

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: P974198

Luminaire Tested: FLR2-24-55-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974198
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-L835-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L835-CP250
Ballast/Driver: -

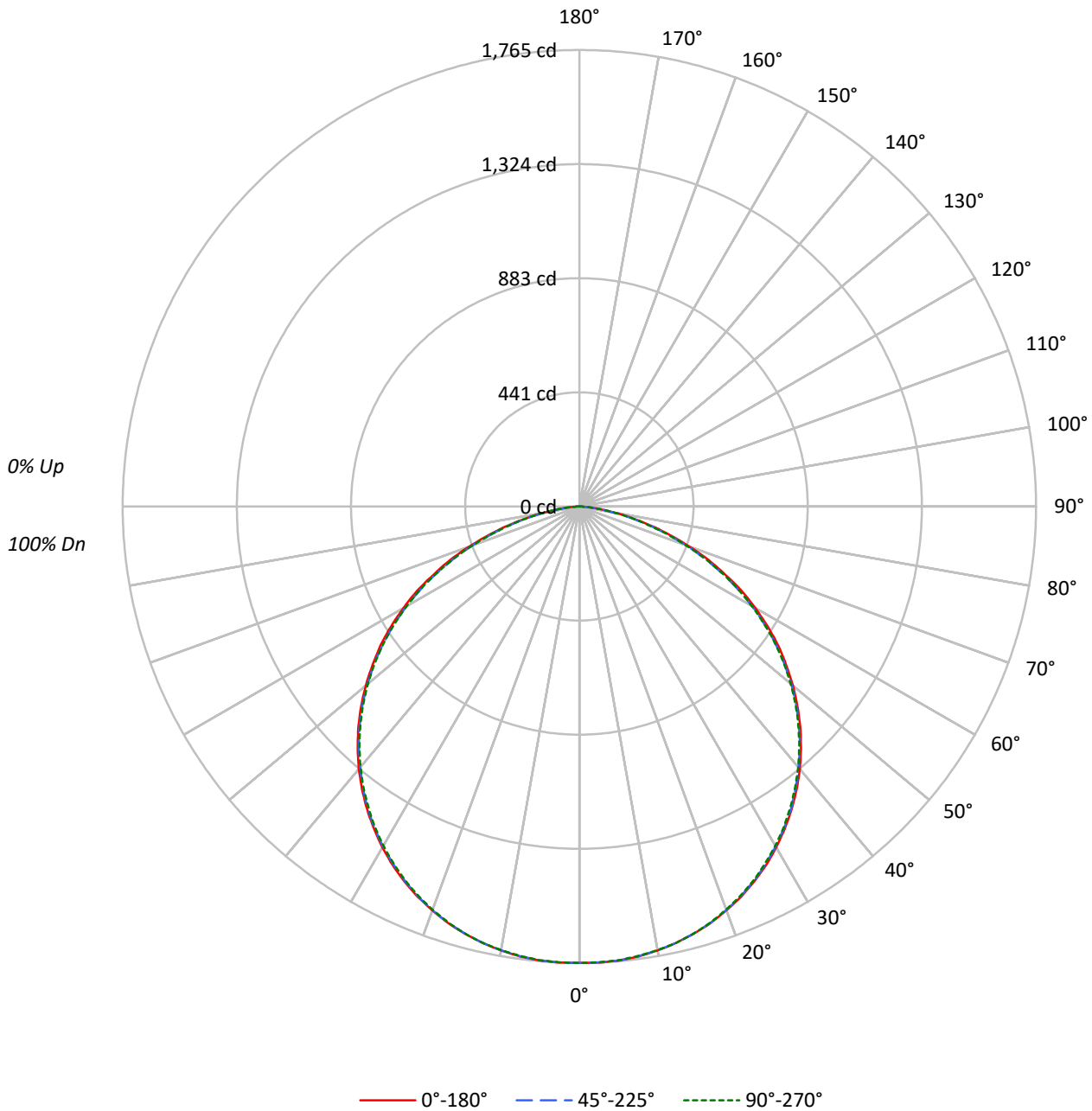
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4989.2 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°	2375	2375	2375
5°	2380	2380	2378
10°	2382	2381	2380
15°	2382	2381	2381
20°	2380	2379	2375
25°	2375	2371	2367
30°	2365	2358	2353
35°	2349	2343	2335
40°	2328	2314	2311
45°	2298	2285	2278
50°	2255	2238	2231
55°	2202	2171	2168
60°	2110	2073	2073
65°	1974	1928	1934
70°	1777	1722	1717
75°	1491	1432	1426
80°	1089	1035	1079
85°	616	567	577

