

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: P974214

Luminaire Tested: FLR2-24-55-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974214
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L835-CA080
Ballast/Driver: -

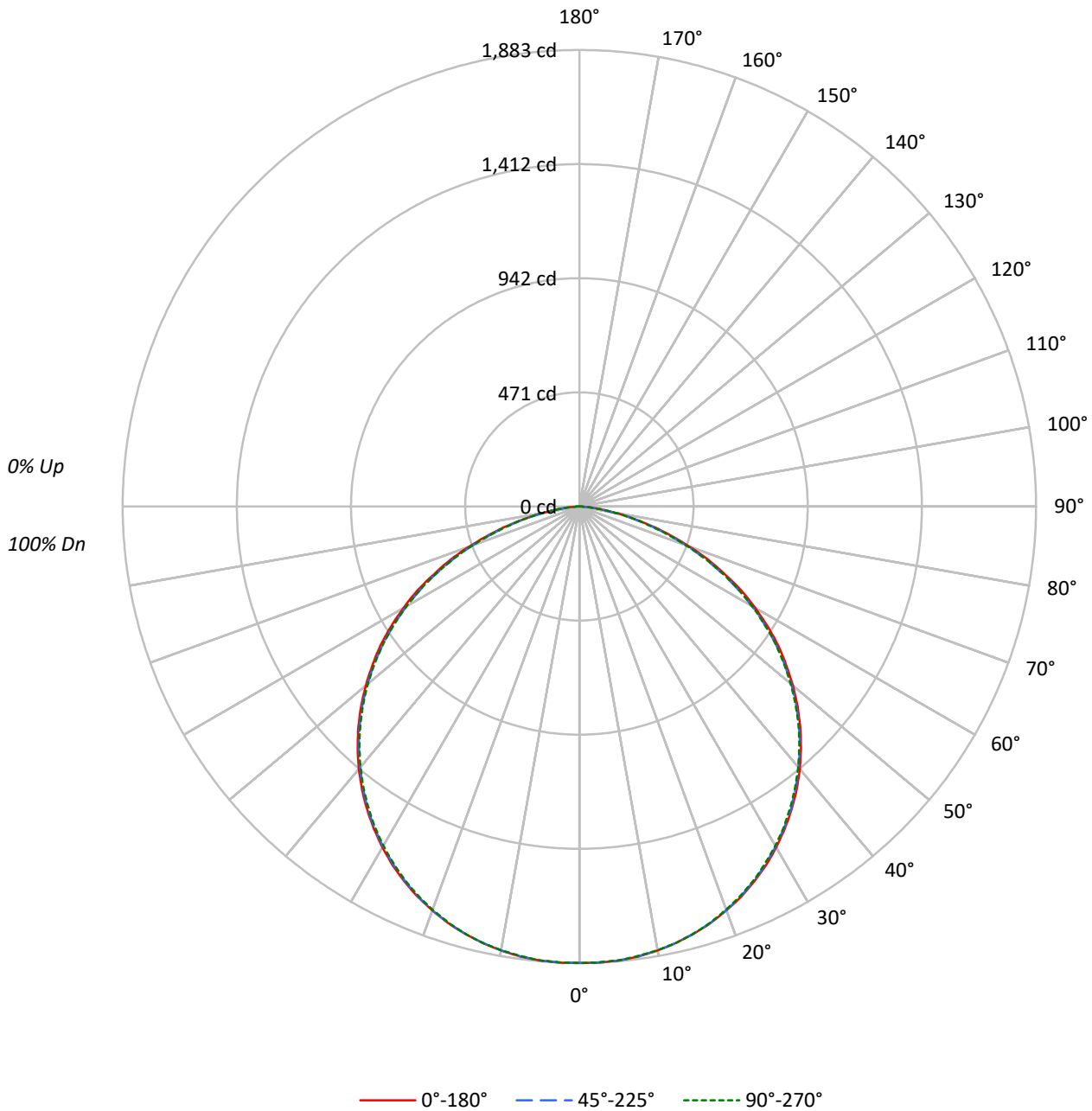
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5323.0 lumens
Efficiency: N/A
Efficacy: 120.7 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: P974214
CATALOG NUMBER: FLR2-24-55-L835-CA080

