

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: P974254

Luminaire Tested: FLR2-24-55-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974254
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-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L935-CP250
Ballast/Driver: -

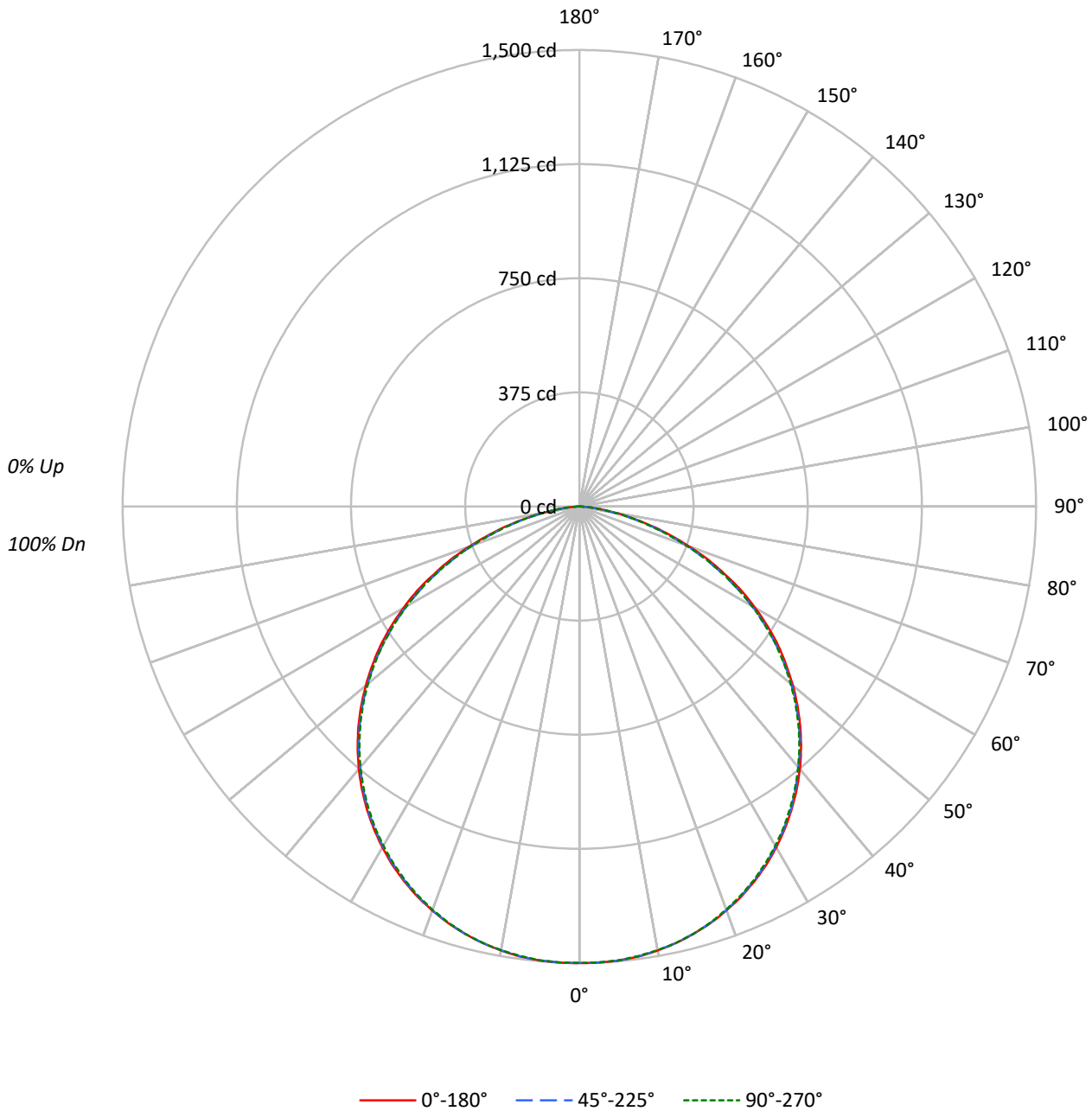
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4240.9 lumens
Efficiency: N/A
Efficacy: 96.2 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	2019	2019	2019
5°	2023	2023	2021
10°	2024	2024	2023
15°	2025	2024	2024
20°	2023	2022	2019
25°	2019	2015	2012
30°	2010	2004	2000
35°	1997	1992	1984
40°	1979	1967	1964
45°	1954	1942	1936
50°	1917	1902	1897
55°	1872	1845	1843
60°	1794	1762	1762
65°	1678	1639	1644
70°	1510	1463	1459
75°	1268	1218	1212
80°	926	880	917
85°	523	482	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1954 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.4
10°-20°	410.3	9.7
20°-30°	625.6	14.8
30°-40°	757.9	17.9
40°-50°	787.3	18.6
50°-60°	704.3	16.6
60°-70°	513.3	12.1
70°-80°	254.2	6.0
80°-90°	45.4	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°	1178.3	27.8
0°-40°	1936.3	45.7
0°-60°	3427.9	80.8
0°-90°	4240.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1498	1498	1498	1498	1497	142
15°	1454	1453	1453	1454	1453	410
25°	1360	1358	1357	1357	1355	627
35°	1216	1214	1212	1210	1208	760
45°	1027	1025	1021	1019	1018	791
55°	798	792	787	787	786	711
65°	527	523	515	517	516	523
