

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: P974448

Luminaire Tested: FLR2-24-72-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974448
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-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L850-CA125
Ballast/Driver: -

Summary

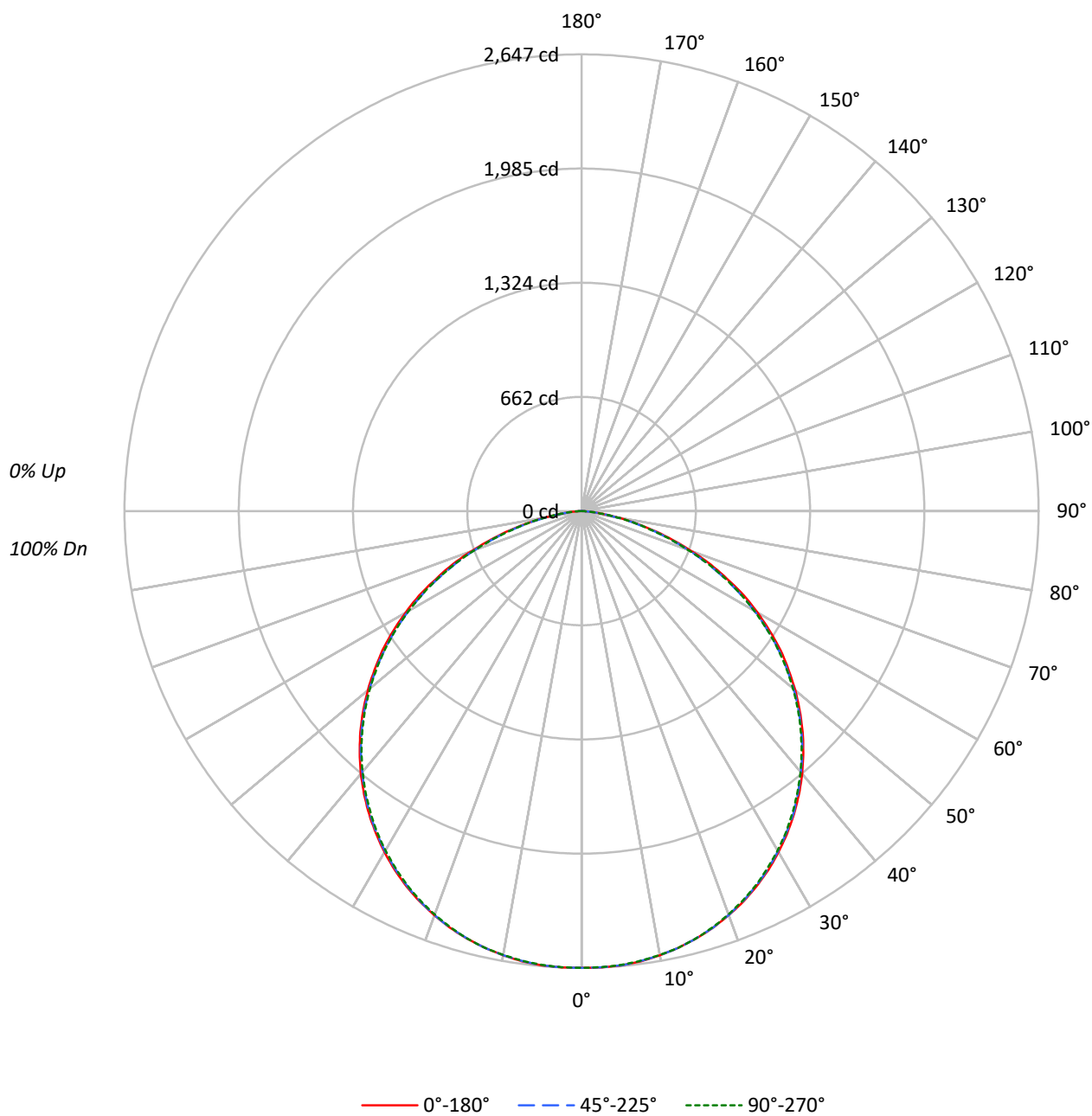
Lumens per Lamp: N/A
Luminaire Lumens: 7482.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3562	3562	3562
5°	3569	3569	3566
10°	3571	3570	3569
15°	3572	3571	3571
20°	3569	3567	3562
25°	3562	3555	3549
30°	3546	3536	3528
35°	3523	3514	3501
40°	3492	3470	3465
45°	3447	3427	3416
50°	3382	3356	3346
55°	3302	3255	3251
60°	3164	3108	3108
65°	2961	2891	2900
70°	2664	2582	2575
75°	2237	2148	2138
80°	1634	1553	1619
85°	923	851	865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3447 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.3	3.4
10°-20°	723.9	9.7
20°-30°	1103.7	14.8
30°-40°	1337.2	17.9
40°-50°	1389.0	18.6
50°-60°	1242.6	16.6
60°-70°	905.6	12.1
70°-80°	448.5	6.0
80°-90°	80.2	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°	2078.9	27.8
0°-40°	3416.1	45.7
0°-60°	6047.7	80.8
0°-90°	7482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2647	2647	2647	2647	2647	
5°	2642	2644	2642	2642	2641	251
15°	2565	2564	2564	2566	2564	724
25°	2399	2396	2395	2394	2391	1106
35°	2145	2142	2139	2135	2132	1342
45°	1811	1808	1801	1797	1795	1396
55°	1408	1397	1388	1388	1386	1254
65°	930	922	908	912	911	922
75°	430	424	413	421	411	459
