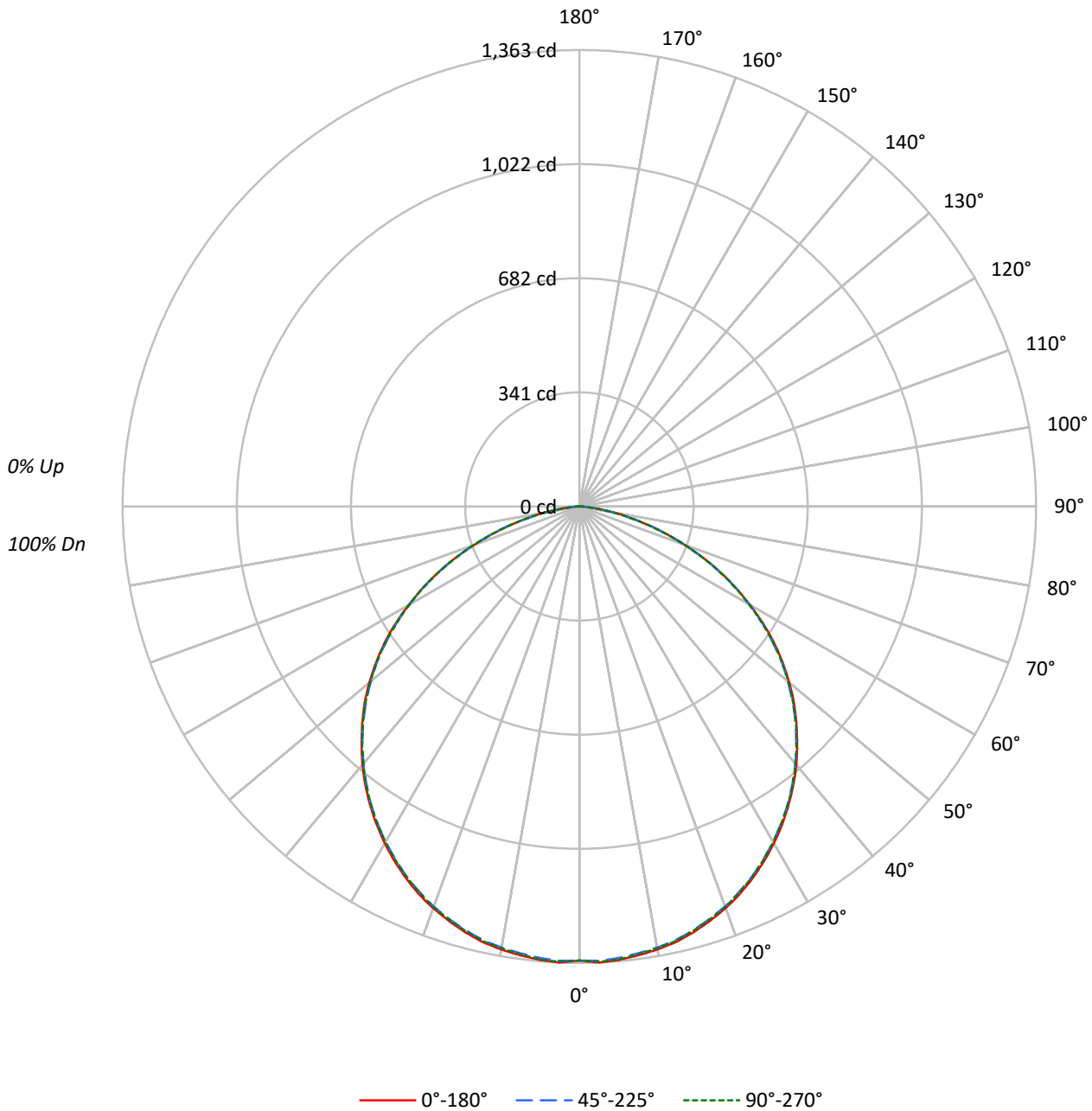
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3791.5 lumens  
Efficiency: N/A  
Efficacy: 94.8 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						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°	3648	3648	3648
5°	3671	3656	3667
10°	3670	3654	3661
15°	3667	3651	3656
20°	3655	3640	3645
25°	3635	3620	3623
30°	3609	3594	3596
35°	3576	3563	3565
40°	3539	3521	3524
45°	3486	3471	3477
50°	3425	3401	3408
55°	3328	3300	3312
60°	3164	3151	3151
65°	2954	2949	2938
70°	2616	2629	2622
75°	2203	2185	2168
80°	1584	1557	1545
85°	827	827	803

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3486 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.4	3.4
10°-20°	369.2	9.7
20°-30°	561.1	14.8
30°-40°	678.1	17.9
40°-50°	703.9	18.6
50°-60°	629.3	16.6
60°-70°	457.5	12.1
70°-80°	225.0	5.9
80°-90°	39.0	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°	1058.6	27.9
0°-40°	1736.8	45.8
0°-60°	3070.0	81.0
0°-90°	3791.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3791.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1359	1343	1353	1348	1358	129
15°	1316	1301	1311	1307	1312	371
25°	1224	1211	1219	1217	1220	564
35°	1089	1081	1084	1085	1085	681
45°	916	912	912	914	914	707
55°	709	705	703	705	706	632
65°	464	466	463	463	461	458
75°	212	214	210	211	208	225
85°	27	28	27	27	26	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1355.8	1355.8	1355.8	1355.8	1355.8
