

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: P973691

Luminaire Tested: FLR2-22-35-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973691
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: FLR2-22-35-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

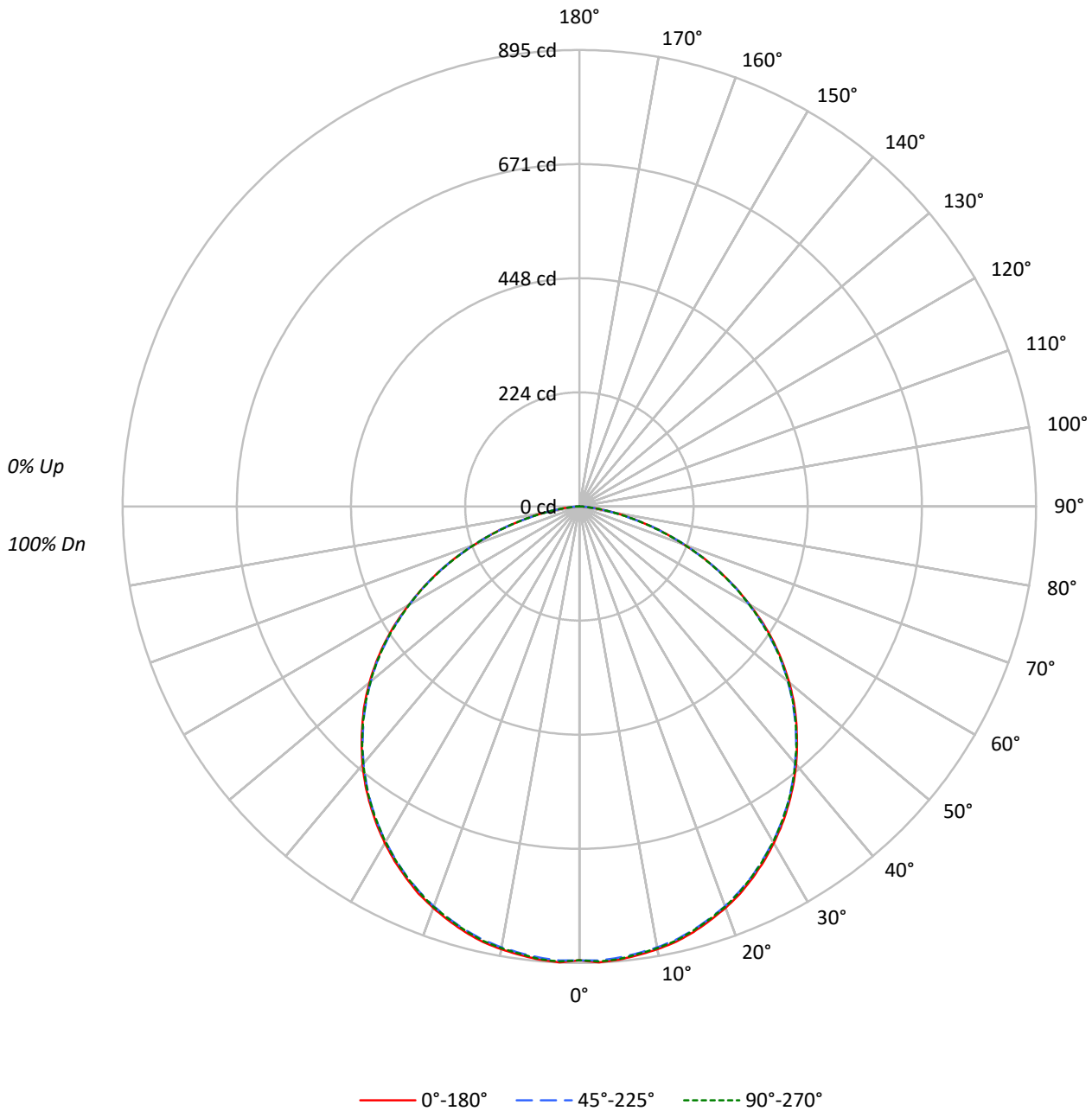
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2488.5 lumens
Efficiency: N/A
Efficacy: 89.2 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): 27.9
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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			100																
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85			85																
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44			44																
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39			39																
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34			34																
8	61	47	39	33	59	47	39	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	40	34	29	27			27																
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25			25																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2394	2394	2394
5°	2410	2399	2407
10°	2409	2399	2403
15°	2407	2396	2400
20°	2399	2389	2392
25°	2386	2376	2378
30°	2369	2358	2360
35°	2347	2338	2340
40°	2323	2311	2313
45°	2288	2278	2282
50°	2248	2232	2236
55°	2184	2166	2174
60°	2076	2068	2068
65°	1939	1935	1928
70°	1717	1725	1721
75°	1446	1435	1423
80°	1040	1023	1013
85°	543	543	525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2288 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.4
10°-20°	242.3	9.7
20°-30°	368.2	14.8
30°-40°	445.1	17.9
40°-50°	462.0	18.6
50°-60°	413.0	16.6
60°-70°	300.3	12.1
70°-80°	147.7	5.9