85°	60	55	55	56	56	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2647.3	2647.3	2647.3	2647.3	2647.3
2.5°	2647.3	2646.3	2646.3	2647.3	2645.4
5°	2642.5	2643.5	2642.5	2642.5	2640.6
7.5°	2632.1	2631.1	2630.2	2631.1	2628.3
10°	2614.0	2614.0	2613.1	2614.0	2612.1
12.5°	2592.2	2592.2	2592.2	2593.1	2592.2
15°	2564.6	2563.7	2563.7	2565.6	2563.7
17.5°	2532.3	2531.4	2531.4	2530.4	2528.5
20°	2492.4	2492.4	2491.5	2490.5	2487.7
22.5°	2449.7	2448.8	2445.9	2445.9	2442.1
25°	2399.4	2396.5	2394.6	2393.7	2390.8
27.5°	2344.3	2340.5	2337.6	2335.7	2332.9
30°	2282.5	2278.7	2275.9	2273.0	2271.1
32.5°	2216.0	2214.1	2209.4	2208.4	2204.6
35°	2144.8	2141.9	2139.1	2135.3	2131.5
37.5°	2068.8	2066.0	2059.3	2057.4	2054.6
40°	1988.1	1984.3	1975.7	1975.7	1972.9
42.5°	1901.6	1897.8	1892.1	1888.3	1886.4
45°	1811.4	1807.6	1800.9	1797.1	1795.2
47.5°	1715.5	1712.6	1705.0	1702.2	1699.3
50°	1615.7	1611.9	1603.4	1601.5	1598.6
52.5°	1511.2	1509.3	1497.9	1497.0	1494.1
55°	1407.7	1397.3	1387.8	1387.8	1385.9
57.5°	1293.7	1286.1	1273.8	1273.8	1271.9
60°	1175.9	1169.3	1155.0	1156.9	1155.0
62.5°	1061.0	1046.8	1033.5	1039.2	1034.4
65°	929.9	922.3	908.1	911.9	910.9
67.5°	810.2	796.0	782.7	790.3	786.5
70°	677.3	669.7	656.4	664.0	654.5
72.5°	551.9	545.2	531.9	540.5	531.0
75°	430.3	423.6	413.2	420.8	411.3
77.5°	315.4	310.6	301.1	308.7	310.6
80°	210.9	205.2	200.4	207.1	209.0
82.5°	123.5	119.7	117.8	118.7	123.5
85°	59.8	55.1	55.1	56.0	56.0
87.5°	16.1	14.2	16.1	17.1	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)