

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: P974190

Luminaire Tested: FLR2-24-55-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974190
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L835-CP187
Ballast/Driver: -

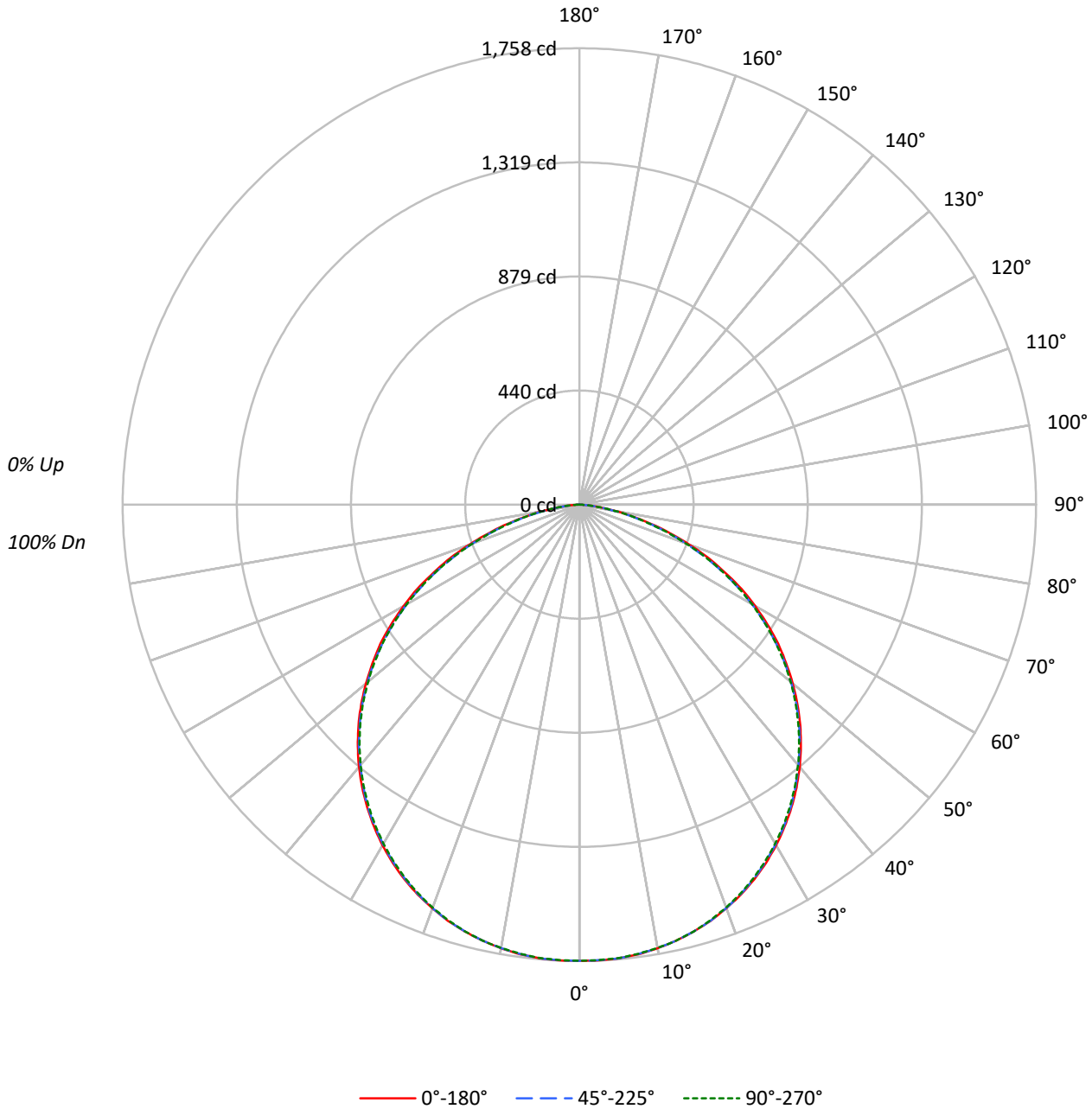
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4967.2 lumens
Efficiency: N/A
Efficacy: 112.6 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									
RC	80									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	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°	2365	2365	2365
5°	2369	2369	2368
10°	2371	2370	2369
15°	2372	2371	2371
20°	2369	2368	2365
25°	2365	2360	2356
30°	2354	2347	2343
35°	2339	2333	2324
40°	2318	2304	2301
45°	2288	2275	2268
50°	2245	2228	2222
55°	2192	2161	2158
60°	2101	2063	2063
65°	1966	1919	1926
70°	1769	1714	1709
75°	1485	1426	1420
80°	1085	1031	1075
85°	613	565	574

