

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: P974504

Luminaire Tested: FLR2-24-72-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974504
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: FLR2-24-72-L950-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L950-CA125
Ballast/Driver: -

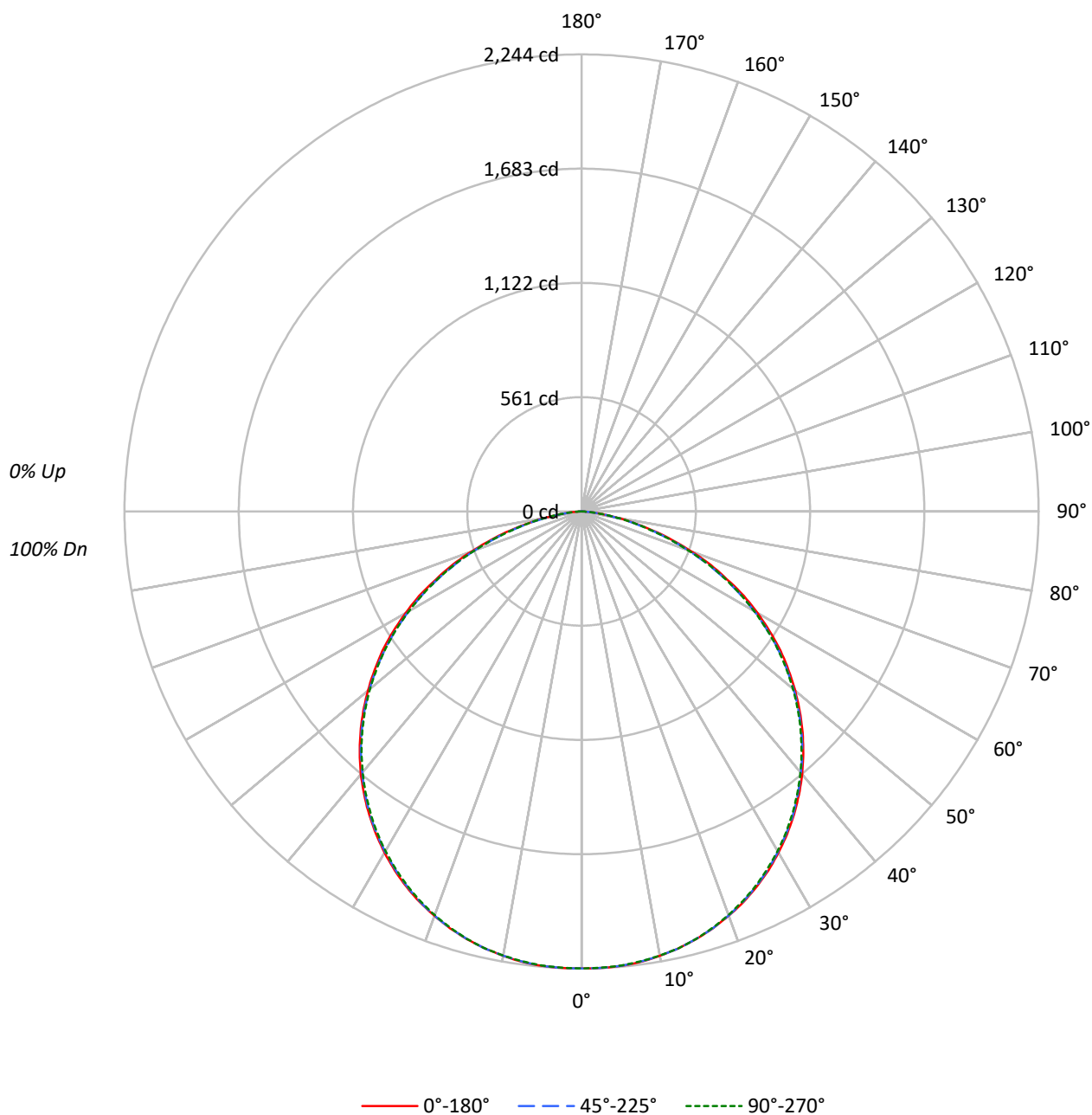
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6341.9 lumens
Efficiency: N/A
Efficacy: 104.1 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): 60.9
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	3019	3019	3019
5°	3025	3025	3023
10°	3027	3026	3025
15°	3028	3027	3027
20°	3025	3024	3019
25°	3019	3013	3009
30°	3006	2997	2991
35°	2986	2978	2968
40°	2960	2941	2937
45°	2922	2905	2896
50°	2867	2845	2836
55°	2799	2759	2756
60°	2682	2634	2634
65°	2509	2450	2458
70°	2258	2188	2182
75°	1896	1821	1812
80°	1385	1316	1372
85°	783	721	733