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	3.4
10°-20°	482.7	9.7
20°-30°	736.0	14.8
30°-40°	891.7	17.9
40°-50°	926.2	18.6
50°-60°	828.6	16.6
60°-70°	603.9	12.1
70°-80°	299.1	6.0
80°-90°	53.5	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°	1386.3	27.8
0°-40°	2278.0	45.7
0°-60°	4032.8	80.8
0°-90°	4989.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4989.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1762	1763	1762	1762	1761	168
15°	1710	1710	1710	1711	1710	483
25°	1600	1598	1597	1596	1594	737
35°	1430	1428	1426	1424	1421	895
45°	1208	1205	1201	1198	1197	931
55°	939	932	925	925	924	836
65°	620	615	606	608	607	615
75°	287	282	276	281	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°	1765.3	1765.3	1765.3	1765.3	1765.3
2.5°	1765.3	1764.6	1764.6	1765.3	1764.0
5°	1762.1	1762.7	1762.1	1762.1	1760.8
7.5°	1755.1	1754.5	1753.9	1754.5	1752.6
10°	1743.1	1743.1	1742.5	1743.1	1741.8
12.5°	1728.5	1728.5	1728.5	1729.2	1728.5
15°	1710.2	1709.5	1709.5	1710.8	1709.5
17.5°	1688.6	1688.0	1688.0	1687.4	1686.1
20°	1662.0	1662.0	1661.4	1660.8	1658.9
22.5°	1633.5	1632.9	1631.0	1631.0	1628.5
25°	1600.0	1598.1	1596.8	1596.2	1594.3
27.5°	1563.2	1560.7	1558.8	1557.5	1555.6
30°	1522.1	1519.5	1517.6	1515.7	1514.5
32.5°	1477.7	1476.5	1473.3	1472.7	1470.1
35°	1430.2	1428.3	1426.4	1423.9	1421.3
37.5°	1379.5	1377.6	1373.2	1371.9	1370.0
40°	1325.7	1323.2	1317.5	1317.5	1315.6
42.5°	1268.1	1265.5	1261.7	1259.2	1257.9
45°	1207.9	1205.4	1200.9	1198.4	1197.1
47.5°	1143.9	1142.0	1136.9	1135.0	1133.1
50°	1077.4	1074.9	1069.2	1067.9	1066.0
52.5°	1007.7	1006.5	998.9	998.2	996.3
55°	938.7	931.7	925.4	925.4	924.1
57.5°	862.7	857.6	849.4	849.4	848.1
60°	784.1	779.7	770.2	771.5	770.2
62.5°	707.5	698.0	689.1	692.9	689.8
65°	620.1	615.0	605.5	608.1	607.4
67.5°	540.3	530.8	521.9	527.0	524.5
70°	451.6	446.5	437.7	442.7	436.4
72.5°	368.0	363.6	354.7	360.4	354.1
75°	286.9	282.5	275.5	280.6	274.3
77.5°	210.3	207.1	200.8	205.9	207.1
80°	140.6	136.8	133.6	138.1	139.3
82.5°	82.3	79.8	78.5	79.2	82.3
85°	39.9	36.7	36.7	37.4	37.4
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)