

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: P974426

Luminaire Tested: FLR2-24-30-L850-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974426  
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-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-30-L850-CP375  
Ballast/Driver: -

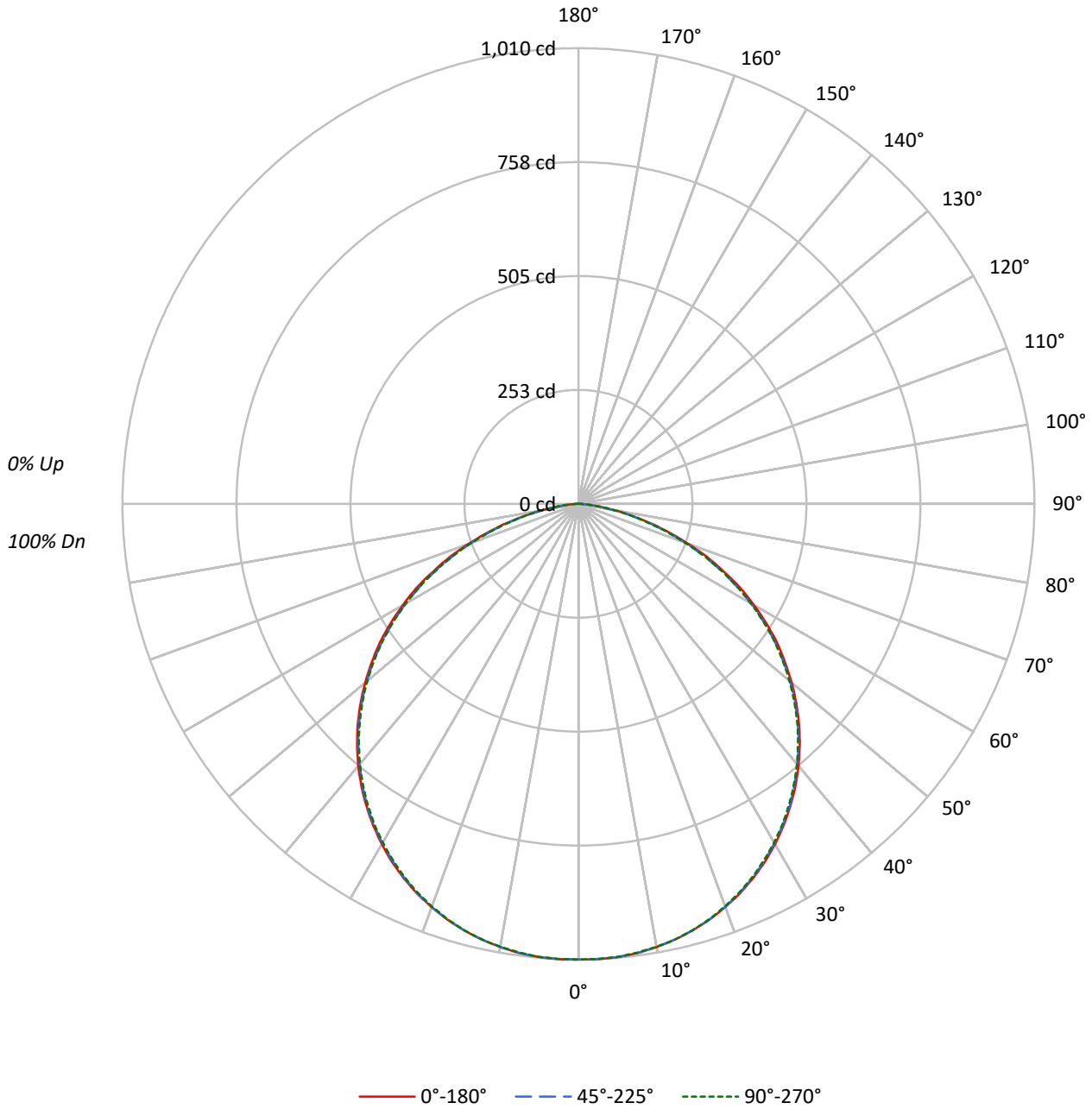
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2855.4 lumens  
Efficiency: N/A  
Efficacy: 120.5 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	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°	1359	1359	1359
5°	1362	1362	1361
10°	1363	1363	1362
15°	1363	1363	1363
20°	1362	1362	1359
25°	1359	1357	1355
30°	1353	1349	1347
35°	1344	1341	1336
40°	1333	1324	1322
45°	1315	1308	1304
50°	1291	1281	1277
55°	1260	1242	1241
60°	1208	1186	1186
65°	1130	1103	1107
70°	1017	985	983
75°	854	820	816
80°	624	593	618
85°	352	324	330

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1315 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.9	3.4
10°-20°	276.3	9.7
20°-30°	421.2	14.8
30°-40°	510.3	17.9
40°-50°	530.1	18.6
50°-60°	474.2	16.6
60°-70°	345.6	12.1
70°-80°	171.2	6.0
80°-90°	30.6	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°	793.4	27.8
0°-40°	1303.7	45.7
0°-60°	2308.0	80.8
0°-90°	2855.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2855.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1008	1009	1008	1008	1008	96
15°	979	978	978	979	978	276
25°	916	915	914	914	912	422
35°	818	818	816	815	814	512
45°	691	690	687	686	685	533
55°	537	533	530	530	529	479
65°	355	352	347	348	348	352
75°	164	162	158	161	157	175
85°	23	21	21	21	21	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1010.3	1010.3	1010.3	1010.3	1010.3
2.5°	1010.3	1009.9	1009.9	1010.3	1009.6
5°	1008.5	1008.9	1008.5	1008.5	1007.8
7.5°	1004.5	1004.1	1003.8	1004.1	1003.1
10°	997.6	997.6	997.3	997.6	996.9
12.5°	989.3	989.3	989.3	989.6	989.3
15°	978.8	978.4	978.4	979.1	978.4
17.5°	966.4	966.1	966.1	965.7	965.0
20°	951.2	951.2	950.9	950.5	949.4
22.5°	934.9	934.5	933.5	933.5	932.0
25°	915.7	914.6	913.9	913.5	912.4
27.5°	894.7	893.2	892.1	891.4	890.3
30°	871.1	869.7	868.6	867.5	866.8
32.5°	845.7	845.0	843.2	842.8	841.4
35°	818.5	817.5	816.4	814.9	813.5
37.5°	789.5	788.5	785.9	785.2	784.1
40°	758.7	757.3	754.0	754.0	752.9
42.5°	725.7	724.3	722.1	720.7	719.9
45°	691.3	689.9	687.3	685.9	685.1
47.5°	654.7	653.6	650.7	649.6	648.5
50°	616.6	615.2	611.9	611.2	610.1
52.5°	576.8	576.0	571.7	571.3	570.2
55°	537.2	533.2	529.6	529.6	528.9
57.5°	493.7	490.8	486.1	486.1	485.4
60°	448.8	446.2	440.8	441.5	440.8
62.5°	404.9	399.5	394.4	396.6	394.8
65°	354.9	352.0	346.6	348.0	347.6
67.5°	309.2	303.8	298.7	301.6	300.2
70°	258.5	255.6	250.5	253.4	249.8
72.5°	210.6	208.1	203.0	206.3	202.6
75°	164.2	161.7	157.7	160.6	157.0
77.5°	120.4	118.5	114.9	117.8	118.5
80°	80.5	78.3	76.5	79.0	79.8
82.5°	47.1	45.7	45.0	45.3	47.1
85°	22.8	21.0	21.0	21.4	21.4
87.5°	6.2	5.4	6.2	6.5	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)