

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: P974043

Luminaire Tested: FLR2-22-50HE-L950-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974043  
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-L950-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

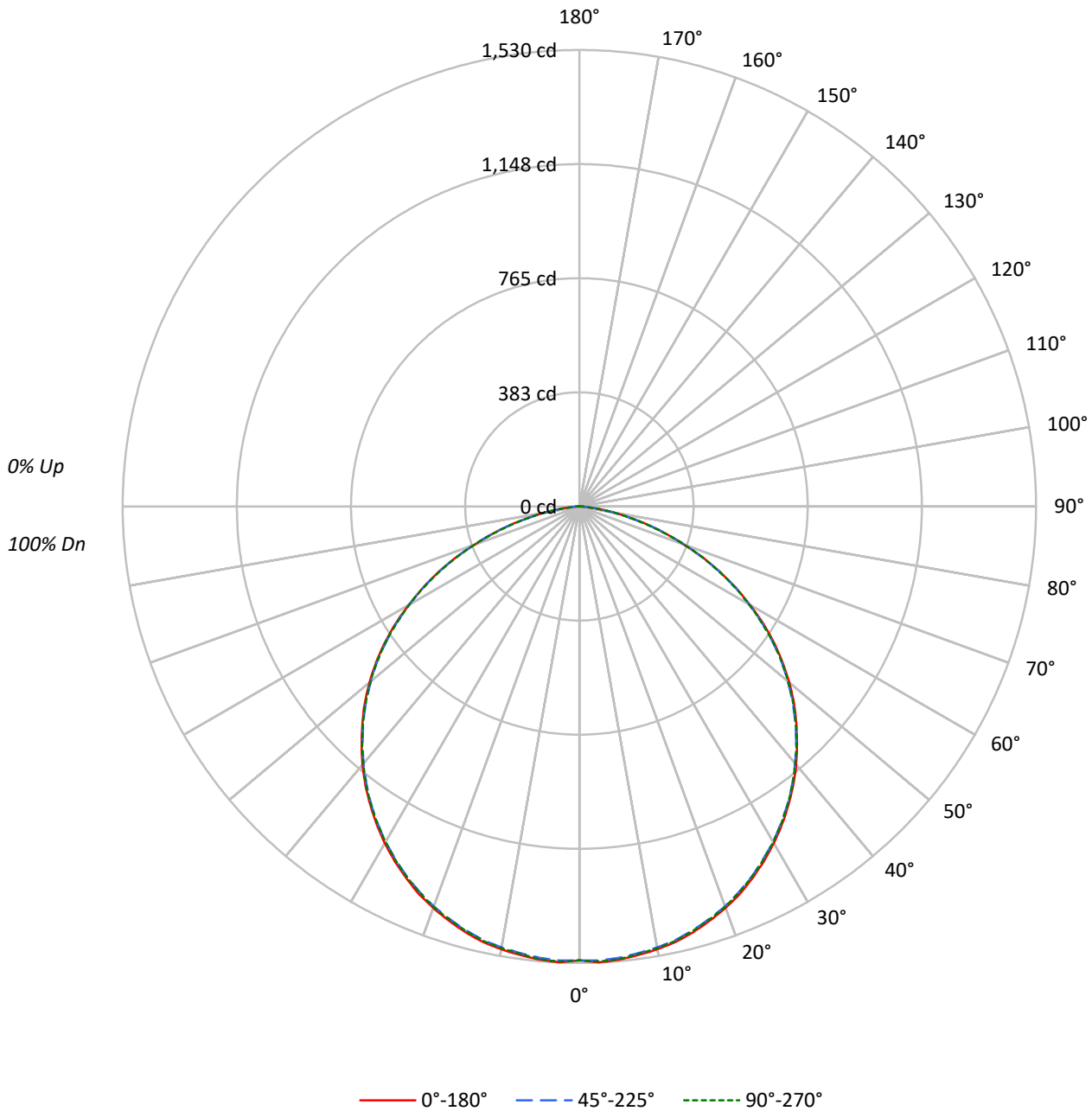
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4254.3 lumens  
Efficiency: N/A  
Efficacy: 106.4 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): 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°	4094	4094	4094
5°	4119	4102	4115
10°	4118	4100	4108
15°	4115	4097	4102
20°	4101	4085	4090
25°	4079	4062	4065
30°	4050	4032	4035
35°	4013	3997	4001
40°	3971	3951	3954
45°	3912	3894	3901
50°	3843	3816	3823
55°	3734	3703	3716
60°	3550	3535	3535
65°	3315	3309	3296
70°	2935	2950	2943
75°	2471	2452	2433
80°	1776	1748	1733
85°	929	929	898

