

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: P973953

Luminaire Tested: FLR2-22-50HE-L940-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973953  
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-L940-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

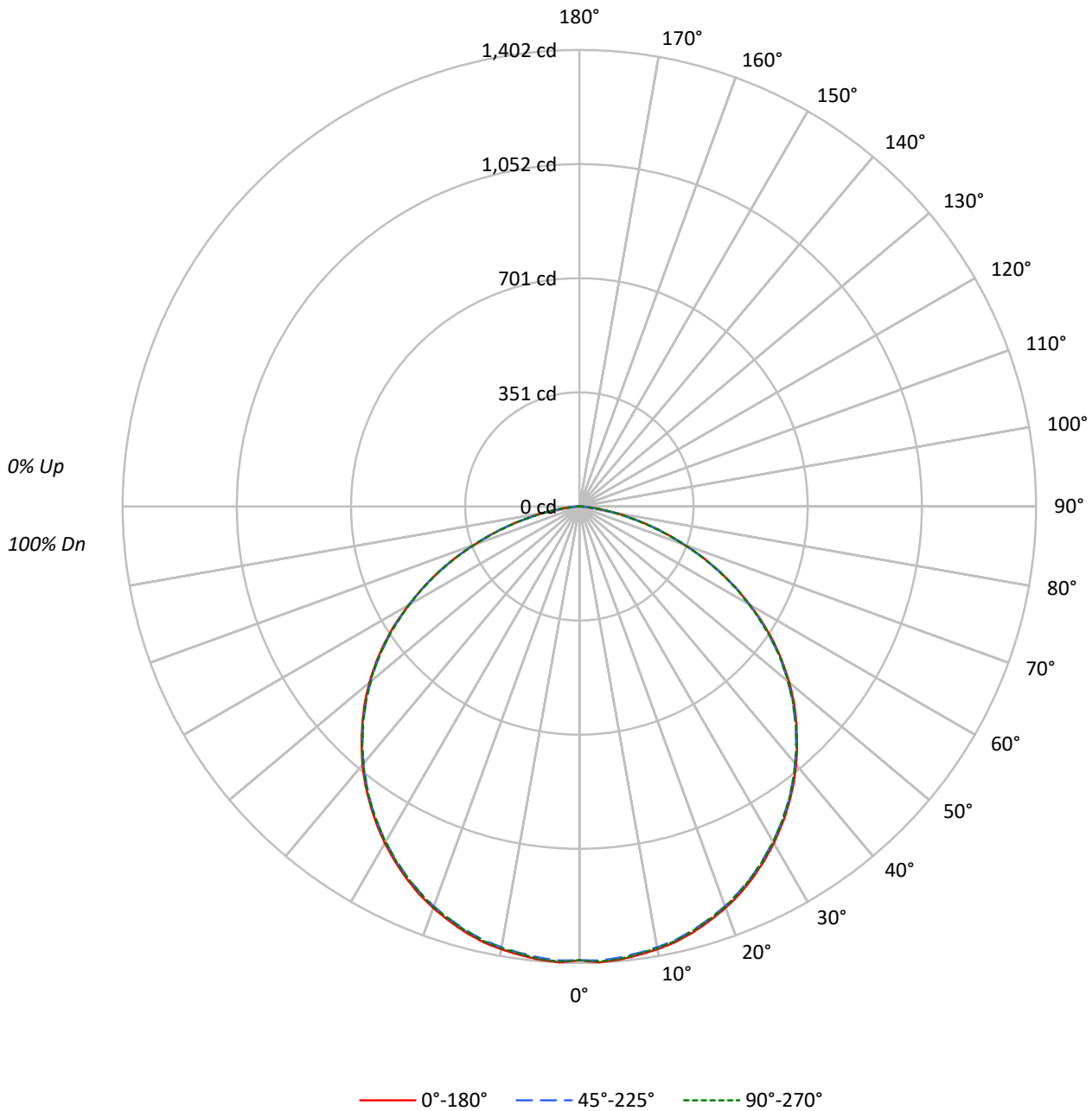
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3897.9 lumens  
Efficiency: N/A  
Efficacy: 97.4 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	3751	3751	3751
5°	3774	3758	3770
10°	3773	3757	3764
15°	3770	3753	3758
20°	3757	3743	3747
25°	3737	3722	3725
30°	3710	3694	3697
35°	3677	3663	3665
40°	3638	3620	3623
45°	3584	3568	3575
50°	3521	3496	3503
55°	3421	3393	3405
60°	3253	3239	3239
65°	3037	3032	3021
70°	2689	2703	2696
75°	2264	2247	2229
80°	1627	1601	1587
85°	849	849	824