2.5°	1363.3	1347.4	1357.5	1351.6	1360.8
5°	1359.1	1343.2	1353.3	1348.2	1357.5
7.5°	1351.6	1335.7	1345.7	1340.7	1348.2
10°	1343.2	1326.5	1337.4	1332.3	1339.9
12.5°	1332.3	1316.4	1326.5	1322.3	1329.0
15°	1316.4	1301.4	1310.6	1307.2	1312.2
17.5°	1297.2	1282.1	1291.3	1288.8	1293.0
20°	1276.2	1262.0	1271.2	1268.7	1272.9
22.5°	1252.8	1237.7	1246.1	1244.4	1247.8
25°	1224.3	1210.9	1219.3	1216.8	1220.1
27.5°	1194.2	1181.6	1188.3	1188.3	1190.0
30°	1161.5	1149.8	1156.5	1156.5	1157.3
32.5°	1126.3	1117.1	1121.3	1122.1	1122.1
35°	1088.6	1081.1	1084.5	1085.3	1085.3
37.5°	1049.3	1041.8	1044.3	1045.9	1045.9
40°	1007.4	1000.7	1002.4	1004.1	1003.2
42.5°	962.2	957.2	958.0	959.7	959.7
45°	916.1	912.0	912.0	913.6	913.6
47.5°	869.2	865.1	863.4	865.1	865.1
50°	818.2	814.0	812.3	814.0	814.0
52.5°	764.6	760.4	760.4	760.4	761.2
55°	709.3	705.1	703.4	705.1	705.9
57.5°	650.7	649.0	646.5	647.3	644.8
60°	587.9	587.9	585.4	587.0	585.4
62.5°	526.7	528.4	525.9	525.9	524.2
65°	463.9	465.6	463.1	463.1	461.4
67.5°	399.5	402.0	398.6	398.6	396.9
70°	332.5	337.5	334.1	335.0	333.3
72.5°	272.2	274.7	271.3	271.3	269.6
75°	211.9	213.5	210.2	211.0	208.5
77.5°	152.4	154.9	151.6	152.4	151.6
80°	102.2	103.0	100.5	101.3	99.7
82.5°	59.5	60.3	59.5	58.6	57.8
85°	26.8	27.6	26.8	26.8	26.0
87.5°	6.7	6.7	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)