

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: P974366

Luminaire Tested: FLR2-24-55-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-55-L940-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L940-CP250
Ballast/Driver: -

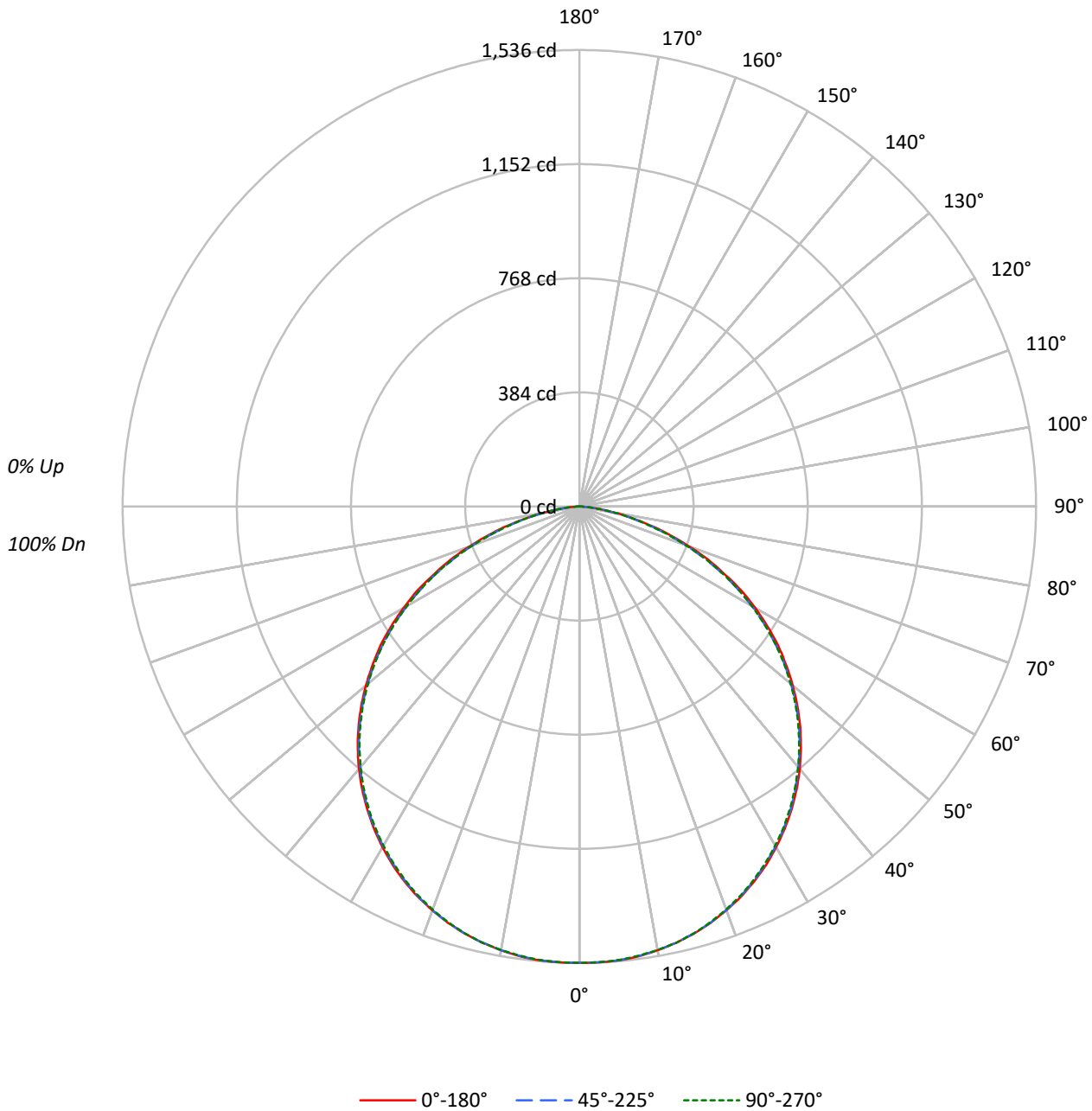
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4340.6 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
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	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85																												
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51																												
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44																												
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38																												
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34																												
8	61	47	39	33	59	47	38	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	39	33	29	27																												
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2066	2066	2066
5°	2071	2071	2069
10°	2072	2071	2070
15°	2073	2072	2072
20°	2070	2070	2066
25°	2067	2062	2059
30°	2057	2051	2047
35°	2044	2038	2031
40°	2026	2013	2010
45°	2000	1988	1982
50°	1962	1947	1941
55°	1916	1889	1886
60°	1836	1803	1803
65°	1718	1677	1683
70°	1546	1498	1494
75°	1298	1246	1240
80°	948	901	939
85°	536	494	502