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3584 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.0	3.4
10°-20°	379.6	9.7
20°-30°	576.8	14.8
30°-40°	697.2	17.9
40°-50°	723.6	18.6
50°-60°	646.9	16.6
60°-70°	470.4	12.1
70°-80°	231.3	5.9
80°-90°	40.1	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°	1088.3	27.9
0°-40°	1785.5	45.8
0°-60°	3156.1	81.0
0°-90°	3897.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3897.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1397	1381	1391	1386	1396	133
15°	1353	1338	1347	1344	1349	382
25°	1259	1245	1254	1251	1254	580
35°	1119	1112	1115	1116	1116	700
45°	942	938	938	939	939	727
55°	729	725	723	725	726	650
65°	477	479	476	476	474	470
75°	218	220	216	217	214	231
85°	28	28	28	28	27	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1393.8	1393.8	1393.8	1393.8	1393.8
2.5°	1401.6	1385.2	1395.6	1389.5	1399.0
5°	1397.3	1380.9	1391.2	1386.1	1395.6
7.5°	1389.5	1373.2	1383.5	1378.3	1386.1
10°	1380.9	1363.7	1374.9	1369.7	1377.5
12.5°	1369.7	1353.4	1363.7	1359.4	1366.3
15°	1353.4	1337.9	1347.3	1343.9	1349.1
17.5°	1333.6	1318.1	1327.5	1325.0	1329.3
20°	1312.0	1297.4	1306.9	1304.3	1308.6
22.5°	1287.9	1272.4	1281.1	1279.3	1282.8
25°	1258.7	1244.9	1253.5	1250.9	1254.4
27.5°	1227.7	1214.8	1221.6	1221.6	1223.4
30°	1194.1	1182.0	1188.9	1188.9	1189.8
32.5°	1157.9	1148.5	1152.8	1153.6	1153.6
35°	1119.2	1111.5	1114.9	1115.8	1115.8
37.5°	1078.7	1071.0	1073.6	1075.3	1075.3
40°	1035.7	1028.8	1030.5	1032.2	1031.4
42.5°	989.2	984.0	984.9	986.6	986.6
45°	941.8	937.5	937.5	939.3	939.3
47.5°	893.6	889.3	887.6	889.3	889.3
50°	841.1	836.8	835.1	836.8	836.8
52.5°	786.0	781.7	781.7	781.7	782.6
55°	729.2	724.9	723.2	724.9	725.8
57.5°	668.9	667.2	664.6	665.5	662.9
60°	604.4	604.4	601.8	603.5	601.8
62.5°	541.5	543.2	540.7	540.7	538.9
65°	477.0	478.7	476.1	476.1	474.4
67.5°	410.7	413.2	409.8	409.8	408.1
70°	341.8	347.0	343.5	344.4	342.6
72.5°	279.8	282.4	278.9	278.9	277.2
75°	217.8	219.5	216.1	217.0	214.4
77.5°	156.7	159.3	155.8	156.7	155.8
80°	105.0	105.9	103.3	104.2	102.4
82.5°	61.1	62.0	61.1	60.3	59.4
85°	27.5	28.4	27.5	27.5	26.7
87.5°	6.9	6.9	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)