

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: P974222

Luminaire Tested: FLR2-24-55-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974222
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L835-CA125
Ballast/Driver: -

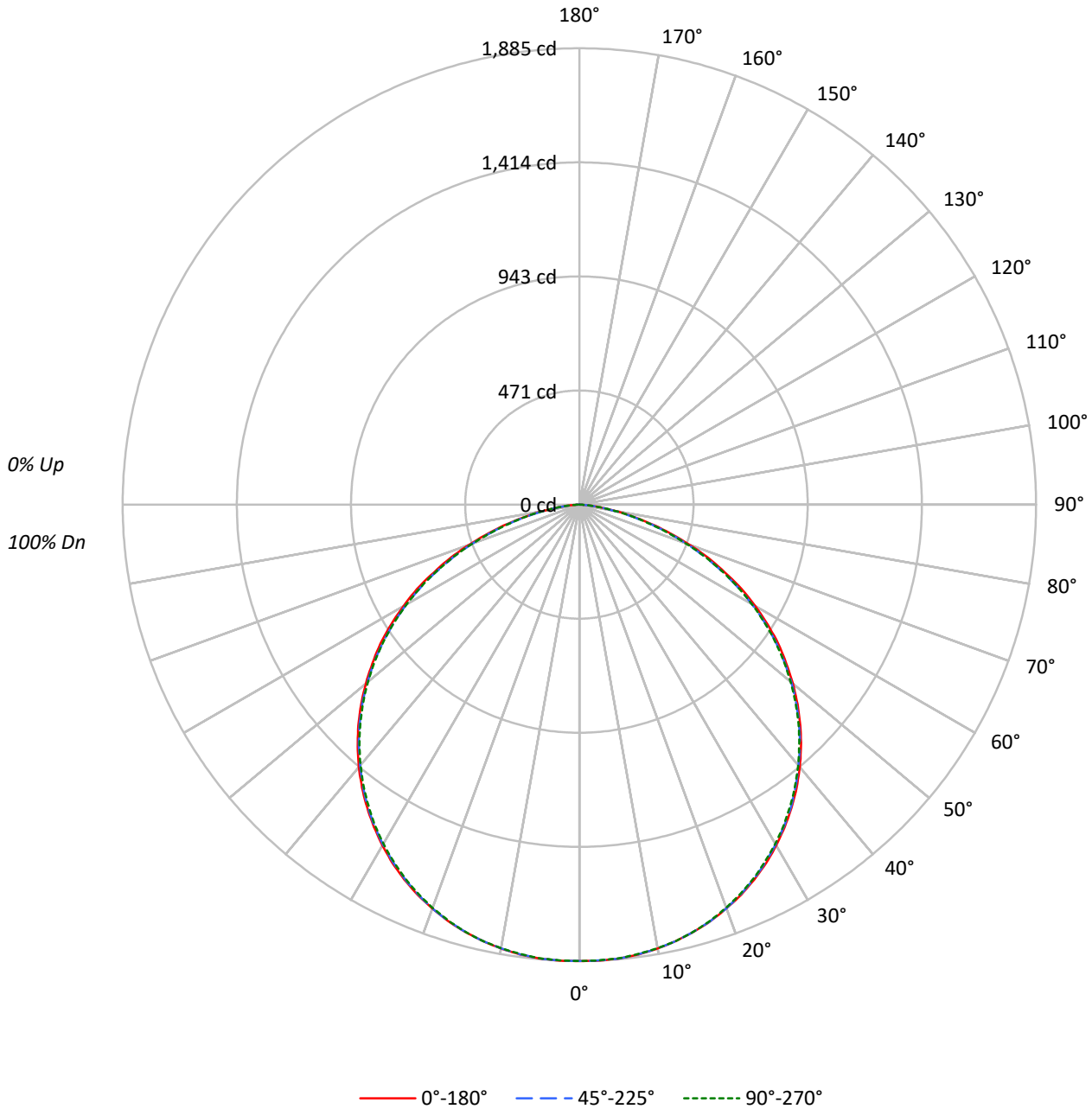
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5328.8 lumens
Efficiency: N/A
Efficacy: 120.8 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	100	100	100	100	100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85	85	85	85	85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	60	60	60	60	60	60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51	51	51	51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	38	38	38	38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	30	30	30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27	27	27	27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25	25	25	25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2537	2537	2537
5°	2542	2542	2540
10°	2544	2543	2542
15°	2544	2543	2543
20°	2542	2541	2537
25°	2537	2532	2528
30°	2526	2518	2513
35°	2509	2502	2494
40°	2487	2471	2468
45°	2455	2441	2433
50°	2409	2390	2383
55°	2352	2319	2315
60°	2254	2214	2214
65°	2109	2059	2066
70°	1897	1839	1834
75°	1593	1530	1523
80°	1164	1106	1153
85°	658	605	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2455 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.4
10°-20°	515.6	9.7
20°-30°	786.1	14.8
30°-40°	952.4	17.9
40°-50°	989.3	18.6
50°-60°	885.0	16.6
60°-70°	645.0	12.1
70°-80°	319.4	6.0
80°-90°	57.1	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°	1480.6	27.8
0°-40°	2433.0	45.7
0°-60°	4307.3	80.8
0°-90°	5328.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5328.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1882	1883	1882	1882	1881	179