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2534	2534	2534
5°	2539	2539	2537
10°	2541	2540	2539
15°	2542	2541	2541
20°	2539	2538	2534
25°	2534	2529	2525
30°	2523	2516	2510
35°	2506	2500	2491
40°	2484	2469	2465
45°	2452	2438	2430
50°	2406	2388	2381
55°	2349	2316	2313
60°	2251	2211	2211
65°	2106	2057	2063
70°	1895	1837	1832
75°	1591	1528	1521
80°	1162	1105	1152
85°	658	605	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2452 cd/sqm



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 CATALOG NUMBER: FLR2-24-55-L835-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	3.4
10°-20°	515.0	9.7
20°-30°	785.2	14.8
30°-40°	951.4	17.9
40°-50°	988.2	18.6
50°-60°	884.0	16.6
60°-70°	644.3	12.1
70°-80°	319.1	6.0
80°-90°	57.0	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°	1479.0	27.8
0°-40°	2430.4	45.7
0°-60°	4302.6	80.8
0°-90°	5323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1883	1883	1883	1883	1883	
5°	1880	1881	1880	1880	1879	179
15°	1825	1824	1824	1825	1824	515
25°	1707	1705	1704	1703	1701	787
35°	1526	1524	1522	1519	1516	954
45°	1289	1286	1281	1279	1277	993
55°	1002	994	987	987	986	892
65°	662	656	646	649	648	656
75°	306	301	294	299	293	326
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°	1883.4	1883.4	1883.4	1883.4	1883.4
2.5°	1883.4	1882.7	1882.7	1883.4	1882.0
5°	1880.0	1880.7	1880.0	1880.0	1878.7
7.5°	1872.6	1871.9	1871.2	1871.9	1869.9
10°	1859.7	1859.7	1859.1	1859.7	1858.4
12.5°	1844.2	1844.2	1844.2	1844.9	1844.2
15°	1824.6	1823.9	1823.9	1825.3	1823.9
17.5°	1801.6	1800.9	1800.9	1800.3	1798.9
20°	1773.2	1773.2	1772.6	1771.9	1769.9
22.5°	1742.8	1742.2	1740.1	1740.1	1737.4
25°	1707.0	1705.0	1703.6	1703.0	1700.9
27.5°	1667.8	1665.1	1663.1	1661.7	1659.7
30°	1623.9	1621.2	1619.2	1617.1	1615.8
32.5°	1576.6	1575.2	1571.9	1571.2	1568.5
35°	1525.9	1523.9	1521.9	1519.1	1516.4
37.5°	1471.8	1469.8	1465.1	1463.7	1461.7
40°	1414.4	1411.7	1405.6	1405.6	1403.6
42.5°	1352.9	1350.2	1346.2	1343.4	1342.1
45°	1288.7	1286.0	1281.3	1278.6	1277.2
47.5°	1220.5	1218.4	1213.0	1211.0	1209.0
50°	1149.5	1146.8	1140.7	1139.4	1137.3
52.5°	1075.2	1073.8	1065.7	1065.0	1063.0
55°	1001.5	994.1	987.3	987.3	986.0
57.5°	920.4	915.0	906.2	906.2	904.9
60°	836.6	831.9	821.7	823.1	821.7
62.5°	754.8	744.7	735.2	739.3	735.9
65°	661.6	656.2	646.0	648.7	648.1
67.5°	576.4	566.3	556.8	562.2	559.5
70°	481.8	476.4	467.0	472.4	465.6
72.5°	392.6	387.9	378.4	384.5	377.8
75°	306.1	301.4	294.0	299.4	292.6
77.5°	224.4	221.0	214.2	219.6	221.0
80°	150.0	146.0	142.6	147.3	148.7
82.5°	87.9	85.1	83.8	84.5	87.9
85°	42.6	39.2	39.2	39.9	39.9
87.5°	11.5	10.1	11.5	12.2	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)