

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: P974062

Luminaire Tested: FLR2-24-55-L830-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974062
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L830-CP080
Ballast/Driver: -

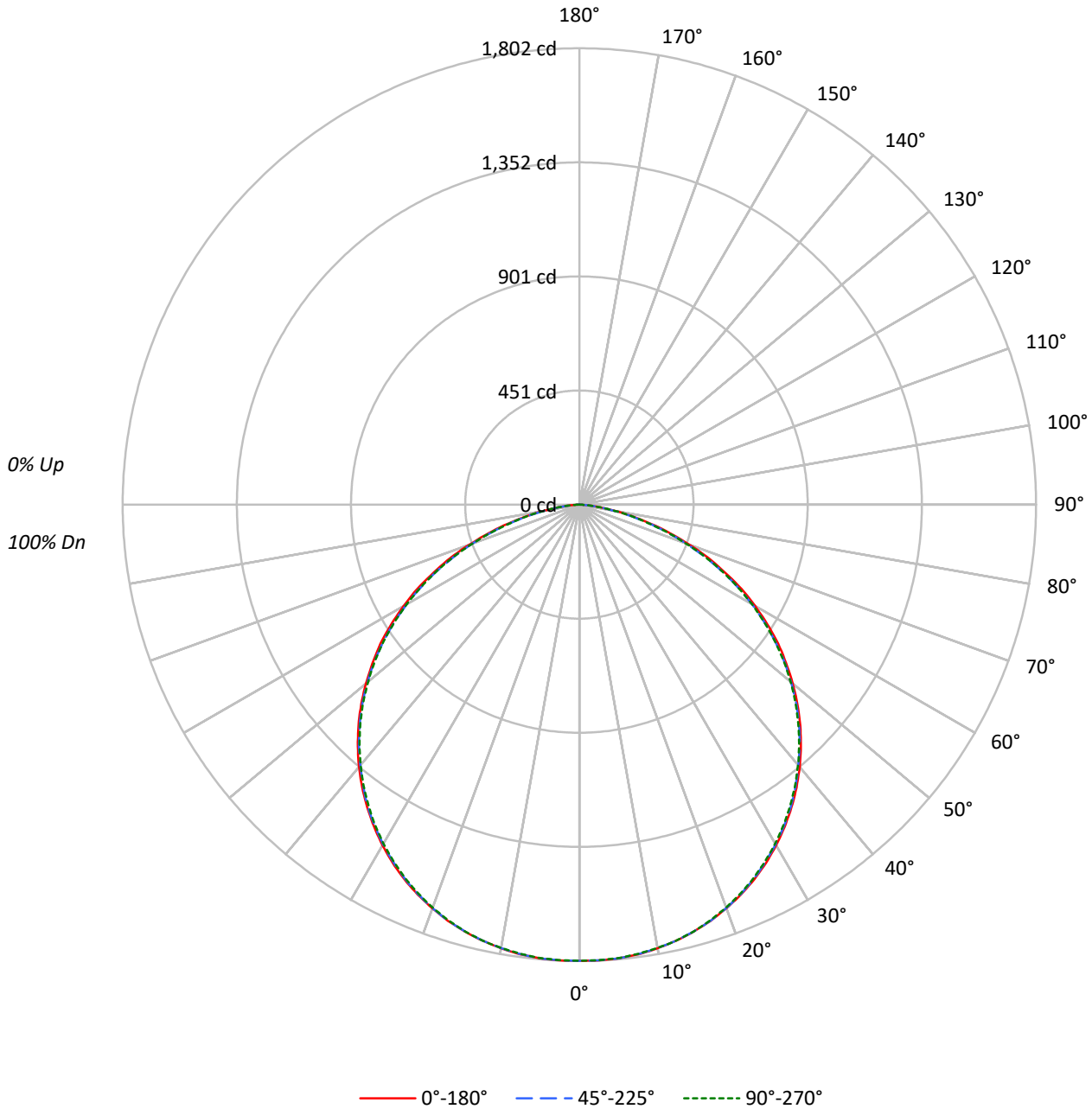
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5091.7 lumens
Efficiency: N/A
Efficacy: 115.5 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

