

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: P974454

Luminaire Tested: FLR2-24-55-L950-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974454  
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-L950-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-55-L950-CP080  
Ballast/Driver: -

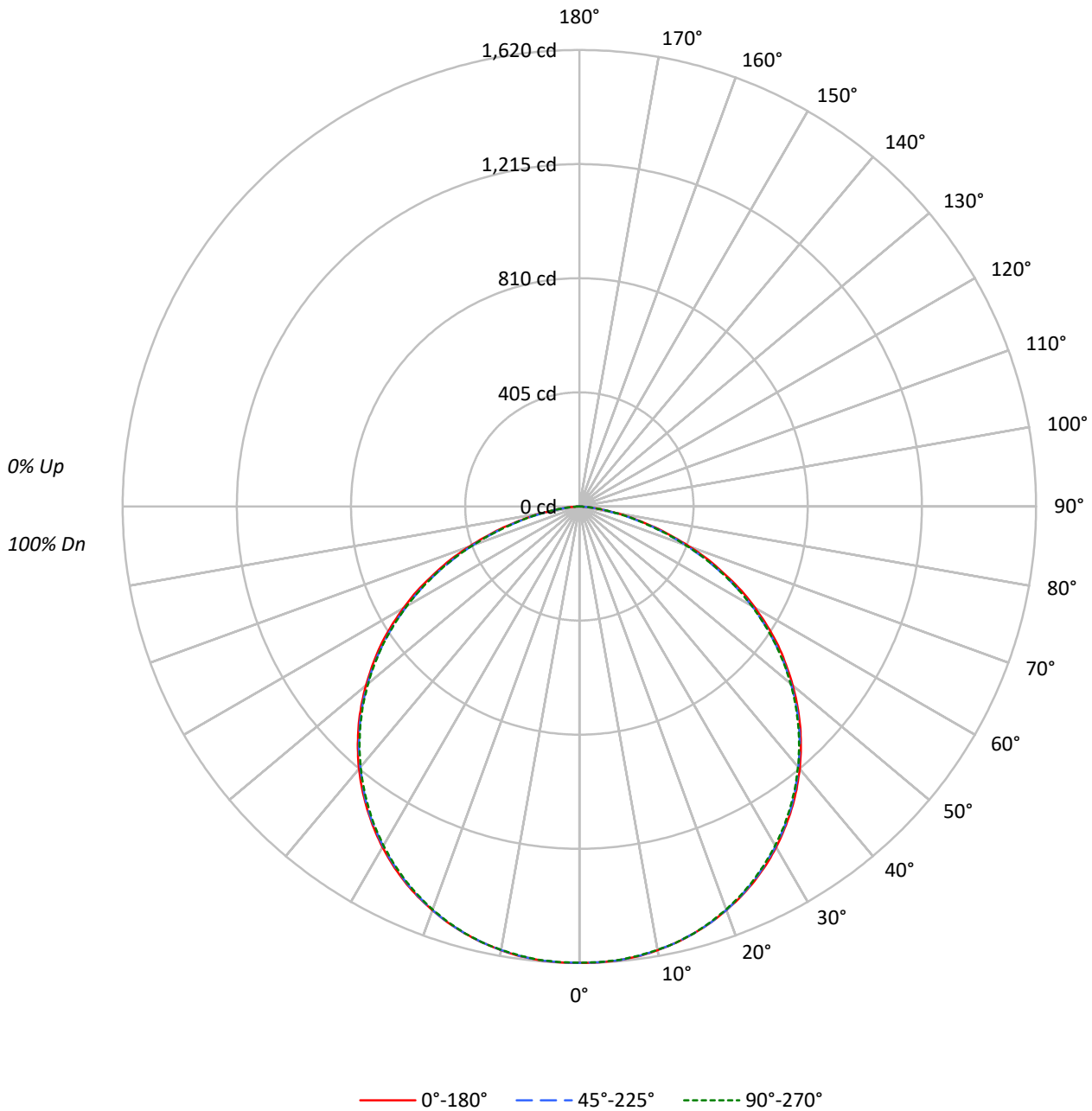
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4577.4 lumens  
Efficiency: N/A  
Efficacy: 103.8 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									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	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°	2179	2179	2179
5°	2184	2184	2182
10°	2185	2184	2183
15°	2186	2185	2185
20°	2183	2183	2179
25°	2179	2175	2171
30°	2169	2163	2159
35°	2155	2150	2142
40°	2136	2123	2120
45°	2109	2097	2090
50°	2069	2053	2047
55°	2020	1992	1989
60°	1936	1901	1901
65°	1811	1769	1774
70°	1630	1579	1575
75°	1368	1314	1308
80°	1000	950	990
85°	565	520	530

