

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: P973971

Luminaire Tested: FLR2-22-50HE-L940-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973971  
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-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

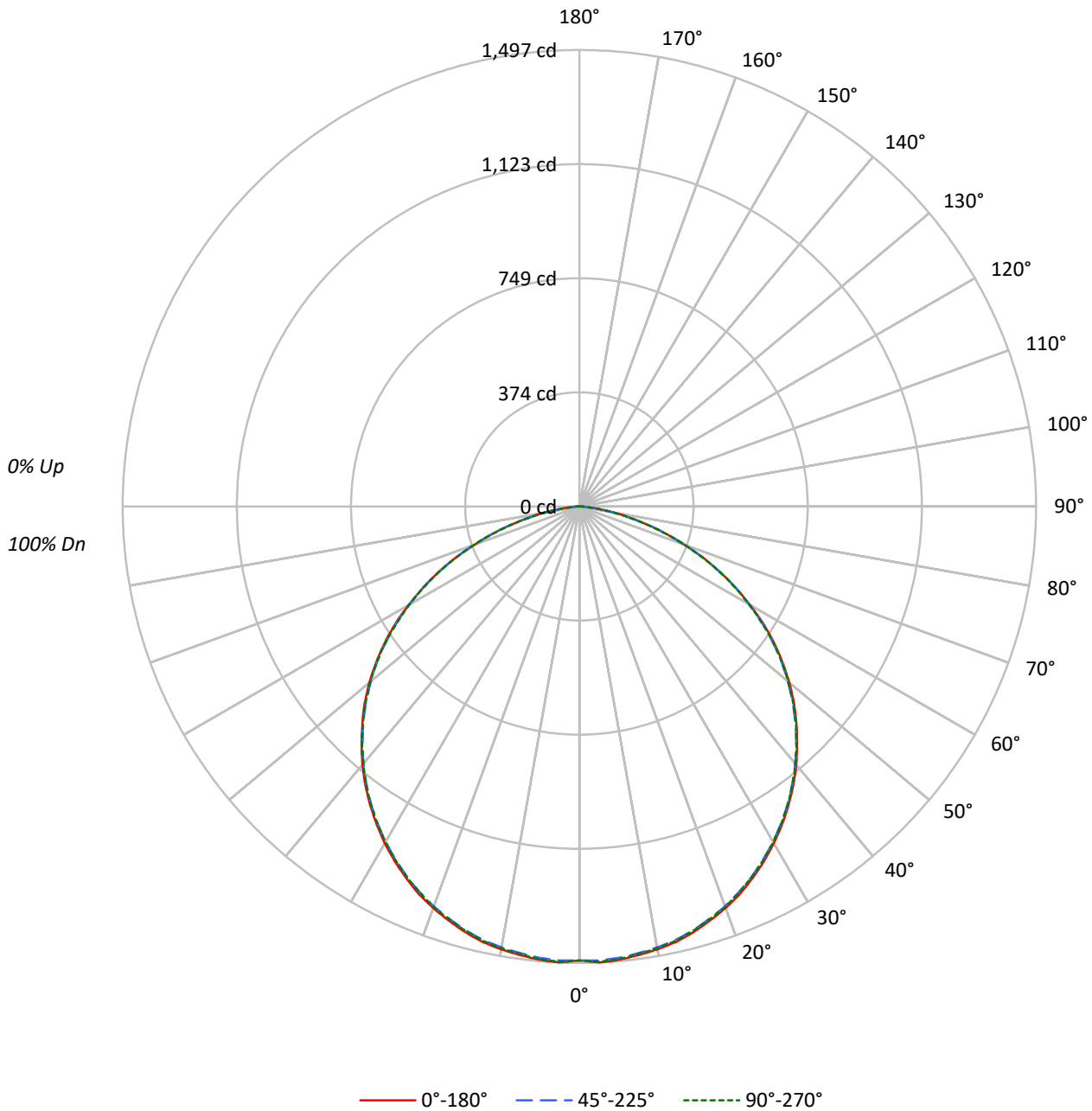
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4163.2 lumens  
Efficiency: N/A  
Efficacy: 104.1 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				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°	4006	4006	4006
5°	4031	4014	4026
10°	4030	4013	4020
15°	4027	4009	4014
20°	4013	3997	4003
25°	3991	3975	3978
30°	3963	3946	3949
35°	3927	3912	3915
40°	3886	3867	3870
45°	3828	3811	3818
50°	3761	3734	3742
55°	3654	3624	3637
60°	3474	3459	3459
65°	3244	3238	3226
70°	2872	2887	2880
75°	2418	2400	2381
80°	1739	1709	1695
85°	908	908	880