80°-90°	25.6	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°	694.8	27.9
0°-40°	1139.9	45.8
0°-60°	2014.9	81.0
0°-90°	2488.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2488.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	892	882	888	885	891	85
15°	864	854	860	858	861	244
25°	804	795	800	799	801	370
35°	714	710	712	712	712	447
45°	601	598	598	600	600	464
55°	466	463	462	463	463	415
65°	304	306	304	304	303	300
75°	139	140	138	138	137	148
85°	18	18	18	18	17	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	889.8	889.8	889.8	889.8	889.8
2.5°	894.8	884.4	890.9	887.1	893.1
5°	892.0	881.6	888.2	884.9	890.9
7.5°	887.1	876.7	883.3	880.0	884.9
10°	881.6	870.6	877.8	874.5	879.4
12.5°	874.5	864.0	870.6	867.9	872.3
15°	864.0	854.1	860.2	858.0	861.3
17.5°	851.4	841.5	847.5	845.9	848.6
20°	837.6	828.3	834.3	832.7	835.4
22.5°	822.2	812.4	817.8	816.7	818.9
25°	803.6	794.8	800.3	798.6	800.8
27.5°	783.8	775.5	779.9	779.9	781.0
30°	762.3	754.6	759.0	759.0	759.6
32.5°	739.3	733.2	736.0	736.5	736.5
35°	714.5	709.6	711.8	712.3	712.3
37.5°	688.7	683.7	685.4	686.5	686.5
40°	661.2	656.8	657.9	659.0	658.5
42.5°	631.5	628.2	628.8	629.9	629.9
45°	601.3	598.5	598.5	599.6	599.6
47.5°	570.5	567.8	566.7	567.8	567.8
50°	537.0	534.2	533.1	534.2	534.2
52.5°	501.8	499.1	499.1	499.1	499.6
55°	465.5	462.8	461.7	462.8	463.3
57.5°	427.1	426.0	424.3	424.9	423.2
60°	385.8	385.8	384.2	385.3	384.2
62.5°	345.7	346.8	345.2	345.2	344.1
65°	304.5	305.6	303.9	303.9	302.8
67.5°	262.2	263.8	261.6	261.6	260.5
70°	218.2	221.5	219.3	219.9	218.8
72.5°	178.6	180.3	178.1	178.1	177.0
75°	139.1	140.2	138.0	138.5	136.9
77.5°	100.0	101.7	99.5	100.0	99.5
80°	67.1	67.6	66.0	66.5	65.4
82.5°	39.0	39.6	39.0	38.5	37.9
85°	17.6	18.1	17.6	17.6	17.0
87.5°	4.4	4.4	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)