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2109 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.7	3.4
10°-20°	442.9	9.7
20°-30°	675.2	14.8
30°-40°	818.1	17.9
40°-50°	849.8	18.6
50°-60°	760.2	16.6
60°-70°	554.0	12.1
70°-80°	274.4	6.0
80°-90°	49.0	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°	1271.8	27.8
0°-40°	2089.9	45.7
0°-60°	3699.9	80.8
0°-90°	4577.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4577.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1617	1617	1617	1617	1616	154
15°	1569	1568	1568	1570	1568	443
25°	1468	1466	1465	1464	1463	677
35°	1312	1310	1309	1306	1304	821
45°	1108	1106	1102	1100	1098	854
55°	861	855	849	849	848	767
65°	569	564	556	558	557	564
75°	263	259	253	257	252	281
85°	37	34	34	34	34	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1619.6	1619.6	1619.6	1619.6	1619.6
2.5°	1619.6	1619.0	1619.0	1619.6	1618.4
5°	1616.7	1617.2	1616.7	1616.7	1615.5
7.5°	1610.3	1609.7	1609.1	1609.7	1607.9
10°	1599.2	1599.2	1598.6	1599.2	1598.1
12.5°	1585.9	1585.9	1585.9	1586.4	1585.9
15°	1569.0	1568.4	1568.4	1569.6	1568.4
17.5°	1549.2	1548.7	1548.7	1548.1	1546.9
20°	1524.8	1524.8	1524.3	1523.7	1521.9
22.5°	1498.7	1498.1	1496.4	1496.4	1494.0
25°	1467.9	1466.2	1465.0	1464.4	1462.7
27.5°	1434.2	1431.9	1430.1	1429.0	1427.2
30°	1396.4	1394.1	1392.3	1390.6	1389.4
32.5°	1355.7	1354.6	1351.7	1351.1	1348.8
35°	1312.2	1310.4	1308.7	1306.3	1304.0
37.5°	1265.7	1263.9	1259.9	1258.7	1256.9
40°	1216.3	1213.9	1208.7	1208.7	1207.0
42.5°	1163.4	1161.1	1157.6	1155.3	1154.1
45°	1108.2	1105.9	1101.8	1099.5	1098.3
47.5°	1049.5	1047.7	1043.1	1041.4	1039.6
50°	988.5	986.2	980.9	979.8	978.0
52.5°	924.6	923.4	916.4	915.8	914.1
55°	861.2	854.8	849.0	849.0	847.8
57.5°	791.5	786.8	779.3	779.3	778.1
60°	719.4	715.4	706.6	707.8	706.6
62.5°	649.1	640.4	632.3	635.7	632.8
65°	568.9	564.3	555.5	557.9	557.3
67.5°	495.7	487.0	478.8	483.5	481.2
70°	414.3	409.7	401.5	406.2	400.4
72.5°	337.6	333.6	325.4	330.7	324.8
75°	263.2	259.2	252.8	257.4	251.6
77.5°	192.9	190.0	184.2	188.9	190.0
80°	129.0	125.5	122.6	126.7	127.8
82.5°	75.5	73.2	72.1	72.6	75.5
85°	36.6	33.7	33.7	34.3	34.3
87.5°	9.9	8.7	9.9	10.5	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)