15°	1827	1826	1826	1827	1826	516
25°	1709	1707	1706	1705	1703	788
35°	1528	1526	1524	1521	1518	955
45°	1290	1287	1283	1280	1279	994
55°	1003	995	988	988	987	893
65°	662	657	647	649	649	657
75°	306	302	294	300	293	327
85°	43	39	39	40	40	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.4	1885.4	1885.4	1885.4	1885.4
2.5°	1885.4	1884.7	1884.7	1885.4	1884.1
5°	1882.0	1882.7	1882.0	1882.0	1880.7
7.5°	1874.6	1873.9	1873.2	1873.9	1871.9
10°	1861.7	1861.7	1861.1	1861.7	1860.4
12.5°	1846.2	1846.2	1846.2	1846.9	1846.2
15°	1826.6	1825.9	1825.9	1827.2	1825.9
17.5°	1803.6	1802.9	1802.9	1802.2	1800.9
20°	1775.2	1775.2	1774.5	1773.8	1771.8
22.5°	1744.7	1744.0	1742.0	1742.0	1739.3
25°	1708.9	1706.8	1705.5	1704.8	1702.8
27.5°	1669.6	1666.9	1664.9	1663.5	1661.5
30°	1625.6	1622.9	1620.9	1618.9	1617.5
32.5°	1578.3	1576.9	1573.6	1572.9	1570.2
35°	1527.6	1525.5	1523.5	1520.8	1518.1
37.5°	1473.4	1471.4	1466.7	1465.3	1463.3
40°	1415.9	1413.2	1407.1	1407.1	1405.1
42.5°	1354.4	1351.7	1347.6	1344.9	1343.5
45°	1290.1	1287.4	1282.7	1280.0	1278.6
47.5°	1221.8	1219.7	1214.3	1212.3	1210.3
50°	1150.7	1148.0	1141.9	1140.6	1138.6
52.5°	1076.3	1075.0	1066.9	1066.2	1064.1
55°	1002.6	995.1	988.4	988.4	987.0
57.5°	921.4	916.0	907.2	907.2	905.8
60°	837.5	832.8	822.6	824.0	822.6
62.5°	755.7	745.5	736.0	740.1	736.7
65°	662.3	656.9	646.7	649.4	648.8
67.5°	577.1	566.9	557.4	562.9	560.1
70°	482.3	476.9	467.5	472.9	466.1
72.5°	393.1	388.3	378.8	384.9	378.2
75°	306.5	301.7	294.3	299.7	292.9
77.5°	224.6	221.2	214.5	219.9	221.2
80°	150.2	146.1	142.7	147.5	148.8
82.5°	87.9	85.2	83.9	84.6	87.9
85°	42.6	39.2	39.2	39.9	39.9
87.5°	11.5	10.1	11.5	12.2	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)