

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: P974230

Luminaire Tested: FLR2-24-55-L935-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974230
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L935-CP080
Ballast/Driver: -

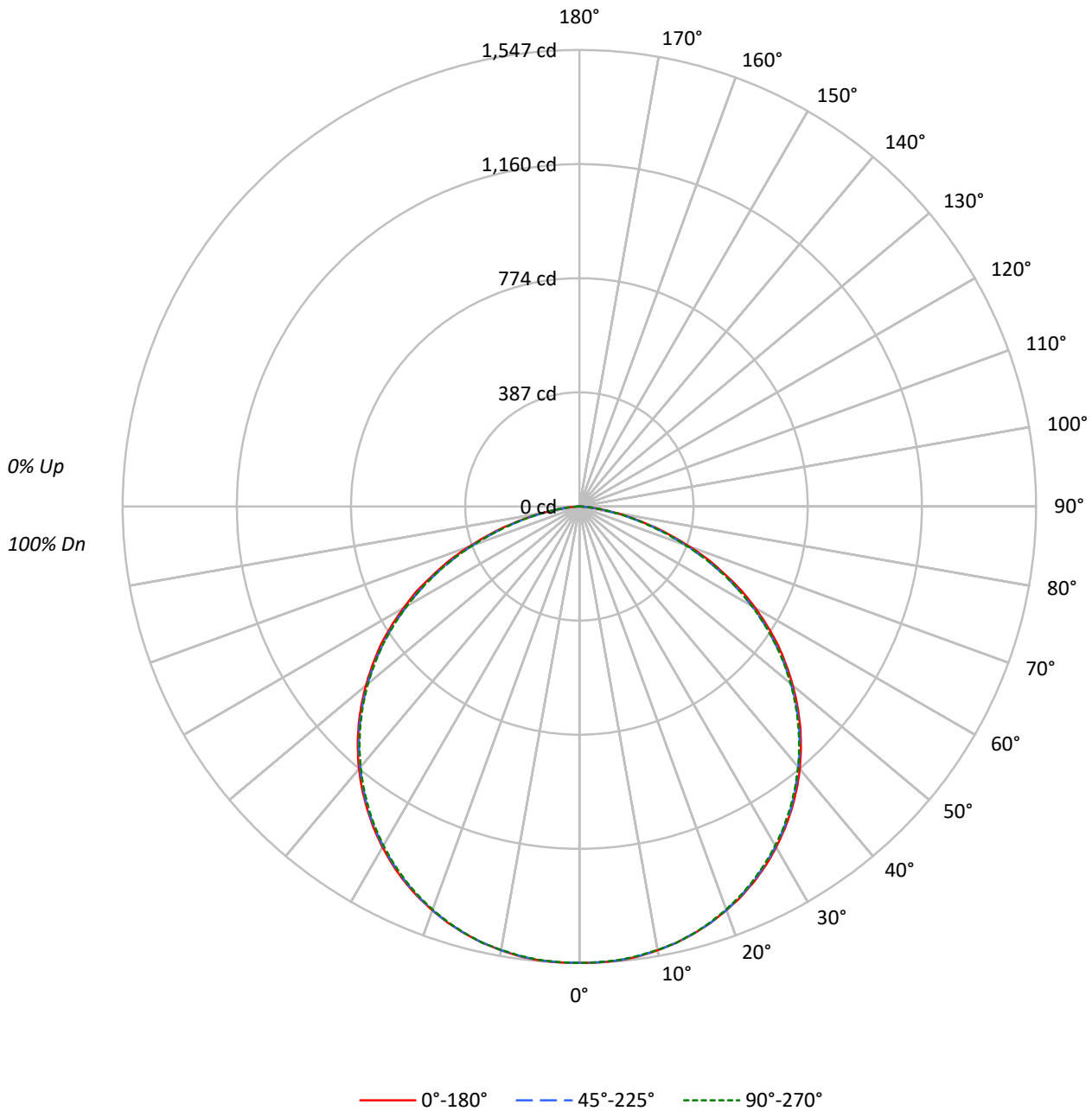
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4371.6 lumens
Efficiency: N/A
Efficacy: 99.1 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 (A_{in}): 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°	2081	2081	2081
5°	2085	2085	2084
10°	2087	2086	2085
15°	2087	2087	2087
20°	2085	2084	2081
25°	2081	2077	2074
30°	2072	2066	2062
35°	2058	2053	2046
40°	2040	2028	2025
45°	2014	2002	1996
50°	1976	1961	1955
55°	1929	1902	1899
60°	1849	1816	1816
65°	1730	1689	1694
70°	1557	1509	1504
75°	1307	1255	1249
80°	955	907	946
85°	540	497	505

