

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: P973689

Luminaire Tested: FLR2-22-20-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-20-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

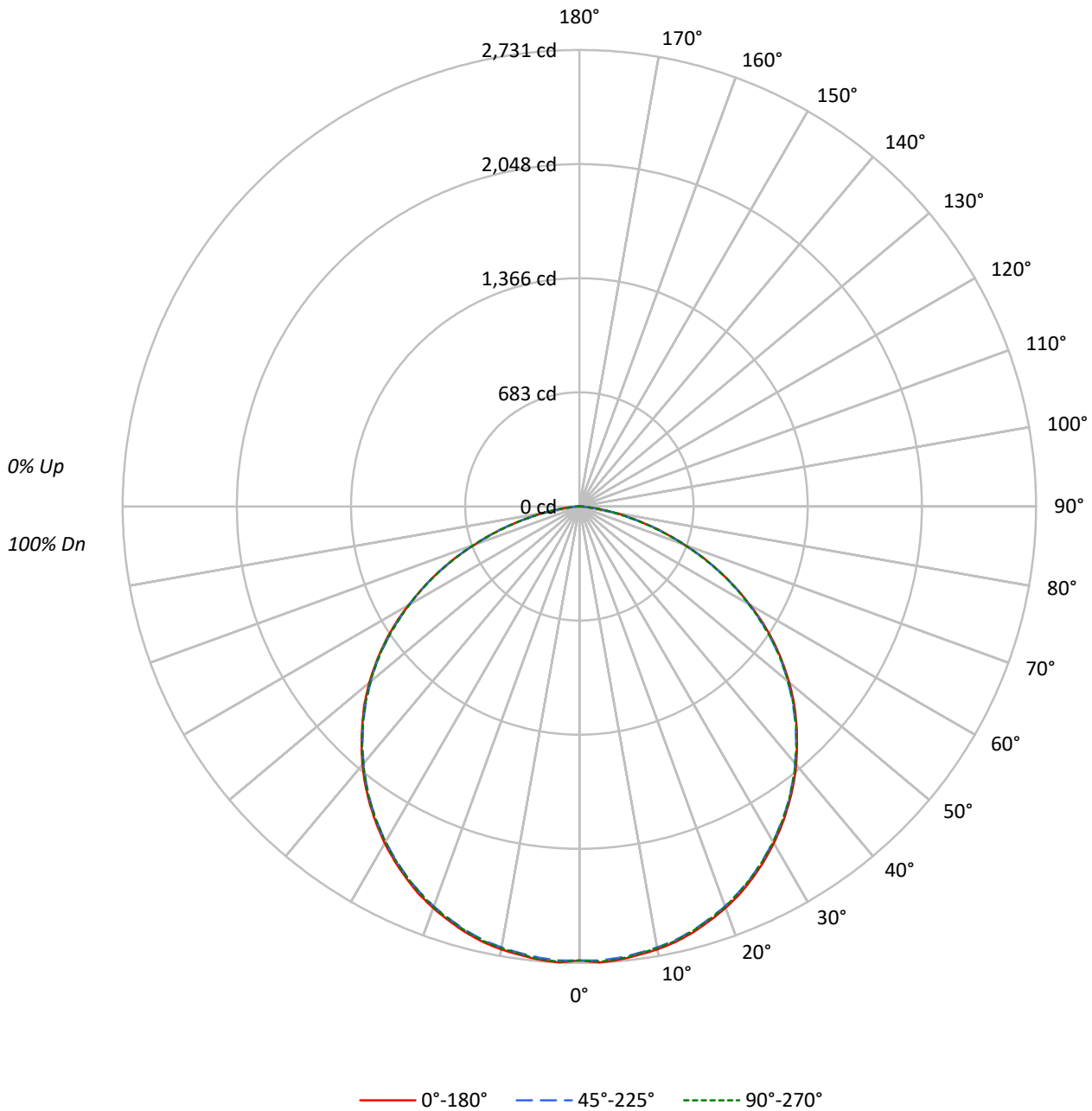
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7594.7 lumens
Efficiency: N/A
Efficacy: 503.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 15.1
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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7308	7308	7308
5°	7354	7322	7345
10°	7352	7320	7334
15°	7346	7314	7323
20°	7321	7292	7302
25°	7282	7252	7257
30°	7229	7198	7203
35°	7164	7136	7141
40°	7089	7053	7059
45°	6984	6952	6965
50°	6861	6812	6826
55°	6666	6610	6634
60°	6338	6310	6310
65°	5917	5906	5885
70°	5239	5266	5253
75°	4413	4377	4343
80°	3171	3119	3093
85°	1658	1658	1606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6984 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	3.4
10°-20°	739.5	9.7
20°-30°	1123.8	14.8
30°-40°	1358.4	17.9
40°-50°	1409.9	18.6
50°-60°	1260.5	16.6
60°-70°	916.5	12.1
70°-80°	450.7	5.9
80°-90°	78.2	1.0
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°	2120.5	27.9
0°-40°	3478.9	45.8
0°-60°	6149.4	81.0
0°-90°	7594.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7594.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2716	2716	2716	2716	2716	
5°	2722	2691	2711	2701	2719	259
15°	2637	2607	2625	2618	2628	744
25°	2452	2426	2442	2437	2444	1130
35°	2181	2166	2172	2174	2174	1364
45°	1835	1827	1827	1830	1830	1416
55°	1421	1412	1409	1412	1414	1266
