

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: P973887

Luminaire Tested: FLR2-22-50HE-L935-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973887  
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-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

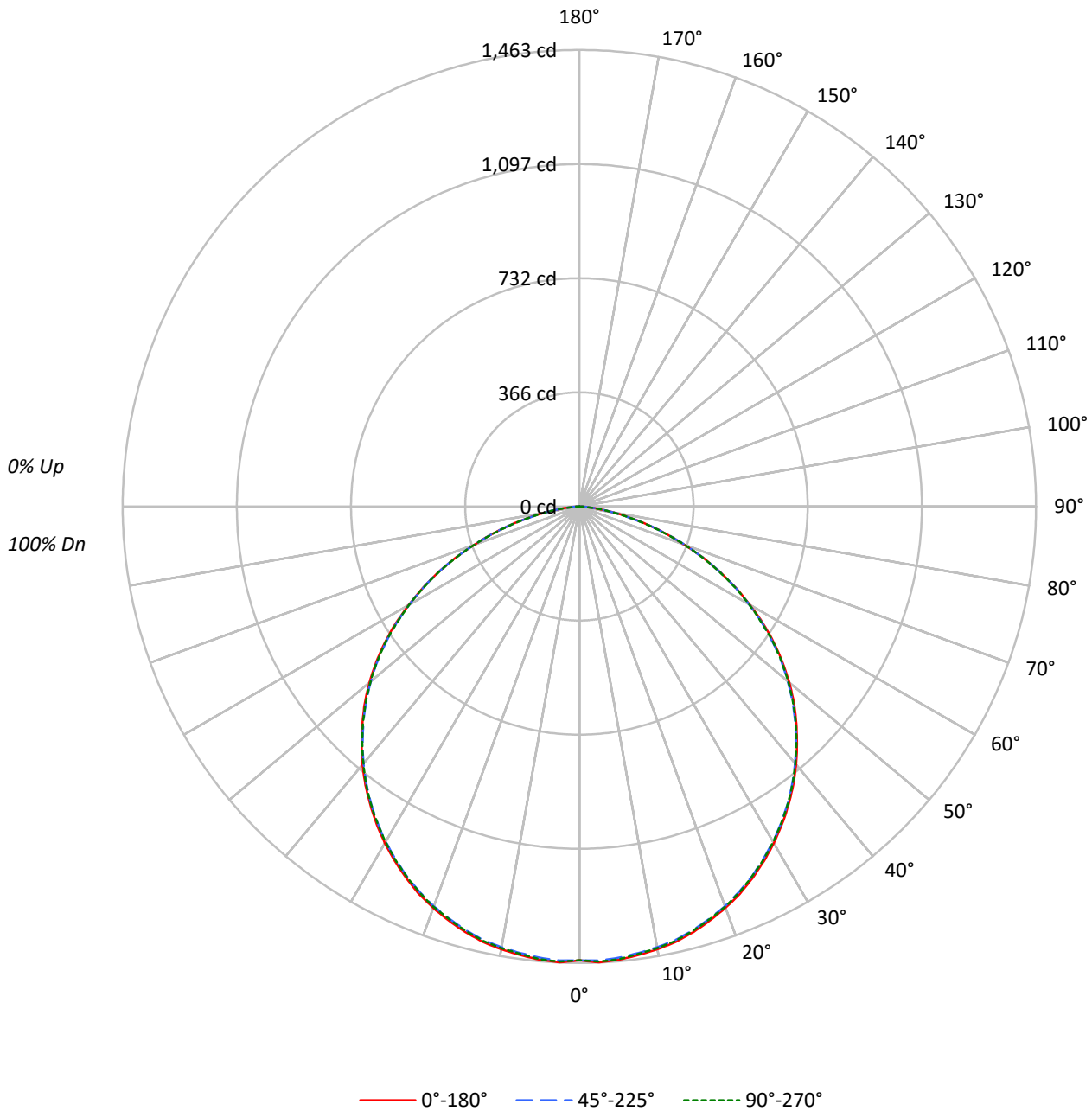
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4067.5 lumens  
Efficiency: N/A  
Efficacy: 101.7 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°	3914	3914	3914
5°	3939	3922	3934
10°	3938	3920	3928
15°	3934	3917	3922
20°	3921	3905	3910
25°	3900	3884	3886
30°	3872	3855	3858
35°	3837	3822	3825
40°	3796	3778	3781
45°	3740	3723	3730
50°	3674	3648	3656
55°	3570	3540	3553
60°	3394	3380	3380
65°	3169	3163	3152
70°	2806	2821	2814
75°	2363	2345	2326
80°	1698	1671	1657
85°	886	886	858

