

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: P974070

Luminaire Tested: FLR2-24-55-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974070
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-L830-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L830-CP125
Ballast/Driver: -

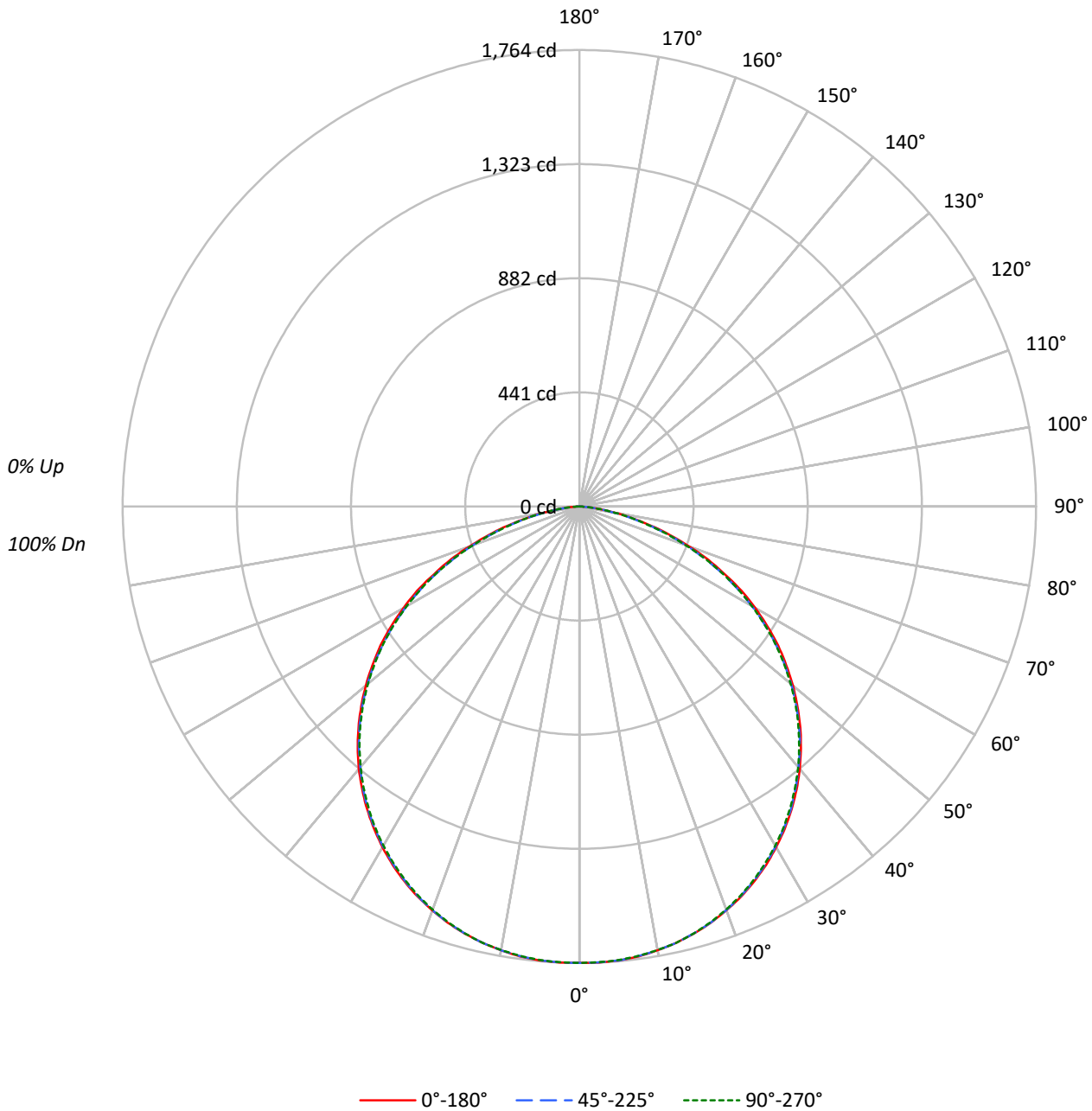
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4985.7 lumens
Efficiency: N/A
Efficacy: 113.1 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°	2373	2373	2373
5°	2378	2378	2377
10°	2380	2379	2378
15°	2381	2380	2380
20°	2378	2377	2374
25°	2374	2369	2365
30°	2363	2356	2351
35°	2348	2341	2333
40°	2327	2312	2309
45°	2297	2284	2276
50°	2254	2236	2230
55°	2200	2169	2166
60°	2109	2071	2071
65°	1973	1926	1933
70°	1775	1721	1716
75°	1490	1431	1425
80°	1089	1035	1079
85°	616	567	576

