

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: P974402

Luminaire Tested: FLR2-24-30-L850-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974402  
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: FLR2-24-30-L850-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-30-L850-CP125  
Ballast/Driver: -

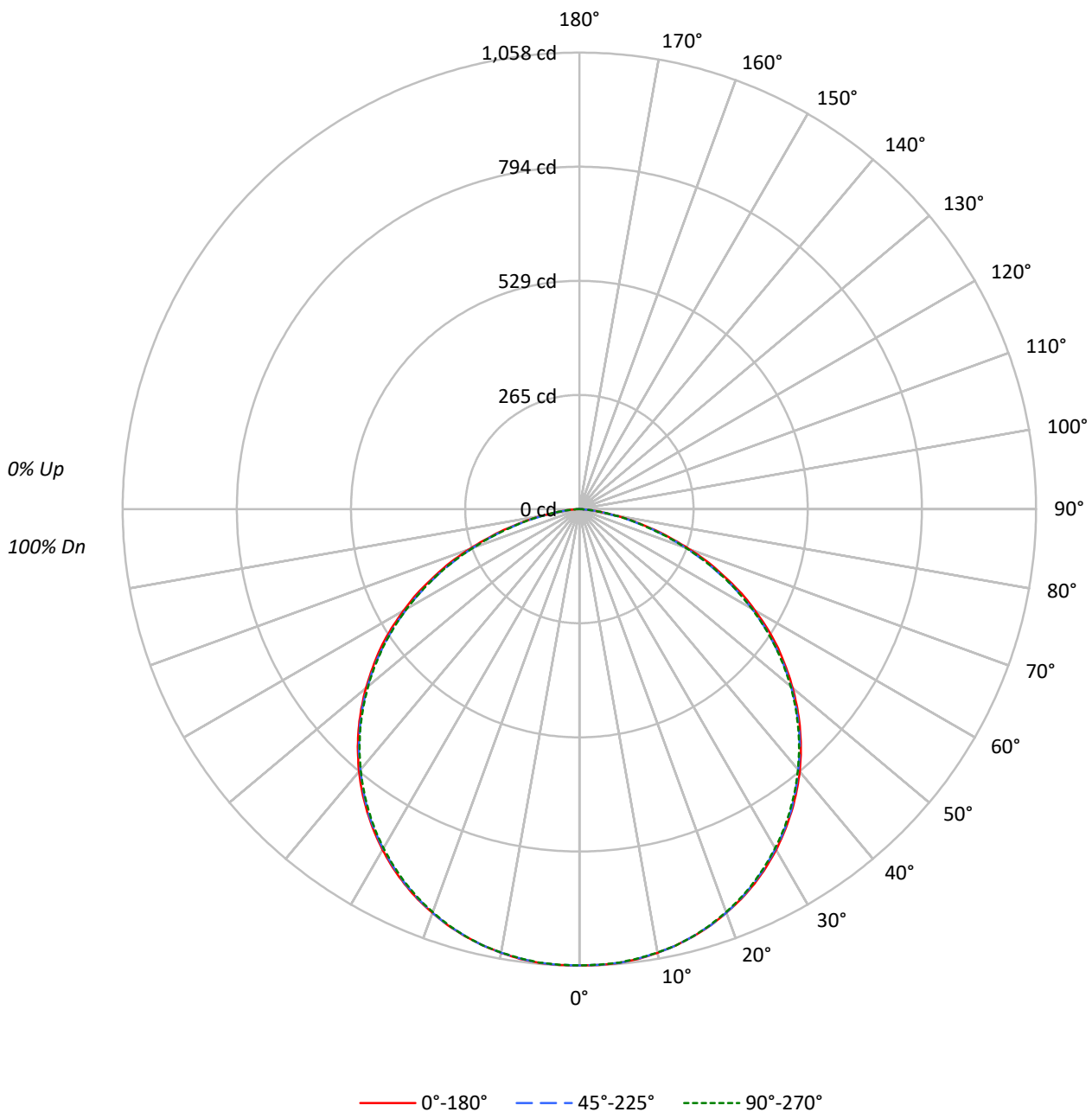
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2988.9 lumens  
Efficiency: N/A  
Efficacy: 126.1 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): 23.7  
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1423	1423	1423
5°	1426	1426	1425
10°	1427	1426	1426
15°	1427	1427	1427
20°	1426	1425	1423
25°	1423	1420	1418
30°	1417	1412	1410
35°	1407	1404	1399
40°	1395	1386	1384
45°	1377	1369	1365
50°	1351	1341	1337
55°	1319	1301	1299
60°	1264	1242	1242
65°	1183	1155	1159
70°	1064	1031	1028
75°	894	858	854
80°	652	621	647
85°	369	340	346