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3828 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.0	3.4
10°-20°	405.4	9.7
20°-30°	616.0	14.8
30°-40°	744.6	17.9
40°-50°	772.9	18.6
50°-60°	691.0	16.6
60°-70°	502.4	12.1
70°-80°	247.1	5.9
80°-90°	42.9	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°	1162.4	27.9
0°-40°	1907.0	45.8
0°-60°	3370.9	81.0
0°-90°	4163.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4163.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1492	1475	1486	1480	1490	142
15°	1446	1429	1439	1435	1441	408
25°	1344	1330	1339	1336	1340	620
35°	1195	1187	1191	1192	1192	748
45°	1006	1001	1001	1003	1003	776
55°	779	774	772	774	775	694
65°	509	511	508	508	507	502
75°	233	234	231	232	229	247
85°	29	30	29	29	28	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1488.7	1488.7	1488.7	1488.7	1488.7
2.5°	1497.0	1479.5	1490.5	1484.1	1494.2
5°	1492.4	1474.9	1485.9	1480.4	1490.5
7.5°	1484.1	1466.6	1477.7	1472.1	1480.4
10°	1474.9	1456.5	1468.5	1463.0	1471.2
12.5°	1463.0	1445.5	1456.5	1451.9	1459.3
15°	1445.5	1428.9	1439.0	1435.4	1440.9
17.5°	1424.3	1407.8	1417.9	1415.1	1419.7
20°	1401.3	1385.7	1395.8	1393.1	1397.7
22.5°	1375.6	1359.0	1368.2	1366.4	1370.1
25°	1344.3	1329.6	1338.8	1336.1	1339.7
27.5°	1311.2	1297.4	1304.8	1304.8	1306.6
30°	1275.4	1262.5	1269.9	1269.9	1270.8
32.5°	1236.7	1226.6	1231.2	1232.2	1232.2
35°	1195.4	1187.1	1190.8	1191.7	1191.7
37.5°	1152.2	1143.9	1146.6	1148.5	1148.5
40°	1106.2	1098.8	1100.7	1102.5	1101.6
42.5°	1056.5	1051.0	1051.9	1053.8	1053.8
45°	1006.0	1001.4	1001.4	1003.2	1003.2
47.5°	954.5	949.9	948.0	949.9	949.9
50°	898.4	893.8	891.9	893.8	893.8
52.5°	839.5	834.9	834.9	834.9	835.8
55°	778.8	774.2	772.4	774.2	775.2
57.5°	714.5	712.6	709.9	710.8	708.0
60°	645.5	645.5	642.7	644.6	642.7
62.5°	578.4	580.2	577.5	577.5	575.6
65°	509.4	511.3	508.5	508.5	506.7
67.5°	438.6	441.4	437.7	437.7	435.9
70°	365.0	370.6	366.9	367.8	366.0
72.5°	298.8	301.6	297.9	297.9	296.1
75°	232.6	234.5	230.8	231.7	229.0
77.5°	167.4	170.1	166.4	167.4	166.4
80°	112.2	113.1	110.3	111.3	109.4
82.5°	65.3	66.2	65.3	64.4	63.4
85°	29.4	30.3	29.4	29.4	28.5
87.5°	7.4	7.4	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)