

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: P974390

Luminaire Tested: FLR2-24-55-L940-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974390  
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-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-55-L940-CA125  
Ballast/Driver: -

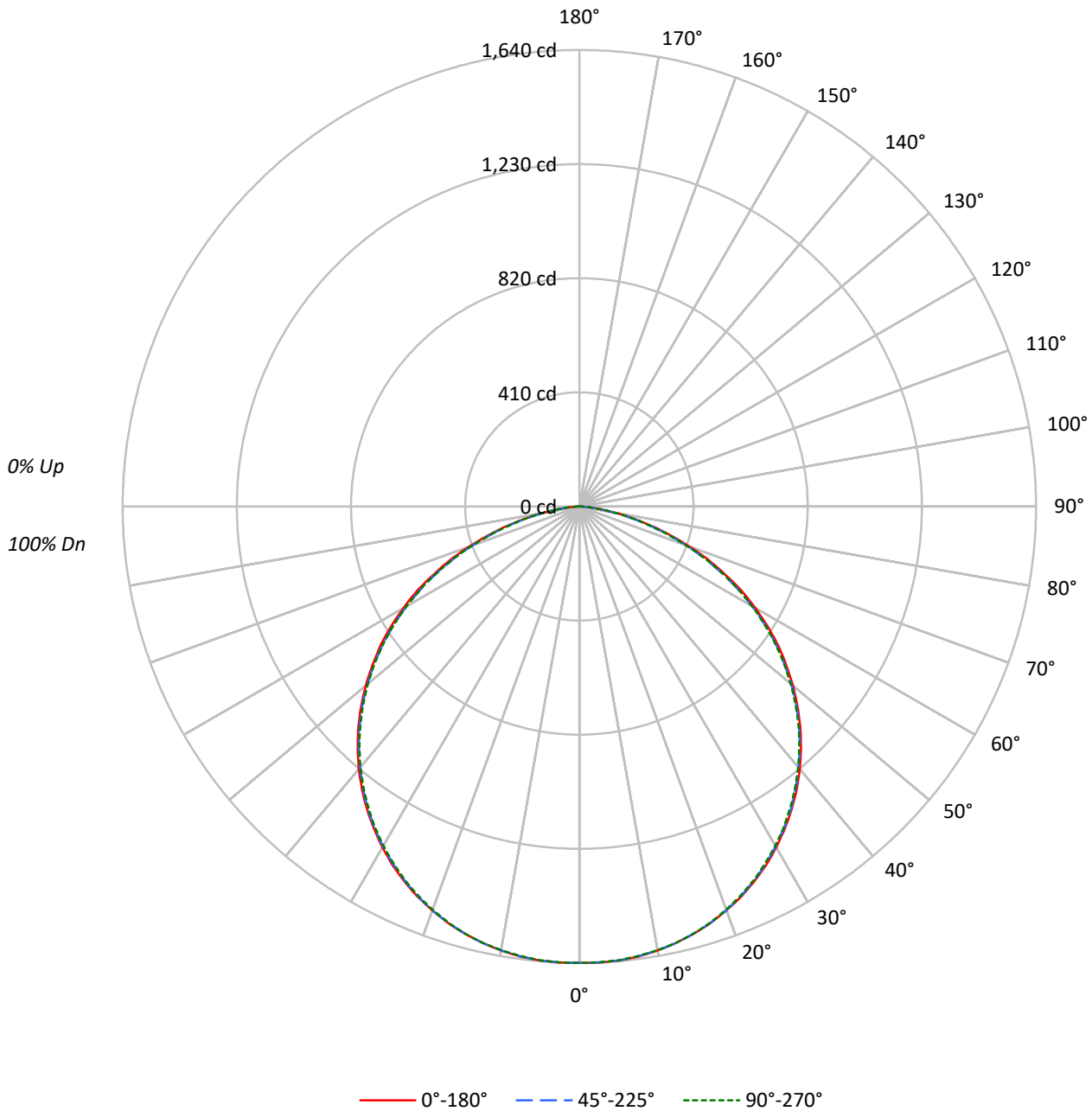
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4636.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 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				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	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°	2207	2207	2207
5°	2212	2212	2210
10°	2213	2212	2211
15°	2214	2213	2213
20°	2211	2210	2207
25°	2207	2203	2199
30°	2197	2191	2186
35°	2183	2177	2169
40°	2164	2150	2147
45°	2136	2123	2117
50°	2096	2080	2073
55°	2046	2017	2014
60°	1961	1926	1926
65°	1834	1791	1797
70°	1651	1600	1595
75°	1386	1331	1325
80°	1013	962	1003
85°	573	526	536