TEST NUMBER: P974062
CATALOG NUMBER: FLR2-24-55-L830-CP080

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°	2424	2424	2424
5°	2429	2429	2427
10°	2430	2430	2429
15°	2431	2430	2430
20°	2429	2428	2424
25°	2424	2419	2415
30°	2413	2406	2401
35°	2397	2391	2383
40°	2376	2361	2358
45°	2346	2332	2325
50°	2301	2284	2277
55°	2247	2215	2212
60°	2154	2115	2115
65°	2015	1968	1974
70°	1813	1757	1752
75°	1522	1462	1455
80°	1112	1057	1102
85°	628	579	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2346 cd/sqm



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 CATALOG NUMBER: FLR2-24-55-L830-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	3.4
10°-20°	492.6	9.7
20°-30°	751.1	14.8
30°-40°	910.0	17.9
40°-50°	945.3	18.6
50°-60°	845.6	16.6
60°-70°	616.3	12.1
70°-80°	305.2	6.0
80°-90°	54.5	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°	1414.7	27.8
0°-40°	2324.7	45.7
0°-60°	4115.6	80.8
0°-90°	5091.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5091.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1802	1802	1802	1802	1802	
5°	1798	1799	1798	1798	1797	171
15°	1745	1745	1745	1746	1745	493
25°	1633	1631	1630	1629	1627	753
35°	1460	1458	1456	1453	1450	913
45°	1233	1230	1226	1223	1222	950
55°	958	951	944	944	943	853
65°	633	628	618	621	620	627
75°	293	288	281	286	280	312
85°	41	38	38	38	38	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1801.5	1801.5	1801.5	1801.5	1801.5
2.5°	1801.5	1800.9	1800.9	1801.5	1800.2
5°	1798.3	1799.0	1798.3	1798.3	1797.0
7.5°	1791.2	1790.5	1789.9	1790.5	1788.6
10°	1778.9	1778.9	1778.3	1778.9	1777.6
12.5°	1764.0	1764.0	1764.0	1764.7	1764.0
15°	1745.3	1744.7	1744.7	1745.9	1744.7
17.5°	1723.3	1722.7	1722.7	1722.0	1720.7
20°	1696.2	1696.2	1695.5	1694.9	1692.9
22.5°	1667.1	1666.4	1664.5	1664.5	1661.9
25°	1632.8	1630.9	1629.6	1628.9	1627.0
27.5°	1595.3	1592.7	1590.8	1589.5	1587.6
30°	1553.3	1550.7	1548.8	1546.9	1545.6
32.5°	1508.1	1506.8	1503.5	1502.9	1500.3
35°	1459.6	1457.6	1455.7	1453.1	1450.5
37.5°	1407.9	1405.9	1401.4	1400.1	1398.2
40°	1352.9	1350.3	1344.5	1344.5	1342.6
42.5°	1294.1	1291.5	1287.6	1285.1	1283.8
45°	1232.7	1230.1	1225.6	1223.0	1221.7
47.5°	1167.4	1165.5	1160.3	1158.4	1156.4
50°	1099.5	1097.0	1091.1	1089.8	1087.9
52.5°	1028.4	1027.1	1019.4	1018.7	1016.8
55°	958.0	950.9	944.4	944.4	943.1
57.5°	880.4	875.2	866.8	866.8	865.5
60°	800.3	795.7	786.0	787.3	786.0
62.5°	722.0	712.3	703.3	707.2	703.9
65°	632.8	627.7	618.0	620.6	619.9
67.5°	551.4	541.7	532.6	537.8	535.2
70°	460.9	455.7	446.7	451.8	445.4
72.5°	375.6	371.0	362.0	367.8	361.3
75°	292.8	288.3	281.2	286.4	279.9
77.5°	214.6	211.4	204.9	210.1	211.4
80°	143.5	139.6	136.4	140.9	142.2
82.5°	84.0	81.4	80.2	80.8	84.0
85°	40.7	37.5	37.5	38.1	38.1
87.5°	11.0	9.7	11.0	11.6	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)