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2000 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	3.4
10°-20°	420.0	9.7
20°-30°	640.3	14.8
30°-40°	775.8	17.9
40°-50°	805.8	18.6
50°-60°	720.9	16.6
60°-70°	525.4	12.1
70°-80°	260.2	6.0
80°-90°	46.5	1.1
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°	1206.0	27.8
0°-40°	1981.8	45.7
0°-60°	3508.5	80.8
0°-90°	4340.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4340.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1533	1534	1533	1533	1532	146
15°	1488	1487	1487	1488	1487	420
25°	1392	1390	1389	1389	1387	642
35°	1244	1243	1241	1239	1237	778
45°	1051	1049	1045	1043	1042	810
55°	817	811	805	805	804	728
65°	540	535	527	529	528	535
75°	250	246	240	244	239	266
85°	35	32	32	32	32	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.8	1535.8	1535.8	1535.8	1535.8
2.5°	1535.8	1535.2	1535.2	1535.8	1534.7
5°	1533.0	1533.6	1533.0	1533.0	1531.9
7.5°	1527.0	1526.4	1525.9	1526.4	1524.8
10°	1516.5	1516.5	1516.0	1516.5	1515.4
12.5°	1503.8	1503.8	1503.8	1504.4	1503.8
15°	1487.9	1487.3	1487.3	1488.4	1487.3
17.5°	1469.1	1468.6	1468.6	1468.0	1466.9
20°	1446.0	1446.0	1445.4	1444.9	1443.2
22.5°	1421.2	1420.6	1419.0	1419.0	1416.8
25°	1392.0	1390.3	1389.2	1388.7	1387.0
27.5°	1360.0	1357.8	1356.1	1355.0	1353.4
30°	1324.2	1322.0	1320.3	1318.7	1317.6
32.5°	1285.6	1284.5	1281.8	1281.2	1279.0
35°	1244.3	1242.6	1241.0	1238.8	1236.6
37.5°	1200.2	1198.5	1194.7	1193.6	1191.9
40°	1153.4	1151.2	1146.2	1146.2	1144.5
42.5°	1103.2	1101.0	1097.7	1095.5	1094.4
45°	1050.9	1048.7	1044.8	1042.6	1041.5
47.5°	995.2	993.6	989.1	987.5	985.8
50°	937.3	935.1	930.2	929.1	927.4
52.5°	876.7	875.6	869.0	868.5	866.8
55°	816.7	810.6	805.1	805.1	804.0
57.5°	750.5	746.1	739.0	739.0	737.9
60°	682.2	678.4	670.1	671.2	670.1
62.5°	615.5	607.3	599.5	602.9	600.1
65°	539.5	535.1	526.8	529.0	528.5
67.5°	470.1	461.8	454.1	458.5	456.3
70°	392.9	388.5	380.8	385.2	379.7
72.5°	320.2	316.3	308.6	313.6	308.0
75°	249.6	245.8	239.7	244.1	238.6
77.5°	183.0	180.2	174.7	179.1	180.2
80°	122.3	119.0	116.3	120.1	121.2
82.5°	71.6	69.4	68.3	68.9	71.6
85°	34.7	32.0	32.0	32.5	32.5
87.5°	9.4	8.3	9.4	9.9	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)