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2136 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.7	3.4
10°-20°	448.5	9.7
20°-30°	683.9	14.8
30°-40°	828.6	17.9
40°-50°	860.7	18.6
50°-60°	769.9	16.6
60°-70°	561.1	12.1
70°-80°	277.9	6.0
80°-90°	49.7	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°	1288.1	27.8
0°-40°	2116.7	45.7
0°-60°	3747.3	80.8
0°-90°	4636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4636.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1637	1638	1637	1637	1636	156
15°	1589	1588	1588	1590	1588	449
25°	1487	1485	1484	1483	1481	685
35°	1329	1327	1325	1323	1321	831
45°	1122	1120	1116	1114	1112	865
55°	872	866	860	860	859	777
65°	576	572	563	565	564	571
75°	267	262	256	261	255	284
85°	37	34	34	35	35	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1640.3	1640.3	1640.3	1640.3	1640.3
2.5°	1640.3	1639.7	1639.7	1640.3	1639.1
5°	1637.4	1638.0	1637.4	1637.4	1636.2
7.5°	1630.9	1630.3	1629.7	1630.3	1628.5
10°	1619.7	1619.7	1619.1	1619.7	1618.5
12.5°	1606.2	1606.2	1606.2	1606.8	1606.2
15°	1589.1	1588.5	1588.5	1589.7	1588.5
17.5°	1569.1	1568.5	1568.5	1567.9	1566.7
20°	1544.4	1544.4	1543.8	1543.2	1541.4
22.5°	1517.9	1517.3	1515.5	1515.5	1513.2
25°	1486.7	1484.9	1483.8	1483.2	1481.4
27.5°	1452.6	1450.2	1448.4	1447.3	1445.5
30°	1414.3	1412.0	1410.2	1408.4	1407.2
32.5°	1373.1	1371.9	1369.0	1368.4	1366.1
35°	1329.0	1327.2	1325.4	1323.1	1320.7
37.5°	1281.9	1280.1	1276.0	1274.8	1273.1
40°	1231.9	1229.5	1224.2	1224.2	1222.4
42.5°	1178.3	1175.9	1172.4	1170.1	1168.9
45°	1122.4	1120.0	1115.9	1113.6	1112.4
47.5°	1062.9	1061.2	1056.5	1054.7	1052.9
50°	1001.1	998.8	993.5	992.3	990.5
52.5°	936.4	935.2	928.2	927.6	925.8
55°	872.2	865.8	859.9	859.9	858.7
57.5°	801.6	796.9	789.3	789.3	788.1
60°	728.6	724.5	715.7	716.9	715.7
62.5°	657.4	648.6	640.4	643.9	640.9
65°	576.2	571.5	562.7	565.0	564.4
67.5°	502.0	493.2	485.0	489.7	487.3
70°	419.6	414.9	406.7	411.4	405.5
72.5°	342.0	337.8	329.6	334.9	329.0
75°	266.6	262.5	256.0	260.7	254.8
77.5°	195.4	192.5	186.6	191.3	192.5
80°	130.7	127.1	124.2	128.3	129.5
82.5°	76.5	74.2	73.0	73.6	76.5
85°	37.1	34.1	34.1	34.7	34.7
87.5°	10.0	8.8	10.0	10.6	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)