

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: P974441

Luminaire Tested: FLR2-24-20-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974441
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: FLR2-24-20-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L850-CA125
Ballast/Driver: -

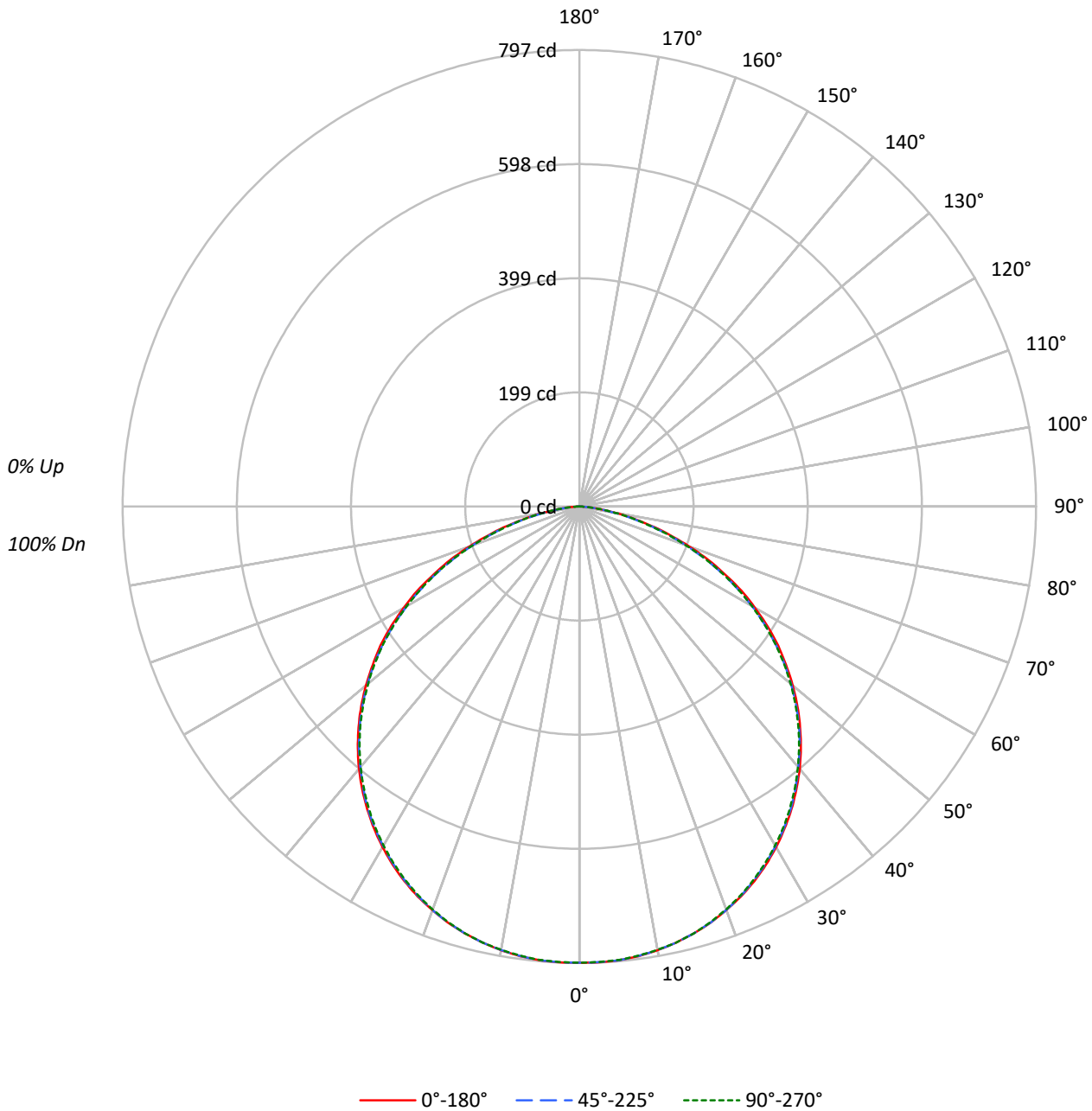
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2251.7 lumens
Efficiency: N/A
Efficacy: 134.8 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): 16.7
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1072	1072	1072
5°	1074	1074	1073
10°	1075	1074	1074
15°	1075	1075	1075
20°	1074	1074	1072
25°	1072	1070	1068
30°	1067	1064	1062
35°	1060	1057	1054
40°	1051	1044	1043
45°	1037	1031	1028
50°	1018	1010	1007
55°	994	980	978
60°	952	935	935
65°	891	870	873
70°	802	777	775
75°	673	647	644
80°	492	467	487
85°	278	256	261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1037 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.4
10°-20°	217.9	9.7
20°-30°	332.2	14.8
30°-40°	402.4	17.9
40°-50°	418.0	18.6
50°-60°	373.9	16.6
60°-70°	272.5	12.1
70°-80°	135.0	6.0
80°-90°	24.1	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°	625.6	27.8
0°-40°	1028.1	45.7
0°-60°	1820.1	80.8
0°-90°	2251.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2251.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	795	796	795	795	795	76
15°	772	772	772	772	772	218
25°	722	721	721	720	720	333
35°	646	645	644	643	642	404
45°	545	544	542	541	540	420
55°	424	420	418	418	417	377
65°	280	278	273	274	274	277
75°	130	128	124	127	124	138
85°	18	17	17	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.7	796.7	796.7	796.7	796.7
2.5°	796.7	796.4	796.4	796.7	796.1
5°	795.3	795.6	795.3	795.3	794.7
7.5°	792.1	791.8	791.6	791.8	791.0
10°	786.7	786.7	786.4	786.7	786.1
12.5°	780.1	780.1	780.1	780.4	780.1
15°	771.8	771.6	771.6	772.1	771.6
17.5°	762.1	761.8	761.8	761.5	761.0
20°	750.1	750.1	749.8	749.5	748.7
22.5°	737.2	737.0	736.1	736.1	735.0
25°	722.1	721.2	720.7	720.4	719.5
27.5°	705.5	704.4	703.5	702.9	702.1
30°	686.9	685.8	684.9	684.1	683.5
32.5°	666.9	666.4	664.9	664.6	663.5
35°	645.5	644.6	643.8	642.6	641.5
37.5°	622.6	621.8	619.8	619.2	618.3
40°	598.3	597.2	594.6	594.6	593.7
42.5°	572.3	571.2	569.4	568.3	567.7
45°	545.1	544.0	542.0	540.9	540.3
47.5°	516.3	515.4	513.1	512.3	511.4
50°	486.3	485.1	482.5	482.0	481.1
52.5°	454.8	454.2	450.8	450.5	449.7
55°	423.7	420.5	417.6	417.6	417.1
57.5°	389.3	387.1	383.3	383.3	382.8
60°	353.9	351.9	347.6	348.2	347.6
62.5°	319.3	315.0	311.0	312.7	311.3
65°	279.9	277.6	273.3	274.4	274.1
67.5°	243.8	239.6	235.6	237.8	236.7
70°	203.8	201.5	197.5	199.8	197.0
72.5°	166.1	164.1	160.1	162.7	159.8
75°	129.5	127.5	124.4	126.6	123.8
77.5°	94.9	93.5	90.6	92.9	93.5
80°	63.5	61.7	60.3	62.3	62.9
82.5°	37.2	36.0	35.4	35.7	37.2
85°	18.0	16.6	16.6	16.9	16.9
87.5°	4.9	4.3	4.9	5.1	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)