65°	929	933	928	928	924	916
75°	424	428	421	423	418	450
85°	54	55	54	54	52	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2715.8	2715.8	2715.8	2715.8	2715.8
2.5°	2730.9	2699.0	2719.1	2707.4	2725.8
5°	2722.5	2690.6	2710.7	2700.7	2719.1
7.5°	2707.4	2675.5	2695.6	2685.6	2700.7
10°	2690.6	2657.0	2678.9	2668.8	2683.9
12.5°	2668.8	2636.9	2657.0	2648.7	2662.1
15°	2636.9	2606.7	2625.2	2618.5	2628.5
17.5°	2598.3	2568.1	2586.6	2581.6	2589.9
20°	2556.4	2527.9	2546.3	2541.3	2549.7
22.5°	2509.4	2479.2	2496.0	2492.7	2499.4
25°	2452.4	2425.6	2442.3	2437.3	2444.0
27.5°	2392.0	2366.9	2380.3	2380.3	2383.6
30°	2326.6	2303.1	2316.5	2316.5	2318.2
32.5°	2256.1	2237.7	2246.1	2247.8	2247.8
35°	2180.7	2165.6	2172.3	2173.9	2173.9
37.5°	2101.8	2086.7	2091.8	2095.1	2095.1
40°	2017.9	2004.5	2007.9	2011.2	2009.6
42.5°	1927.4	1917.3	1919.0	1922.3	1922.3
45°	1835.1	1826.7	1826.7	1830.1	1830.1
47.5°	1741.2	1732.8	1729.4	1732.8	1732.8
50°	1638.8	1630.5	1627.1	1630.5	1630.5
52.5°	1531.5	1523.1	1523.1	1523.1	1524.8
55°	1420.8	1412.4	1409.0	1412.4	1414.1
57.5°	1303.4	1300.0	1295.0	1296.7	1291.6
60°	1177.6	1177.6	1172.5	1175.9	1172.5
62.5°	1055.1	1058.5	1053.4	1053.4	1050.1
65°	929.3	932.7	927.6	927.6	924.3
67.5°	800.1	805.2	798.5	798.5	795.1
70°	665.9	676.0	669.3	671.0	667.6
72.5°	545.2	550.2	543.5	543.5	540.1
75°	424.4	427.7	421.0	422.7	417.7
77.5°	305.3	310.3	303.6	305.3	303.6
80°	204.6	206.3	201.3	203.0	199.6
82.5°	119.1	120.8	119.1	117.4	115.7
85°	53.7	55.4	53.7	53.7	52.0
87.5°	13.4	13.4	13.4	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)