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2297 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	3.4
10°-20°	482.4	9.7
20°-30°	735.5	14.8
30°-40°	891.1	17.9
40°-50°	925.6	18.6
50°-60°	828.0	16.6
60°-70°	603.5	12.1
70°-80°	298.9	6.0
80°-90°	53.4	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°	1385.3	27.8
0°-40°	2276.4	45.7
0°-60°	4030.0	80.8
0°-90°	4985.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4985.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1761	1762	1761	1761	1760	167
15°	1709	1708	1708	1710	1708	483
25°	1599	1597	1596	1595	1593	737
35°	1429	1427	1425	1423	1420	894
45°	1207	1204	1200	1198	1196	930
55°	938	931	925	925	924	836
65°	620	615	605	608	607	614
75°	287	282	275	280	274	306
85°	40	37	37	37	37	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1764.0	1764.0	1764.0	1764.0	1764.0
2.5°	1764.0	1763.4	1763.4	1764.0	1762.8
5°	1760.9	1761.5	1760.9	1760.9	1759.6
7.5°	1753.9	1753.3	1752.7	1753.3	1751.4
10°	1741.9	1741.9	1741.3	1741.9	1740.6
12.5°	1727.3	1727.3	1727.3	1728.0	1727.3
15°	1709.0	1708.3	1708.3	1709.6	1708.3
17.5°	1687.5	1686.8	1686.8	1686.2	1684.9
20°	1660.9	1660.9	1660.2	1659.6	1657.7
22.5°	1632.4	1631.8	1629.9	1629.9	1627.3
25°	1598.8	1596.9	1595.7	1595.0	1593.1
27.5°	1562.1	1559.6	1557.7	1556.4	1554.5
30°	1521.0	1518.5	1516.6	1514.7	1513.4
32.5°	1476.7	1475.4	1472.3	1471.6	1469.1
35°	1429.2	1427.3	1425.4	1422.9	1420.4
37.5°	1378.6	1376.7	1372.2	1371.0	1369.1
40°	1324.8	1322.2	1316.5	1316.5	1314.6
42.5°	1267.2	1264.6	1260.8	1258.3	1257.0
45°	1207.0	1204.5	1200.1	1197.6	1196.3
47.5°	1143.1	1141.2	1136.2	1134.3	1132.4
50°	1076.7	1074.1	1068.4	1067.2	1065.3
52.5°	1007.0	1005.8	998.2	997.5	995.6
55°	938.0	931.1	924.7	924.7	923.5
57.5°	862.1	857.0	848.8	848.8	847.5
60°	783.6	779.2	769.7	770.9	769.7
62.5°	707.0	697.5	688.7	692.5	689.3
65°	619.7	614.6	605.1	607.6	607.0
67.5°	539.9	530.4	521.6	526.6	524.1
70°	451.3	446.2	437.4	442.4	436.1
72.5°	367.7	363.3	354.5	360.2	353.8
75°	286.7	282.3	275.3	280.4	274.1
77.5°	210.1	207.0	200.6	205.7	207.0
80°	140.5	136.7	133.6	138.0	139.3
82.5°	82.3	79.8	78.5	79.1	82.3
85°	39.9	36.7	36.7	37.3	37.3
87.5°	10.8	9.5	10.8	11.4	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)