

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: P974110

Luminaire Tested: FLR2-24-55-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974110
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L830-CA125
Ballast/Driver: -

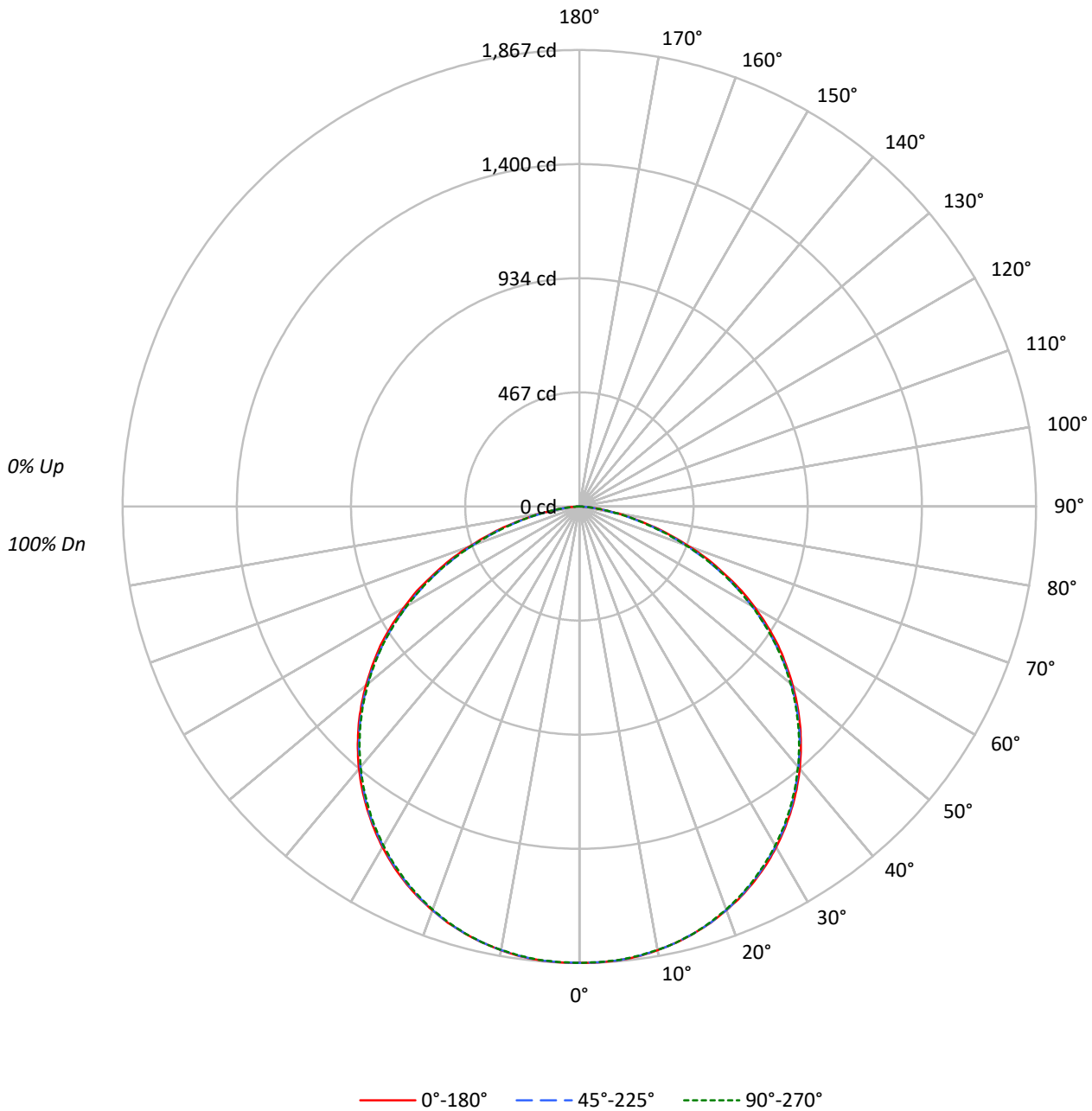
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5275.5 lumens
Efficiency: N/A
Efficacy: 119.6 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°	2511	2511	2511
5°	2516	2516	2515
10°	2518	2517	2516
15°	2519	2518	2518
20°	2516	2515	2512
25°	2512	2507	2503
30°	2500	2493	2488
35°	2484	2477	2469
40°	2462	2447	2443
45°	2430	2416	2409
50°	2385	2366	2359
55°	2328	2295	2292
60°	2231	2192	2192
65°	2088	2039	2045
70°	1878	1821	1816
75°	1577	1514	1508
80°	1152	1095	1141
85°	651	599	610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2430 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	3.4
10°-20°	510.4	9.7
20°-30°	778.2	14.8
30°-40°	942.9	17.9
40°-50°	979.4	18.6
50°-60°	876.1	16.6
60°-70°	638.5	12.1
70°-80°	316.2	6.0
80°-90°	56.5	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°	1465.8	27.8
0°-40°	2408.7	45.7
0°-60°	4264.2	80.8
0°-90°	5275.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5275.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1863	1864	1863	1863	1862	177
15°	1808	1808	1808	1809	1808	511
25°	1692	1690	1688	1688	1686	780
35°	1512	1510	1508	1506	1503	946
45°	1277	1274	1270	1267	1266	984
55°	993	985	978	978	977	884
65°	656	650	640	643	642	650
