

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: P974238

Luminaire Tested: FLR2-24-55-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974238
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L935-CP125
Ballast/Driver: -

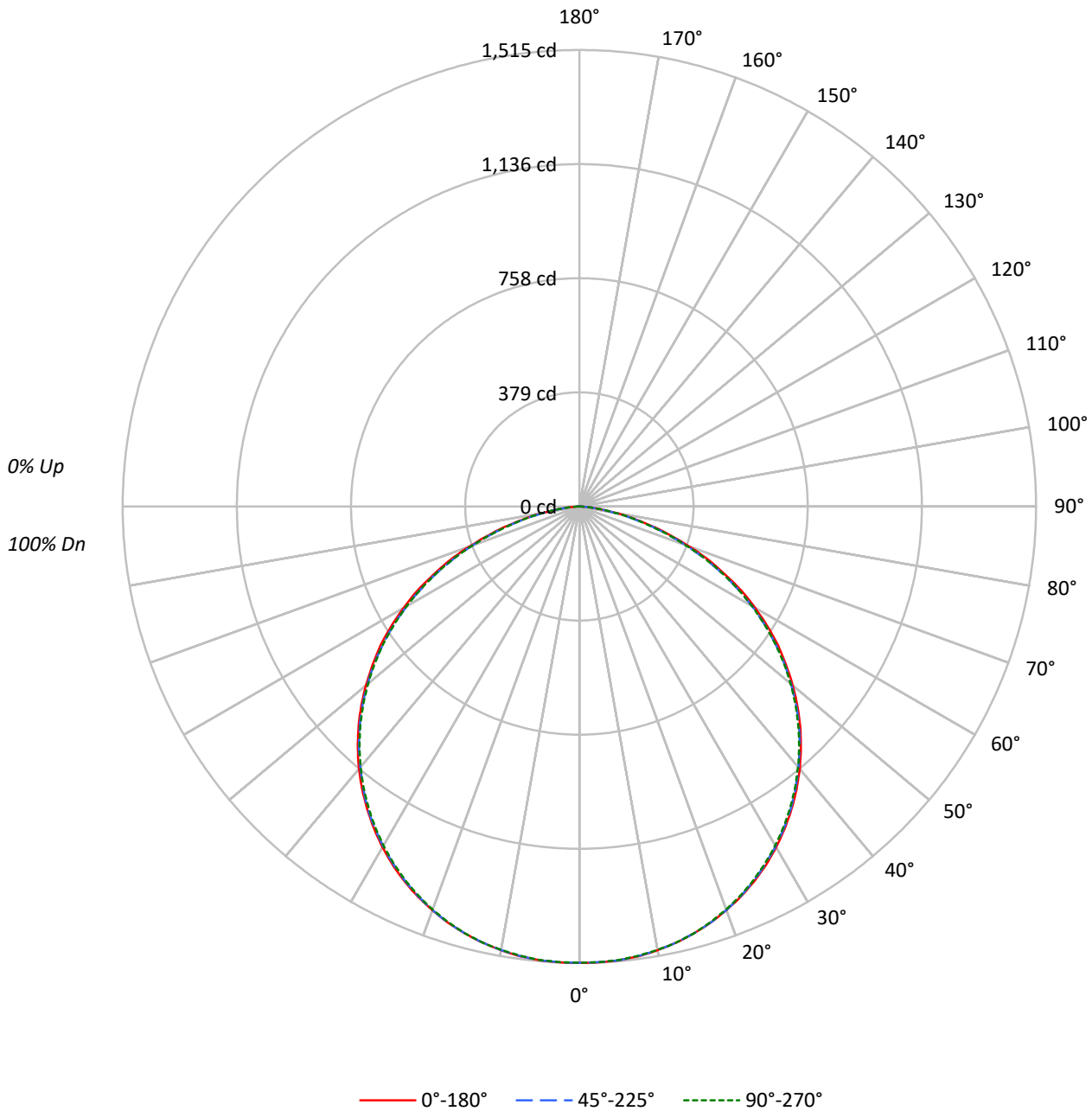
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4280.7 lumens
Efficiency: N/A
Efficacy: 97.1 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 (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															
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°	2038	2038	2038
5°	2042	2042	2041
10°	2043	2043	2042
15°	2044	2043	2043
20°	2042	2041	2038
25°	2038	2034	2031
30°	2029	2023	2019
35°	2016	2010	2003
40°	1998	1985	1982
45°	1972	1961	1954
50°	1935	1920	1914
55°	1889	1863	1860
60°	1810	1778	1778
65°	1694	1654	1659
70°	1524	1477	1473
75°	1280	1229	1223
80°	934	889	927
85°	528	486	496