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2922 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.0	3.4
10°-20°	613.6	9.7
20°-30°	935.5	14.8
30°-40°	1133.5	17.9
40°-50°	1177.4	18.6
50°-60°	1053.2	16.6
60°-70°	767.6	12.1
70°-80°	380.2	6.0
80°-90°	67.9	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°	1762.1	27.8
0°-40°	2895.6	45.7
0°-60°	5126.2	80.8
0°-90°	6341.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6341.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2244	2244	2244	2244	2244	
5°	2240	2241	2240	2240	2238	213
15°	2174	2173	2173	2175	2173	614
25°	2034	2031	2030	2029	2026	937
35°	1818	1816	1813	1810	1807	1137
45°	1535	1532	1526	1523	1522	1183
55°	1193	1184	1176	1176	1175	1063
65°	788	782	770	773	772	781
75°	365	359	350	357	349	389
85°	51	47	47	48	48	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2243.9	2243.9	2243.9	2243.9	2243.9
2.5°	2243.9	2243.1	2243.1	2243.9	2242.3
5°	2239.9	2240.7	2239.9	2239.9	2238.2
7.5°	2231.0	2230.2	2229.4	2230.2	2227.8
10°	2215.7	2215.7	2214.9	2215.7	2214.1
12.5°	2197.2	2197.2	2197.2	2198.0	2197.2
15°	2173.8	2173.0	2173.0	2174.6	2173.0
17.5°	2146.5	2145.7	2145.7	2144.9	2143.2
20°	2112.6	2112.6	2111.8	2111.0	2108.6
22.5°	2076.4	2075.6	2073.2	2073.2	2070.0
25°	2033.7	2031.3	2029.7	2028.9	2026.5
27.5°	1987.0	1983.8	1981.4	1979.8	1977.4
30°	1934.7	1931.5	1929.1	1926.7	1925.1
32.5°	1878.4	1876.7	1872.7	1871.9	1868.7
35°	1818.0	1815.6	1813.1	1809.9	1806.7
37.5°	1753.6	1751.1	1745.5	1743.9	1741.5
40°	1685.1	1681.9	1674.7	1674.7	1672.2
42.5°	1611.9	1608.6	1603.8	1600.6	1599.0
45°	1535.4	1532.2	1526.5	1523.3	1521.7
47.5°	1454.1	1451.6	1445.2	1442.8	1440.4
50°	1369.5	1366.3	1359.1	1357.4	1355.0
52.5°	1281.0	1279.3	1269.7	1268.9	1266.5
55°	1193.2	1184.3	1176.3	1176.3	1174.7
57.5°	1096.6	1090.1	1079.7	1079.7	1078.1
60°	996.7	991.1	979.0	980.6	979.0
62.5°	899.3	887.2	876.0	880.8	876.8
65°	788.2	781.8	769.7	772.9	772.1
67.5°	686.8	674.7	663.4	669.9	666.6
70°	574.1	567.6	556.3	562.8	554.7
72.5°	467.8	462.1	450.9	458.1	450.1
75°	364.7	359.1	350.2	356.7	348.6
77.5°	267.3	263.3	255.2	261.7	263.3
80°	178.7	173.9	169.9	175.5	177.1
82.5°	104.7	101.4	99.8	100.6	104.7
85°	50.7	46.7	46.7	47.5	47.5
87.5°	13.7	12.1	13.7	14.5	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)