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3740 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.7	3.4
10°-20°	396.1	9.7
20°-30°	601.9	14.8
30°-40°	727.5	17.9
40°-50°	755.1	18.6
50°-60°	675.1	16.6
60°-70°	490.8	12.1
70°-80°	241.4	5.9
80°-90°	41.9	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°	1135.7	27.9
0°-40°	1863.2	45.8
0°-60°	3293.4	81.0
0°-90°	4067.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1458	1441	1452	1446	1456	139
15°	1412	1396	1406	1402	1408	398
25°	1313	1299	1308	1305	1309	605
35°	1168	1160	1163	1164	1164	731
45°	983	978	978	980	980	758
55°	761	756	755	756	757	678
65°	498	500	497	497	495	491
75°	227	229	226	226	224	241
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°	1454.5	1454.5	1454.5	1454.5	1454.5
2.5°	1462.6	1445.5	1456.3	1450.0	1459.9
5°	1458.1	1441.0	1451.8	1446.4	1456.3
7.5°	1450.0	1432.9	1443.7	1438.3	1446.4
10°	1441.0	1423.0	1434.7	1429.3	1437.4
12.5°	1429.3	1412.2	1423.0	1418.5	1425.7
15°	1412.2	1396.1	1406.0	1402.4	1407.8
17.5°	1391.6	1375.4	1385.3	1382.6	1387.1
20°	1369.1	1353.9	1363.7	1361.0	1365.5
22.5°	1344.0	1327.8	1336.8	1335.0	1338.6
25°	1313.4	1299.1	1308.0	1305.3	1308.9
27.5°	1281.1	1267.6	1274.8	1274.8	1276.6
30°	1246.1	1233.5	1240.7	1240.7	1241.6
32.5°	1208.3	1198.4	1202.9	1203.8	1203.8
35°	1167.9	1159.8	1163.4	1164.3	1164.3
37.5°	1125.7	1117.6	1120.3	1122.1	1122.1
40°	1080.7	1073.6	1075.4	1077.2	1076.3
42.5°	1032.2	1026.8	1027.7	1029.5	1029.5
45°	982.8	978.3	978.3	980.1	980.1
47.5°	932.5	928.0	926.2	928.0	928.0
50°	877.7	873.2	871.4	873.2	873.2
52.5°	820.2	815.7	815.7	815.7	816.6
55°	760.9	756.4	754.6	756.4	757.3
57.5°	698.0	696.2	693.5	694.4	691.8
60°	630.7	630.7	628.0	629.8	628.0
62.5°	565.1	566.9	564.2	564.2	562.4
65°	497.7	499.5	496.8	496.8	495.0
67.5°	428.5	431.2	427.6	427.6	425.8
70°	356.7	362.0	358.5	359.4	357.6
72.5°	292.0	294.7	291.1	291.1	289.3
75°	227.3	229.1	225.5	226.4	223.7
77.5°	163.5	166.2	162.6	163.5	162.6
80°	109.6	110.5	107.8	108.7	106.9
82.5°	63.8	64.7	63.8	62.9	62.0
85°	28.7	29.6	28.7	28.7	27.8
87.5°	7.2	7.2	7.2	7.2	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)