

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: P974166

Luminaire Tested: FLR2-24-55-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974166
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-L930-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L930-CA125
Ballast/Driver: -

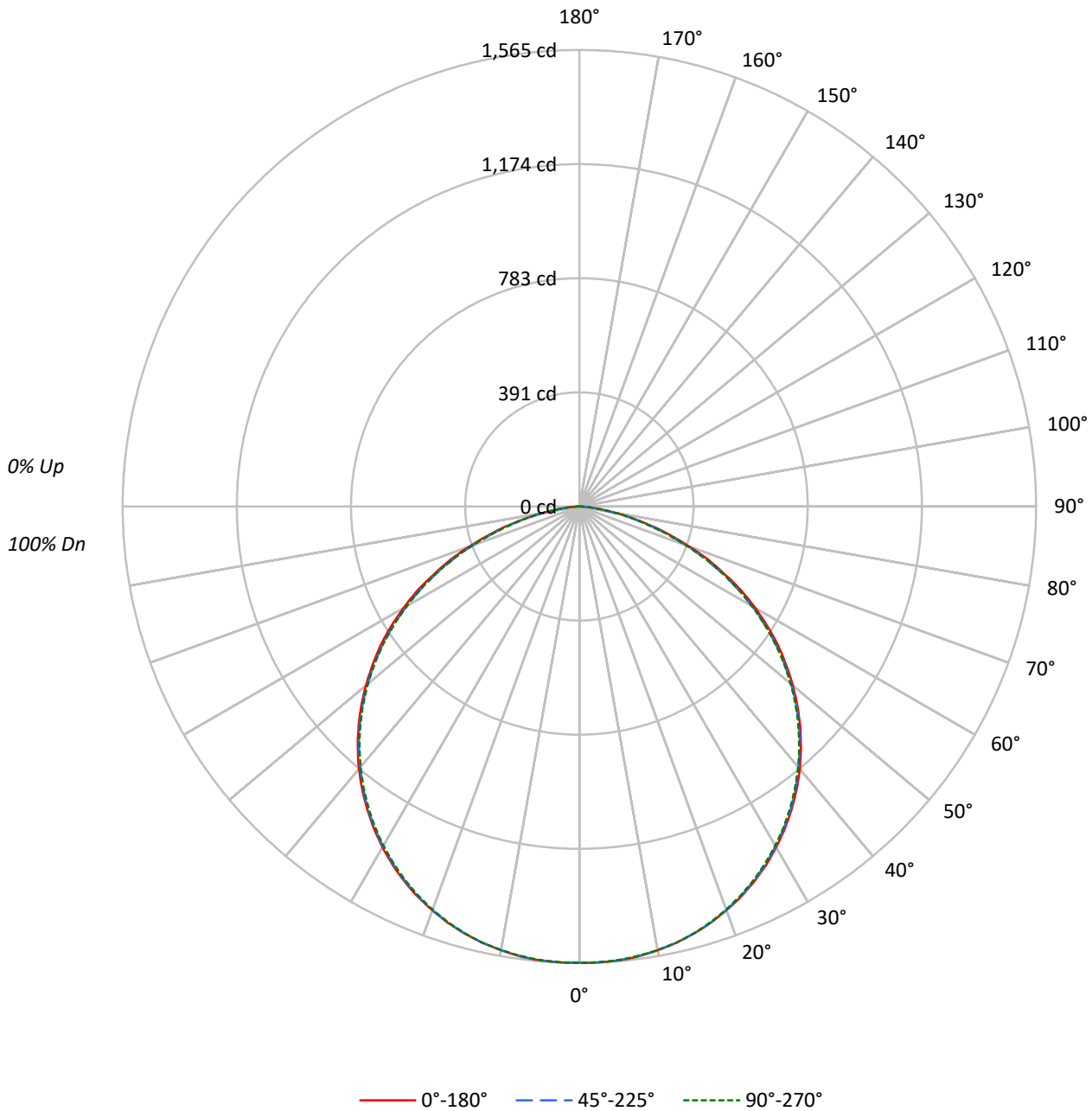
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4422.9 lumens
Efficiency: N/A
Efficacy: 100.3 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°	2106	2106	2106
5°	2110	2110	2108
10°	2111	2110	2110
15°	2112	2111	2111
20°	2110	2109	2106
25°	2106	2101	2098
30°	2096	2090	2086
35°	2083	2077	2070
40°	2064	2051	2048
45°	2038	2026	2019
50°	1999	1984	1978
55°	1952	1924	1922
60°	1870	1837	1837
65°	1750	1709	1714
70°	1575	1526	1522
75°	1323	1270	1264
80°	966	918	957
85°	546	503	511

