

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: P974165

Luminaire Tested: FLR2-24-45-L930-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974165
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: FLR2-24-45-L930-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L930-CA125
Ballast/Driver: -

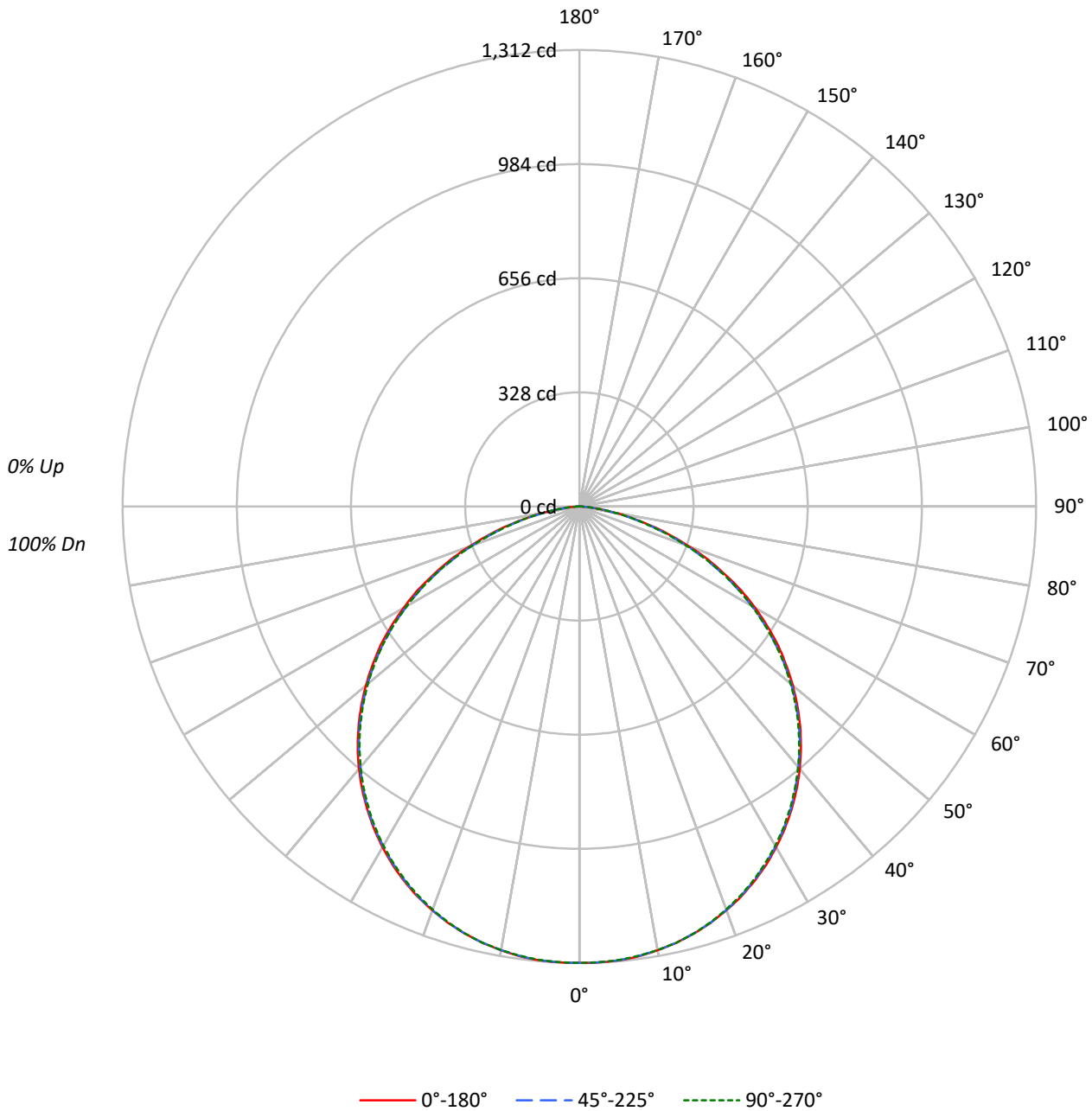
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3707.8 lumens
Efficiency: N/A
Efficacy: 104.2 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): 35.6
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°	1765	1765	1765
5°	1769	1769	1767
10°	1770	1769	1769
15°	1770	1770	1770
20°	1769	1768	1765
25°	1765	1762	1759
30°	1757	1752	1749
35°	1746	1741	1735
40°	1730	1720	1717
45°	1708	1698	1693
50°	1676	1663	1658
55°	1636	1613	1611
60°	1568	1540	1540
65°	1467	1433	1437
70°	1320	1280	1276
75°	1108	1065	1059
80°	810	769	803
85°	459	421	429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	3.4
10°-20°	358.7	9.7
20°-30°	547.0	14.8
30°-40°	662.7	17.9
40°-50°	688.4	18.6
50°-60°	615.8	16.6
60°-70°	448.8	12.1
70°-80°	222.2	6.0
80°-90°	39.7	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°	1030.2	27.8
0°-40°	1692.9	45.7
0°-60°	2997.0	80.8
0°-90°	3707.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1310	1310	1310	1310	1309	125
15°	1271	1270	1270	1271	1270	359
25°	1189	1188	1187	1186	1185	548
35°	1063	1062	1060	1058	1056	665
45°	898	896	892	891	890	692
55°	698	692	688	688	687	622
65°	461	457	450	452	451	457