75°	303	299	291	297	290	323
85°	42	39	39	40	40	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1866.6	1866.6	1866.6	1866.6	1866.6
2.5°	1866.6	1865.9	1865.9	1866.6	1865.2
5°	1863.2	1863.9	1863.2	1863.2	1861.9
7.5°	1855.9	1855.2	1854.5	1855.2	1853.2
10°	1843.1	1843.1	1842.5	1843.1	1841.8
12.5°	1827.7	1827.7	1827.7	1828.4	1827.7
15°	1808.3	1807.6	1807.6	1809.0	1807.6
17.5°	1785.5	1784.9	1784.9	1784.2	1782.9
20°	1757.4	1757.4	1756.7	1756.1	1754.1
22.5°	1727.3	1726.6	1724.6	1724.6	1721.9
25°	1691.8	1689.8	1688.4	1687.7	1685.7
27.5°	1652.9	1650.2	1648.2	1646.9	1644.9
30°	1609.4	1606.7	1604.7	1602.7	1601.4
32.5°	1562.5	1561.2	1557.8	1557.1	1554.5
35°	1512.3	1510.3	1508.3	1505.6	1502.9
37.5°	1458.7	1456.7	1452.0	1450.7	1448.7
40°	1401.8	1399.1	1393.1	1393.1	1391.1
42.5°	1340.8	1338.1	1334.1	1331.4	1330.1
45°	1277.2	1274.5	1269.8	1267.2	1265.8
47.5°	1209.6	1207.5	1202.2	1200.2	1198.2
50°	1139.2	1136.6	1130.5	1129.2	1127.2
52.5°	1065.6	1064.2	1056.2	1055.5	1053.5
55°	992.6	985.2	978.5	978.5	977.2
57.5°	912.2	906.8	898.1	898.1	896.8
60°	829.1	824.5	814.4	815.7	814.4
62.5°	748.1	738.1	728.7	732.7	729.3
65°	655.7	650.3	640.3	643.0	642.3
67.5°	571.3	561.2	551.9	557.2	554.5
70°	477.5	472.2	462.8	468.1	461.5
72.5°	389.1	384.4	375.1	381.1	374.4
75°	303.4	298.7	291.3	296.7	290.0
77.5°	222.4	219.0	212.3	217.7	219.0
80°	148.7	144.7	141.3	146.0	147.3
82.5°	87.1	84.4	83.0	83.7	87.1
85°	42.2	38.8	38.8	39.5	39.5
87.5°	11.4	10.0	11.4	12.1	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)