

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: P974422

Luminaire Tested: FLR2-24-55-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974422
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-L850-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L850-CP250
Ballast/Driver: -

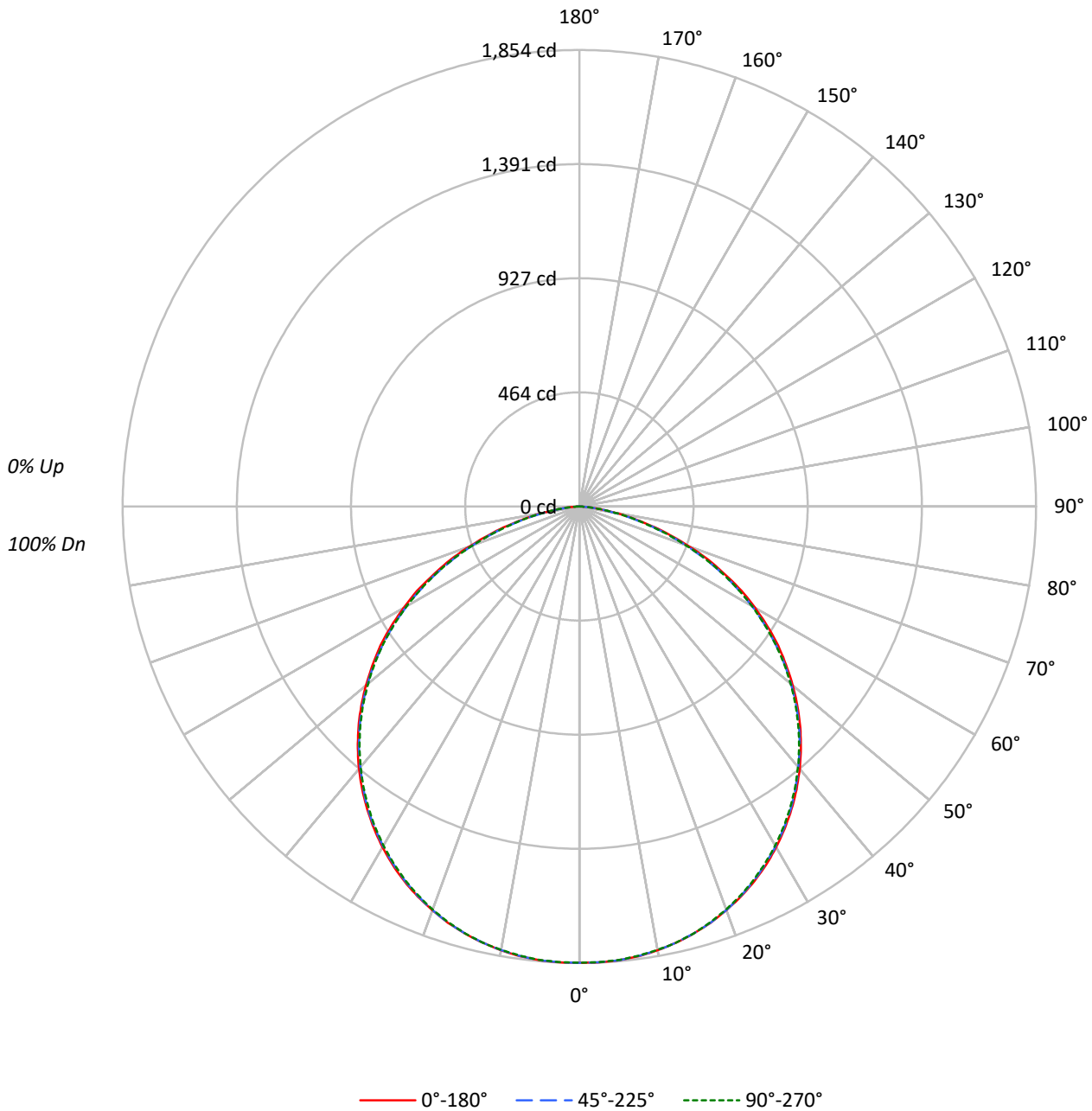
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5238.7 lumens
Efficiency: N/A
Efficacy: 118.8 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									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85			85																
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71			71																
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60			60																
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51			51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44			44																
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38			38																
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34			34																
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30			30																
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27			27																
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25			25																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2494	2494	2494
5°	2499	2499	2497
10°	2501	2500	2499
15°	2501	2500	2500
20°	2499	2498	2494
25°	2494	2489	2485
30°	2483	2476	2471
35°	2467	2460	2451
40°	2445	2430	2426
45°	2413	2399	2392
50°	2368	2350	2343
55°	2312	2279	2276
60°	2216	2176	2176
65°	2073	2024	2031
70°	1865	1808	1803
75°	1566	1504	1497
80°	1144	1087	1134
85°	647	596	605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2413 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	3.4
10°-20°	506.9	9.7
20°-30°	772.8	14.8
30°-40°	936.3	17.9
40°-50°	972.6	18.6
50°-60°	870.0	16.6
60°-70°	634.1	12.1
70°-80°	314.0	6.0