75°	213	210	205	208	204	227
85°	30	27	27	28	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1311.9	1311.9	1311.9	1311.9	1311.9
2.5°	1311.9	1311.4	1311.4	1311.9	1311.0
5°	1309.5	1310.0	1309.5	1309.5	1308.6
7.5°	1304.4	1303.9	1303.4	1303.9	1302.5
10°	1295.4	1295.4	1294.9	1295.4	1294.5
12.5°	1284.6	1284.6	1284.6	1285.1	1284.6
15°	1270.9	1270.5	1270.5	1271.4	1270.5
17.5°	1254.9	1254.5	1254.5	1254.0	1253.1
20°	1235.2	1235.2	1234.7	1234.2	1232.8
22.5°	1214.0	1213.5	1212.1	1212.1	1210.2
25°	1189.0	1187.6	1186.7	1186.2	1184.8
27.5°	1161.7	1159.9	1158.4	1157.5	1156.1
30°	1131.1	1129.3	1127.8	1126.4	1125.5
32.5°	1098.2	1097.2	1094.9	1094.4	1092.5
35°	1062.9	1061.5	1060.1	1058.2	1056.3
37.5°	1025.2	1023.8	1020.5	1019.6	1018.2
40°	985.2	983.3	979.1	979.1	977.7
42.5°	942.4	940.5	937.7	935.8	934.8
45°	897.7	895.8	892.5	890.6	889.7
47.5°	850.1	848.7	844.9	843.5	842.1
50°	800.7	798.8	794.6	793.6	792.2
52.5°	748.9	748.0	742.3	741.9	740.4
55°	697.6	692.4	687.7	687.7	686.8
57.5°	641.1	637.4	631.2	631.2	630.3
60°	582.7	579.5	572.4	573.3	572.4
62.5°	525.8	518.7	512.1	515.0	512.6
65°	460.8	457.1	450.0	451.9	451.4
67.5°	401.5	394.5	387.9	391.6	389.8
70°	335.6	331.9	325.3	329.0	324.3
72.5°	273.5	270.2	263.6	267.8	263.1
75°	213.2	209.9	204.8	208.5	203.8
77.5°	156.3	153.9	149.2	153.0	153.9
80°	104.5	101.7	99.3	102.6	103.6
82.5°	61.2	59.3	58.4	58.8	61.2
85°	29.7	27.3	27.3	27.8	27.8
87.5°	8.0	7.1	8.0	8.5	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)