

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: P974440

Luminaire Tested: FLR2-24-72-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974440
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L850-CA080
Ballast/Driver: -

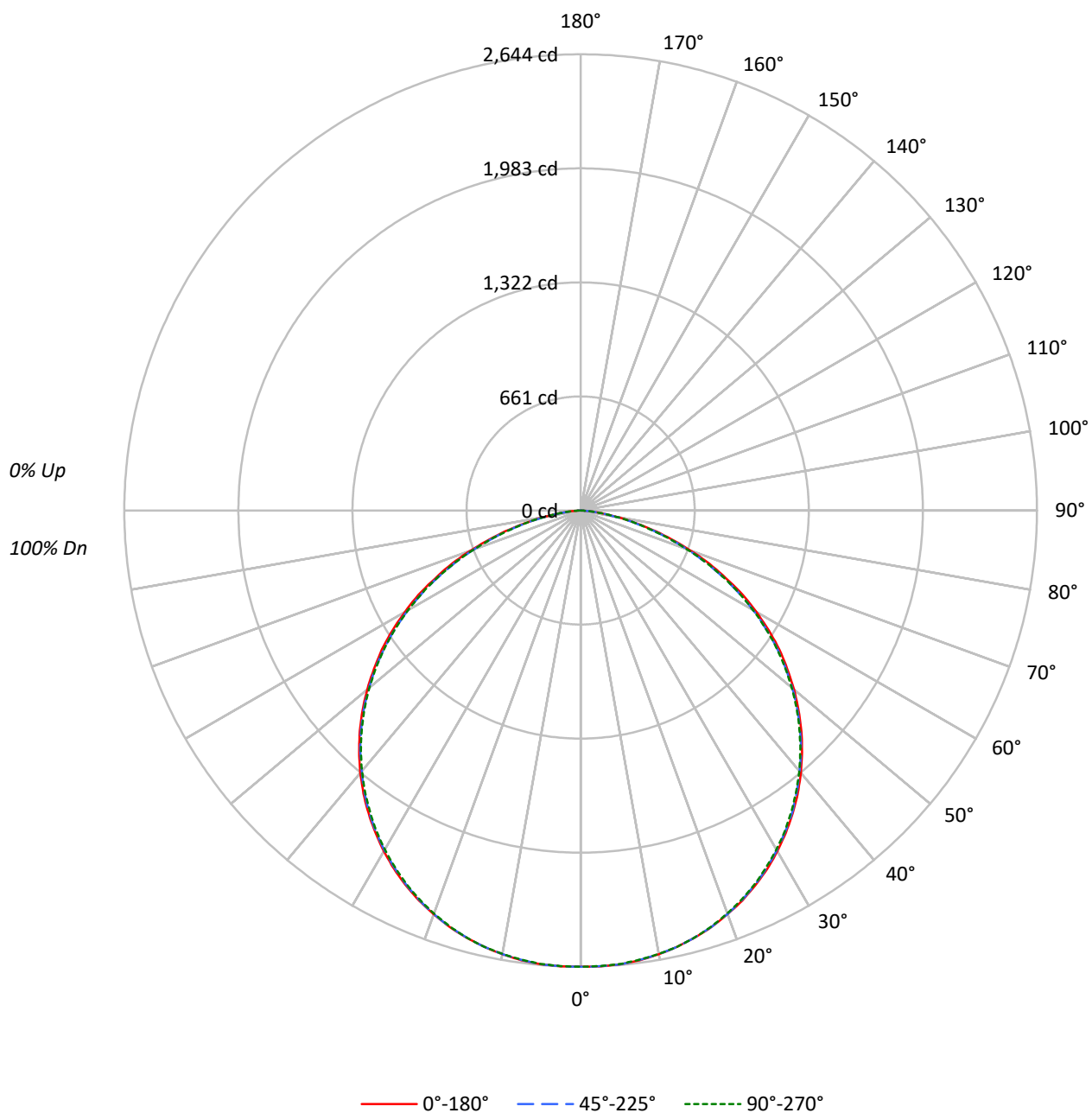
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7473.9 lumens
Efficiency: N/A
Efficacy: 122.7 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°	3558	3558	3558
5°	3565	3565	3563
10°	3568	3566	3565
15°	3569	3567	3567
20°	3565	3564	3558
25°	3558	3551	3545
30°	3542	3532	3525
35°	3519	3510	3497
40°	3488	3466	3461
45°	3443	3423	3412
50°	3378	3352	3343
55°	3299	3252	3248
60°	3161	3105	3105
65°	2957	2888	2897
70°	2661	2579	2572
75°	2234	2145	2136
80°	1632	1551	1617
85°	923	849	865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3443 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	3.4
10°-20°	723.1	9.7
20°-30°	1102.5	14.8
30°-40°	1335.8	17.9
40°-50°	1387.5	18.6
50°-60°	1241.2	16.6
60°-70°	904.6	12.1
70°-80°	448.0	6.0
80°-90°	80.1	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°	2076.6	27.8
0°-40°	3412.4	45.7
0°-60°	6041.2	80.8
0°-90°	7473.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7473.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2644	2644	2644	2644	2644	
5°	2640	2641	2640	2640	2638	251
15°	2562	2561	2561	2563	2561	723
25°	2397	2394	2392	2391	2388	1105
35°	2142	2140	2137	2133	2129	1340
45°	1809	1806	1799	1795	1793	1394
55°	1406	1396	1386	1386	1384	1253