80°-90°	56.1	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°	1455.6	27.8
0°-40°	2391.8	45.7
0°-60°	4234.4	80.8
0°-90°	5238.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5238.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1850	1851	1850	1850	1849	176
15°	1796	1795	1795	1796	1795	507
25°	1680	1678	1677	1676	1674	774
35°	1502	1500	1498	1495	1492	939
45°	1268	1266	1261	1258	1257	977
55°	986	978	972	972	970	878
65°	651	646	636	638	638	645
75°	301	297	289	295	288	321
85°	42	39	39	39	39	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1853.5	1853.5	1853.5	1853.5	1853.5
2.5°	1853.5	1852.9	1852.9	1853.5	1852.2
5°	1850.2	1850.9	1850.2	1850.2	1848.9
7.5°	1842.9	1842.2	1841.6	1842.2	1840.2
10°	1830.3	1830.3	1829.6	1830.3	1828.9
12.5°	1815.0	1815.0	1815.0	1815.6	1815.0
15°	1795.7	1795.0	1795.0	1796.3	1795.0
17.5°	1773.1	1772.4	1772.4	1771.7	1770.4
20°	1745.1	1745.1	1744.5	1743.8	1741.8
22.5°	1715.2	1714.5	1712.5	1712.5	1709.9
25°	1680.0	1678.0	1676.6	1676.0	1674.0
27.5°	1641.4	1638.7	1636.7	1635.4	1633.4
30°	1598.2	1595.5	1593.5	1591.5	1590.2
32.5°	1551.6	1550.3	1546.9	1546.3	1543.6
35°	1501.7	1499.7	1497.7	1495.1	1492.4
37.5°	1448.5	1446.5	1441.9	1440.5	1438.5
40°	1392.0	1389.3	1383.3	1383.3	1381.3
42.5°	1331.5	1328.8	1324.8	1322.2	1320.8
45°	1268.3	1265.6	1261.0	1258.3	1257.0
47.5°	1201.1	1199.1	1193.8	1191.8	1189.8
50°	1131.3	1128.6	1122.6	1121.3	1119.3
52.5°	1058.1	1056.8	1048.8	1048.1	1046.2
55°	985.6	978.3	971.7	971.7	970.3
57.5°	905.8	900.5	891.9	891.9	890.5
60°	823.4	818.7	808.7	810.1	808.7
62.5°	742.9	732.9	723.6	727.6	724.3
65°	651.1	645.8	635.8	638.5	637.8
67.5°	567.3	557.3	548.0	553.3	550.7
70°	474.2	468.9	459.6	464.9	458.2
72.5°	386.4	381.7	372.4	378.4	371.8
75°	301.3	296.6	289.3	294.6	288.0
77.5°	220.8	217.5	210.8	216.1	217.5
80°	147.6	143.7	140.3	145.0	146.3
82.5°	86.5	83.8	82.5	83.1	86.5
85°	41.9	38.6	38.6	39.2	39.2
87.5°	11.3	10.0	11.3	12.0	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)