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1377 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.4	3.4
10°-20°	289.2	9.7
20°-30°	440.9	14.8
30°-40°	534.2	17.9
40°-50°	554.9	18.6
50°-60°	496.4	16.6
60°-70°	361.8	12.1
70°-80°	179.2	6.0
80°-90°	32.0	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°	830.5	27.8
0°-40°	1364.6	45.7
0°-60°	2415.9	80.8
0°-90°	2988.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1056	1056	1056	1056	1055	100
15°	1024	1024	1024	1025	1024	289
25°	958	957	957	956	955	442
35°	857	856	854	853	852	536
45°	724	722	719	718	717	558
55°	562	558	554	554	554	501
65°	372	368	363	364	364	368
75°	172	169	165	168	164	183
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1057.5	1057.5	1057.5	1057.5	1057.5
2.5°	1057.5	1057.1	1057.1	1057.5	1056.8
5°	1055.6	1056.0	1055.6	1055.6	1054.9
7.5°	1051.4	1051.1	1050.7	1051.1	1049.9
10°	1044.2	1044.2	1043.9	1044.2	1043.5
12.5°	1035.5	1035.5	1035.5	1035.9	1035.5
15°	1024.5	1024.1	1024.1	1024.9	1024.1
17.5°	1011.6	1011.2	1011.2	1010.8	1010.1
20°	995.7	995.7	995.3	994.9	993.8
22.5°	978.6	978.2	977.1	977.1	975.6
25°	958.5	957.3	956.6	956.2	955.1
27.5°	936.5	935.0	933.8	933.1	931.9
30°	911.8	910.3	909.1	908.0	907.3
32.5°	885.2	884.5	882.6	882.2	880.7
35°	856.8	855.6	854.5	853.0	851.5
37.5°	826.4	825.3	822.6	821.9	820.7
40°	794.2	792.7	789.2	789.2	788.1
42.5°	759.6	758.1	755.9	754.3	753.6
45°	723.6	722.1	719.4	717.9	717.2
47.5°	685.3	684.1	681.1	680.0	678.8
50°	645.4	643.9	640.5	639.7	638.6
52.5°	603.7	602.9	598.4	598.0	596.9
55°	562.3	558.2	554.4	554.4	553.6
57.5°	516.8	513.8	508.8	508.8	508.1
60°	469.8	467.1	461.4	462.2	461.4
62.5°	423.8	418.1	412.8	415.1	413.2
65°	371.5	368.4	362.7	364.3	363.9
67.5°	323.7	318.0	312.7	315.7	314.2
70°	270.5	267.5	262.2	265.2	261.4
72.5°	220.5	217.8	212.5	215.9	212.1
75°	171.9	169.2	165.1	168.1	164.3
77.5°	126.0	124.1	120.3	123.3	124.1
80°	84.2	82.0	80.1	82.7	83.5
82.5°	49.3	47.8	47.1	47.4	49.3
85°	23.9	22.0	22.0	22.4	22.4
87.5°	6.5	5.7	6.5	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)