65°	929	921	907	911	910	921
75°	430	423	413	420	411	458
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°	2644.4	2644.4	2644.4	2644.4	2644.4
2.5°	2644.4	2643.5	2643.5	2644.4	2642.5
5°	2639.7	2640.6	2639.7	2639.7	2637.8
7.5°	2629.2	2628.3	2627.3	2628.3	2625.4
10°	2611.2	2611.2	2610.3	2611.2	2609.3
12.5°	2589.4	2589.4	2589.4	2590.3	2589.4
15°	2561.9	2560.9	2560.9	2562.8	2560.9
17.5°	2529.6	2528.7	2528.7	2527.7	2525.8
20°	2489.8	2489.8	2488.8	2487.9	2485.0
22.5°	2447.1	2446.1	2443.3	2443.3	2439.5
25°	2396.8	2393.9	2392.0	2391.1	2388.2
27.5°	2341.7	2337.9	2335.1	2333.2	2330.4
30°	2280.1	2276.3	2273.4	2270.6	2268.7
32.5°	2213.7	2211.8	2207.0	2206.1	2202.3
35°	2142.5	2139.6	2136.8	2133.0	2129.2
37.5°	2066.6	2063.7	2057.1	2055.2	2052.3
40°	1985.9	1982.1	1973.6	1973.6	1970.7
42.5°	1899.6	1895.8	1890.1	1886.3	1884.4
45°	1809.4	1805.6	1799.0	1795.2	1793.3
47.5°	1713.6	1710.8	1703.2	1700.3	1697.5
50°	1614.0	1610.2	1601.6	1599.7	1596.9
52.5°	1509.6	1507.7	1496.3	1495.4	1492.5
55°	1406.2	1395.7	1386.3	1386.3	1384.4
57.5°	1292.3	1284.7	1272.4	1272.4	1270.5
60°	1174.7	1168.0	1153.8	1155.7	1153.8
62.5°	1059.9	1045.6	1032.3	1038.0	1033.3
65°	928.9	921.3	907.1	910.9	909.9
67.5°	809.4	795.1	781.8	789.4	785.6
70°	676.5	668.9	655.7	663.2	653.8
72.5°	551.3	544.6	531.4	539.9	530.4
75°	429.8	423.2	412.7	420.3	410.8
77.5°	315.0	310.3	300.8	308.4	310.3
80°	210.6	205.0	200.2	206.8	208.7
82.5°	123.3	119.6	117.7	118.6	123.3
85°	59.8	55.0	55.0	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)