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2038 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	3.4
10°-20°	427.9	9.7
20°-30°	652.4	14.8
30°-40°	790.5	17.9
40°-50°	821.1	18.6
50°-60°	734.5	16.6
60°-70°	535.3	12.1
70°-80°	265.1	6.0
80°-90°	47.4	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°	1228.9	27.8
0°-40°	2019.4	45.7
0°-60°	3575.0	80.8
0°-90°	4422.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4422.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1562	1563	1562	1562	1561	149
15°	1516	1516	1516	1517	1516	428
25°	1418	1417	1416	1415	1413	654
35°	1268	1266	1264	1262	1260	793
45°	1071	1068	1065	1062	1061	825
55°	832	826	820	820	819	741
65°	550	545	537	539	538	545
75°	254	250	244	249	243	271
85°	35	33	33	33	33	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.9	1564.9	1564.9	1564.9	1564.9
2.5°	1564.9	1564.3	1564.3	1564.9	1563.8
5°	1562.1	1562.7	1562.1	1562.1	1561.0
7.5°	1555.9	1555.4	1554.8	1555.4	1553.7
10°	1545.2	1545.2	1544.7	1545.2	1544.1
12.5°	1532.3	1532.3	1532.3	1532.9	1532.3
15°	1516.1	1515.5	1515.5	1516.6	1515.5
17.5°	1497.0	1496.4	1496.4	1495.8	1494.7
20°	1473.4	1473.4	1472.8	1472.3	1470.6
22.5°	1448.1	1447.5	1445.9	1445.9	1443.6
25°	1418.4	1416.7	1415.5	1415.0	1413.3
27.5°	1385.8	1383.5	1381.9	1380.7	1379.0
30°	1349.3	1347.0	1345.4	1343.7	1342.5
32.5°	1310.0	1308.9	1306.1	1305.5	1303.2
35°	1267.9	1266.2	1264.5	1262.3	1260.0
37.5°	1222.9	1221.3	1217.3	1216.2	1214.5
40°	1175.2	1173.0	1167.9	1167.9	1166.2
42.5°	1124.1	1121.9	1118.5	1116.3	1115.1
45°	1070.8	1068.5	1064.6	1062.4	1061.2
47.5°	1014.1	1012.4	1007.9	1006.2	1004.5
50°	955.1	952.9	947.8	946.7	945.0
52.5°	893.3	892.2	885.5	884.9	883.2
55°	832.1	826.0	820.4	820.4	819.2
57.5°	764.8	760.3	753.0	753.0	751.8
60°	695.1	691.2	682.8	683.9	682.8
62.5°	627.2	618.8	610.9	614.3	611.5
65°	549.7	545.2	536.8	539.0	538.5
67.5°	479.0	470.5	462.7	467.2	464.9
70°	400.3	395.9	388.0	392.5	386.9
72.5°	326.2	322.3	314.4	319.5	313.9
75°	254.4	250.4	244.3	248.7	243.1
77.5°	186.4	183.6	178.0	182.5	183.6
80°	124.7	121.3	118.5	122.4	123.5
82.5°	73.0	70.7	69.6	70.2	73.0
85°	35.4	32.6	32.6	33.1	33.1
87.5°	9.5	8.4	9.5	10.1	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)