

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: P973552

Luminaire Tested: FLR2-22-45-L930-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973552  
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: FLR2-22-45-L930-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

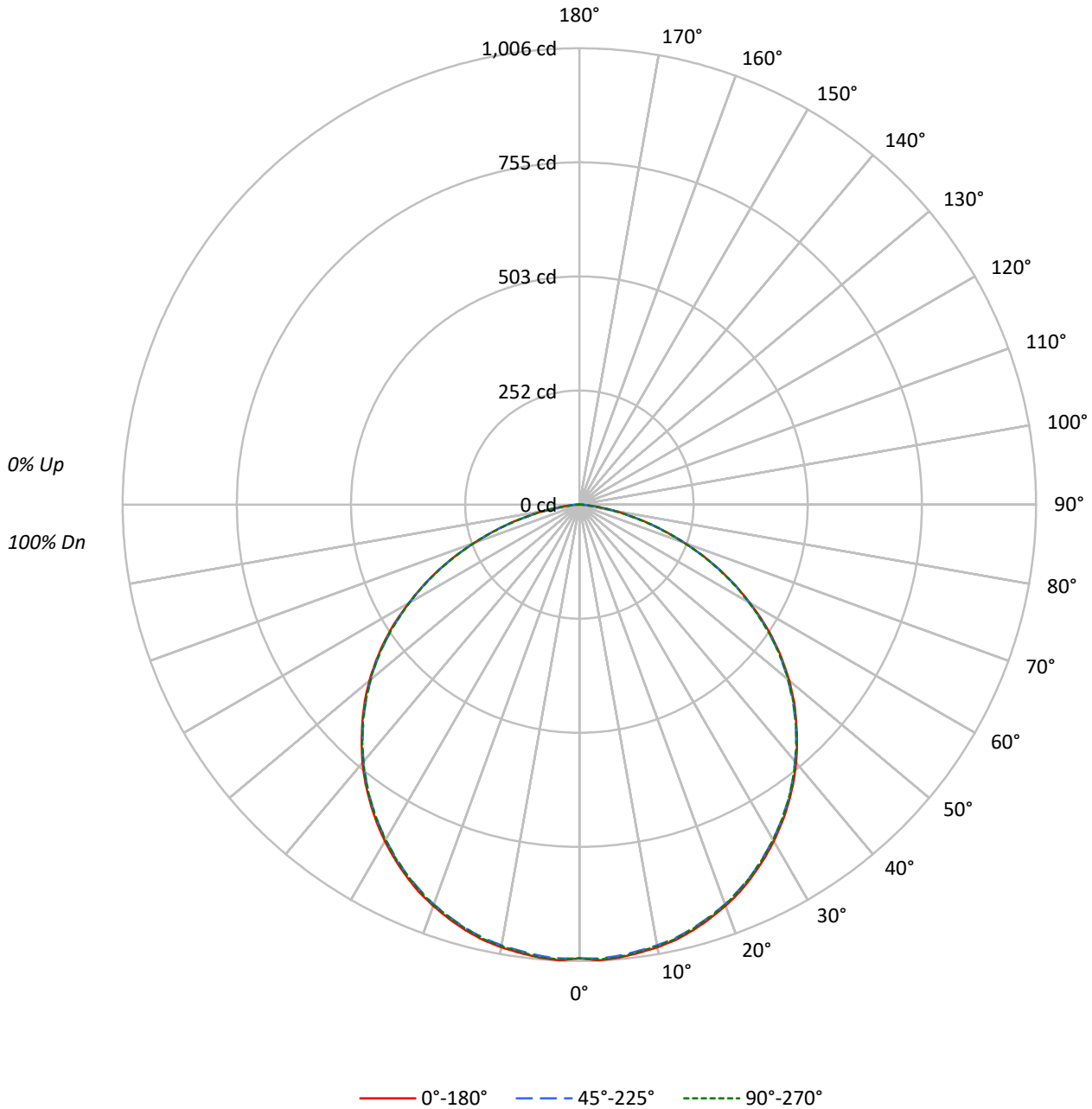
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2796.6 lumens  
Efficiency: N/A  
Efficacy: 77.5 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): 36.1  
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										
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	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°	2691	2691	2691
5°	2708	2696	2705
10°	2707	2695	2701
15°	2705	2693	2696
20°	2696	2685	2689
25°	2681	2670	2672
30°	2662	2651	2652
35°	2638	2628	2630
40°	2610	2597	2599
45°	2571	2560	2565
50°	2527	2508	2514
55°	2455	2434	2443
60°	2334	2324	2324
65°	2179	2175	2167
70°	1929	1939	1934
75°	1625	1612	1599
80°	1168	1148	1139
85°	611	611	590

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2571 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	3.4
10°-20°	272.3	9.7
20°-30°	413.8	14.8
30°-40°	500.2	17.9
40°-50°	519.2	18.6
50°-60°	464.2	16.6
60°-70°	337.5	12.1
70°-80°	166.0	5.9
80°-90°	28.8	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°	780.8	27.9
0°-40°	1281.0	45.8
0°-60°	2264.4	81.0
0°-90°	2796.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2796.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	1002	991	998	994	1001	95
15°	971	960	967	964	968	274
25°	903	893	899	898	900	416
35°	803	797	800	800	800	502
45°	676	673	673	674	674	521
55°	523	520	519	520	521	466
65°	342	343	342	342	340	337
75°	156	158	155	156	154	166
85°	20	20	20	20	19	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1000.0	1000.0	1000.0	1000.0	1000.0
2.5°	1005.6	993.8	1001.3	996.9	1003.7
5°	1002.5	990.8	998.2	994.5	1001.3
7.5°	996.9	985.2	992.6	988.9	994.5
10°	990.8	978.4	986.4	982.7	988.3
12.5°	982.7	971.0	978.4	975.3	980.3
15°	971.0	959.9	966.7	964.2	967.9
17.5°	956.8	945.7	952.5	950.6	953.7
20°	941.3	930.8	937.6	935.8	938.9
22.5°	924.0	912.9	919.1	917.9	920.3
25°	903.0	893.2	899.3	897.5	900.0
27.5°	880.8	871.5	876.5	876.5	877.7
30°	856.7	848.1	853.0	853.0	853.6
32.5°	830.8	824.0	827.1	827.7	827.7
35°	803.0	797.4	799.9	800.5	800.5
37.5°	774.0	768.4	770.2	771.5	771.5
40°	743.1	738.1	739.4	740.6	740.0
42.5°	709.7	706.0	706.6	707.9	707.9
45°	675.7	672.7	672.7	673.9	673.9
47.5°	641.1	638.1	636.8	638.1	638.1
50°	603.5	600.4	599.1	600.4	600.4
52.5°	563.9	560.9	560.9	560.9	561.5
55°	523.2	520.1	518.8	520.1	520.7
57.5°	479.9	478.7	476.8	477.5	475.6
60°	433.6	433.6	431.8	433.0	431.8
62.5°	388.5	389.8	387.9	387.9	386.7
65°	342.2	343.4	341.6	341.6	340.3
67.5°	294.6	296.5	294.0	294.0	292.8
70°	245.2	248.9	246.5	247.1	245.8
72.5°	200.7	202.6	200.1	200.1	198.9
75°	156.3	157.5	155.0	155.7	153.8
77.5°	112.4	114.3	111.8	112.4	111.8
80°	75.4	76.0	74.1	74.7	73.5
82.5°	43.9	44.5	43.9	43.2	42.6
85°	19.8	20.4	19.8	19.8	19.1
87.5°	4.9	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)