75°	244	240	234	238	233	260
85°	34	31	31	32	32	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1500.5	1500.5	1500.5	1500.5	1500.5
2.5°	1500.5	1499.9	1499.9	1500.5	1499.4
5°	1497.8	1498.3	1497.8	1497.8	1496.7
7.5°	1491.9	1491.3	1490.8	1491.3	1489.7
10°	1481.6	1481.6	1481.1	1481.6	1480.6
12.5°	1469.3	1469.3	1469.3	1469.8	1469.3
15°	1453.6	1453.1	1453.1	1454.2	1453.1
17.5°	1435.3	1434.8	1434.8	1434.3	1433.2
20°	1412.7	1412.7	1412.2	1411.7	1410.0
22.5°	1388.5	1388.0	1386.3	1386.3	1384.2
25°	1360.0	1358.4	1357.3	1356.7	1355.1
27.5°	1328.7	1326.6	1325.0	1323.9	1322.3
30°	1293.7	1291.6	1290.0	1288.4	1287.3
32.5°	1256.1	1255.0	1252.3	1251.8	1249.6
35°	1215.7	1214.1	1212.5	1210.3	1208.1
37.5°	1172.6	1171.0	1167.2	1166.1	1164.5
40°	1126.8	1124.7	1119.8	1119.8	1118.2
42.5°	1077.9	1075.7	1072.5	1070.3	1069.2
45°	1026.7	1024.6	1020.8	1018.6	1017.6
47.5°	972.3	970.7	966.4	964.8	963.2
50°	915.8	913.6	908.8	907.7	906.1
52.5°	856.6	855.5	849.0	848.5	846.9
55°	797.9	792.0	786.6	786.6	785.5
57.5°	733.3	729.0	722.0	722.0	720.9
60°	666.5	662.8	654.7	655.8	654.7
62.5°	601.4	593.3	585.8	589.0	586.3
65°	527.1	522.8	514.7	516.9	516.3
67.5°	459.2	451.2	443.6	447.9	445.8
70°	383.9	379.6	372.0	376.3	370.9
72.5°	312.8	309.0	301.5	306.3	301.0
75°	243.9	240.1	234.2	238.5	233.1
77.5°	178.7	176.1	170.7	175.0	176.1
80°	119.5	116.3	113.6	117.4	118.4
82.5°	70.0	67.8	66.8	67.3	70.0
85°	33.9	31.2	31.2	31.8	31.8
87.5°	9.2	8.1	9.2	9.7	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)