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1972 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	3.4
10°-20°	414.2	9.7
20°-30°	631.5	14.8
30°-40°	765.1	17.9
40°-50°	794.7	18.6
50°-60°	710.9	16.6
60°-70°	518.1	12.1
70°-80°	256.6	6.0
80°-90°	45.9	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°	1189.4	27.8
0°-40°	1954.5	45.7
0°-60°	3460.1	80.8
0°-90°	4280.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4280.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1512	1512	1512	1512	1511	144
15°	1467	1467	1467	1468	1467	414
25°	1373	1371	1370	1370	1368	633
35°	1227	1226	1224	1222	1220	768
45°	1036	1034	1030	1028	1027	799
55°	805	799	794	794	793	718
65°	532	528	520	522	521	527
75°	246	242	236	241	235	262
85°	34	32	32	32	32	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.6	1514.6	1514.6	1514.6	1514.6
2.5°	1514.6	1514.0	1514.0	1514.6	1513.5
5°	1511.9	1512.4	1511.9	1511.9	1510.8
7.5°	1505.9	1505.3	1504.8	1505.3	1503.7
10°	1495.6	1495.6	1495.0	1495.6	1494.5
12.5°	1483.1	1483.1	1483.1	1483.6	1483.1
15°	1467.3	1466.8	1466.8	1467.8	1466.8
17.5°	1448.8	1448.3	1448.3	1447.7	1446.7
20°	1426.0	1426.0	1425.5	1424.9	1423.3
22.5°	1401.5	1401.0	1399.4	1399.4	1397.2
25°	1372.7	1371.1	1370.0	1369.5	1367.9
27.5°	1341.2	1339.1	1337.4	1336.3	1334.7
30°	1305.9	1303.7	1302.1	1300.5	1299.4
32.5°	1267.9	1266.8	1264.1	1263.5	1261.3
35°	1227.1	1225.5	1223.8	1221.7	1219.5
37.5°	1183.6	1182.0	1178.2	1177.1	1175.5
40°	1137.4	1135.3	1130.4	1130.4	1128.7
42.5°	1088.0	1085.8	1082.5	1080.4	1079.3
45°	1036.4	1034.2	1030.4	1028.2	1027.1
47.5°	981.5	979.8	975.5	973.9	972.2
50°	924.4	922.2	917.3	916.2	914.6
52.5°	864.6	863.5	857.0	856.5	854.8
55°	805.4	799.4	794.0	794.0	792.9
57.5°	740.2	735.8	728.8	728.8	727.7
60°	672.8	669.0	660.8	661.9	660.8
62.5°	607.0	598.9	591.3	594.5	591.8
65°	532.0	527.7	519.5	521.7	521.2
67.5°	463.6	455.4	447.8	452.1	450.0
70°	387.5	383.1	375.5	379.9	374.4
72.5°	315.7	311.9	304.3	309.2	303.8
75°	246.2	242.4	236.4	240.7	235.3
77.5°	180.4	177.7	172.3	176.6	177.7
80°	120.6	117.4	114.7	118.5	119.6
82.5°	70.6	68.5	67.4	67.9	70.6
85°	34.2	31.5	31.5	32.1	32.1
87.5°	9.2	8.2	9.2	9.8	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)