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2014 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	3.4
10°-20°	423.0	9.7
20°-30°	644.9	14.8
30°-40°	781.3	17.9
40°-50°	811.6	18.6
50°-60°	726.0	16.6
60°-70°	529.1	12.1
70°-80°	262.1	6.0
80°-90°	46.8	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°	1214.7	27.8
0°-40°	1996.0	45.7
0°-60°	3533.6	80.8
0°-90°	4371.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4371.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1547	1547	1547	1547	1547	
5°	1544	1545	1544	1544	1543	147
15°	1498	1498	1498	1499	1498	423
25°	1402	1400	1399	1399	1397	646
35°	1253	1252	1250	1248	1245	784
45°	1058	1056	1052	1050	1049	816
55°	822	816	811	811	810	733
65°	543	539	531	533	532	539
75°	251	248	241	246	240	268
85°	35	32	32	33	33	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1546.8	1546.8	1546.8	1546.8	1546.8
2.5°	1546.8	1546.2	1546.2	1546.8	1545.7
5°	1544.0	1544.6	1544.0	1544.0	1542.9
7.5°	1537.9	1537.3	1536.8	1537.3	1535.7
10°	1527.4	1527.4	1526.8	1527.4	1526.2
12.5°	1514.6	1514.6	1514.6	1515.1	1514.6
15°	1498.5	1497.9	1497.9	1499.0	1497.9
17.5°	1479.6	1479.1	1479.1	1478.5	1477.4
20°	1456.3	1456.3	1455.8	1455.2	1453.5
22.5°	1431.3	1430.8	1429.1	1429.1	1426.9
25°	1401.9	1400.3	1399.1	1398.6	1396.9
27.5°	1369.7	1367.5	1365.8	1364.7	1363.1
30°	1333.7	1331.4	1329.8	1328.1	1327.0
32.5°	1294.8	1293.7	1290.9	1290.4	1288.1
35°	1253.2	1251.5	1249.9	1247.6	1245.4
37.5°	1208.8	1207.1	1203.2	1202.1	1200.5
40°	1161.6	1159.4	1154.4	1154.4	1152.7
42.5°	1111.1	1108.9	1105.6	1103.3	1102.2
45°	1058.4	1056.2	1052.3	1050.1	1048.9
47.5°	1002.3	1000.7	996.2	994.6	992.9
50°	944.0	941.8	936.8	935.7	934.1
52.5°	883.0	881.9	875.2	874.7	873.0
55°	822.5	816.4	810.8	810.8	809.7
57.5°	755.9	751.5	744.3	744.3	743.1
60°	687.1	683.2	674.9	676.0	674.9
62.5°	619.9	611.6	603.8	607.2	604.4
65°	543.3	538.9	530.6	532.8	532.2
67.5°	473.4	465.1	457.3	461.8	459.5
70°	395.7	391.3	383.5	387.9	382.4
72.5°	322.5	318.6	310.8	315.8	310.2
75°	251.4	247.5	241.4	245.9	240.3
77.5°	184.3	181.5	175.9	180.4	181.5
80°	123.2	119.9	117.1	121.0	122.1
82.5°	72.1	69.9	68.8	69.4	72.1
85°	35.0	32.2	32.2	32.7	32.7
87.5°	9.4	8.3	9.4	10.0	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)