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3912 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.1	3.4
10°-20°	414.3	9.7
20°-30°	629.5	14.8
30°-40°	760.9	17.9
40°-50°	789.8	18.6
50°-60°	706.1	16.6
60°-70°	513.4	12.1
70°-80°	252.5	5.9
80°-90°	43.8	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°	1187.9	27.9
0°-40°	1948.8	45.8
0°-60°	3444.7	81.0
0°-90°	4254.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4254.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1521	1521	1521	1521	1521	
5°	1525	1507	1518	1513	1523	145
15°	1477	1460	1470	1467	1472	417
25°	1374	1359	1368	1365	1369	633
35°	1222	1213	1217	1218	1218	764
45°	1028	1023	1023	1025	1025	793
55°	796	791	789	791	792	709
65°	521	522	520	520	518	513
75°	238	240	236	237	234	252
85°	30	31	30	30	29	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1521.3	1521.3	1521.3	1521.3	1521.3
2.5°	1529.7	1511.9	1523.2	1516.6	1526.9
5°	1525.0	1507.2	1518.5	1512.8	1523.2
7.5°	1516.6	1498.7	1510.0	1504.4	1512.8
10°	1507.2	1488.4	1500.6	1495.0	1503.4
12.5°	1495.0	1477.1	1488.4	1483.7	1491.2
15°	1477.1	1460.2	1470.5	1466.8	1472.4
17.5°	1455.5	1438.6	1448.9	1446.1	1450.8
20°	1432.0	1416.0	1426.4	1423.6	1428.3
22.5°	1405.7	1388.8	1398.2	1396.3	1400.1
25°	1373.8	1358.7	1368.1	1365.3	1369.1
27.5°	1339.9	1325.8	1333.4	1333.4	1335.2
30°	1303.3	1290.1	1297.6	1297.6	1298.6
32.5°	1263.8	1253.5	1258.2	1259.1	1259.1
35°	1221.5	1213.1	1216.8	1217.8	1217.8
37.5°	1177.4	1168.9	1171.7	1173.6	1173.6
40°	1130.4	1122.9	1124.8	1126.6	1125.7
42.5°	1079.6	1074.0	1074.9	1076.8	1076.8
45°	1028.0	1023.3	1023.3	1025.1	1025.1
47.5°	975.3	970.6	968.8	970.6	970.6
50°	918.0	913.3	911.5	913.3	913.3
52.5°	857.9	853.2	853.2	853.2	854.1
55°	795.9	791.2	789.3	791.2	792.1
57.5°	730.1	728.2	725.4	726.3	723.5
60°	659.6	659.6	656.8	658.7	656.8
62.5°	591.0	592.9	590.1	590.1	588.2
65°	520.6	522.4	519.6	519.6	517.7
67.5°	448.2	451.0	447.3	447.3	445.4
70°	373.0	378.7	374.9	375.9	374.0
72.5°	305.4	308.2	304.4	304.4	302.6
75°	237.7	239.6	235.8	236.8	234.0
77.5°	171.0	173.8	170.1	171.0	170.1
80°	114.6	115.6	112.8	113.7	111.8
82.5°	66.7	67.7	66.7	65.8	64.8
85°	30.1	31.0	30.1	30.1	29.1
87.5°	7.5	7.5	7.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)