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2288 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	3.4
10°-20°	480.6	9.7
20°-30°	732.7	14.8
30°-40°	887.8	17.9
40°-50°	922.2	18.6
50°-60°	824.9	16.6
60°-70°	601.2	12.1
70°-80°	297.7	6.0
80°-90°	53.2	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°	1380.1	27.8
0°-40°	2267.9	45.7
0°-60°	4015.0	80.8
0°-90°	4967.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4967.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1754	1755	1754	1754	1753	167
15°	1703	1702	1702	1703	1702	481
25°	1593	1591	1590	1589	1587	734
35°	1424	1422	1420	1418	1415	891
45°	1203	1200	1196	1193	1192	927
55°	935	928	921	921	920	833
65°	617	612	603	605	605	612
75°	286	281	274	279	273	305
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°	1757.5	1757.5	1757.5	1757.5	1757.5
2.5°	1757.5	1756.9	1756.9	1757.5	1756.2
5°	1754.3	1755.0	1754.3	1754.3	1753.1
7.5°	1747.4	1746.8	1746.1	1746.8	1744.9
10°	1735.4	1735.4	1734.8	1735.4	1734.2
12.5°	1720.9	1720.9	1720.9	1721.6	1720.9
15°	1702.6	1702.0	1702.0	1703.3	1702.0
17.5°	1681.2	1680.6	1680.6	1679.9	1678.7
20°	1654.7	1654.7	1654.1	1653.4	1651.6
22.5°	1626.3	1625.7	1623.8	1623.8	1621.3
25°	1592.9	1591.0	1589.8	1589.1	1587.2
27.5°	1556.3	1553.8	1551.9	1550.7	1548.8
30°	1515.3	1512.8	1510.9	1509.0	1507.8
32.5°	1471.2	1469.9	1466.8	1466.2	1463.6
35°	1423.9	1422.0	1420.1	1417.6	1415.1
37.5°	1373.5	1371.6	1367.2	1365.9	1364.0
40°	1319.9	1317.3	1311.7	1311.7	1309.8
42.5°	1262.5	1259.9	1256.2	1253.6	1252.4
45°	1202.6	1200.0	1195.6	1193.1	1191.8
47.5°	1138.9	1137.0	1131.9	1130.0	1128.2
50°	1072.7	1070.1	1064.5	1063.2	1061.3
52.5°	1003.3	1002.0	994.5	993.8	991.9
55°	934.6	927.6	921.3	921.3	920.1
57.5°	858.9	853.8	845.6	845.6	844.4
60°	780.7	776.3	766.8	768.1	766.8
62.5°	704.4	694.9	686.1	689.9	686.7
65°	617.4	612.3	602.9	605.4	604.8
67.5°	537.9	528.4	519.6	524.7	522.1
70°	449.6	444.6	435.7	440.8	434.5
72.5°	366.4	362.0	353.1	358.8	352.5
75°	285.7	281.2	274.3	279.4	273.1
77.5°	209.4	206.2	199.9	204.9	206.2
80°	140.0	136.2	133.1	137.5	138.7
82.5°	82.0	79.5	78.2	78.8	82.0
85°	39.7	36.6	36.6	37.2	37.2
87.5°	10.7	9.5	10.7	11.4	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)