

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: P973540

Luminaire Tested: FLR2-22-45-L930-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973540  
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-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

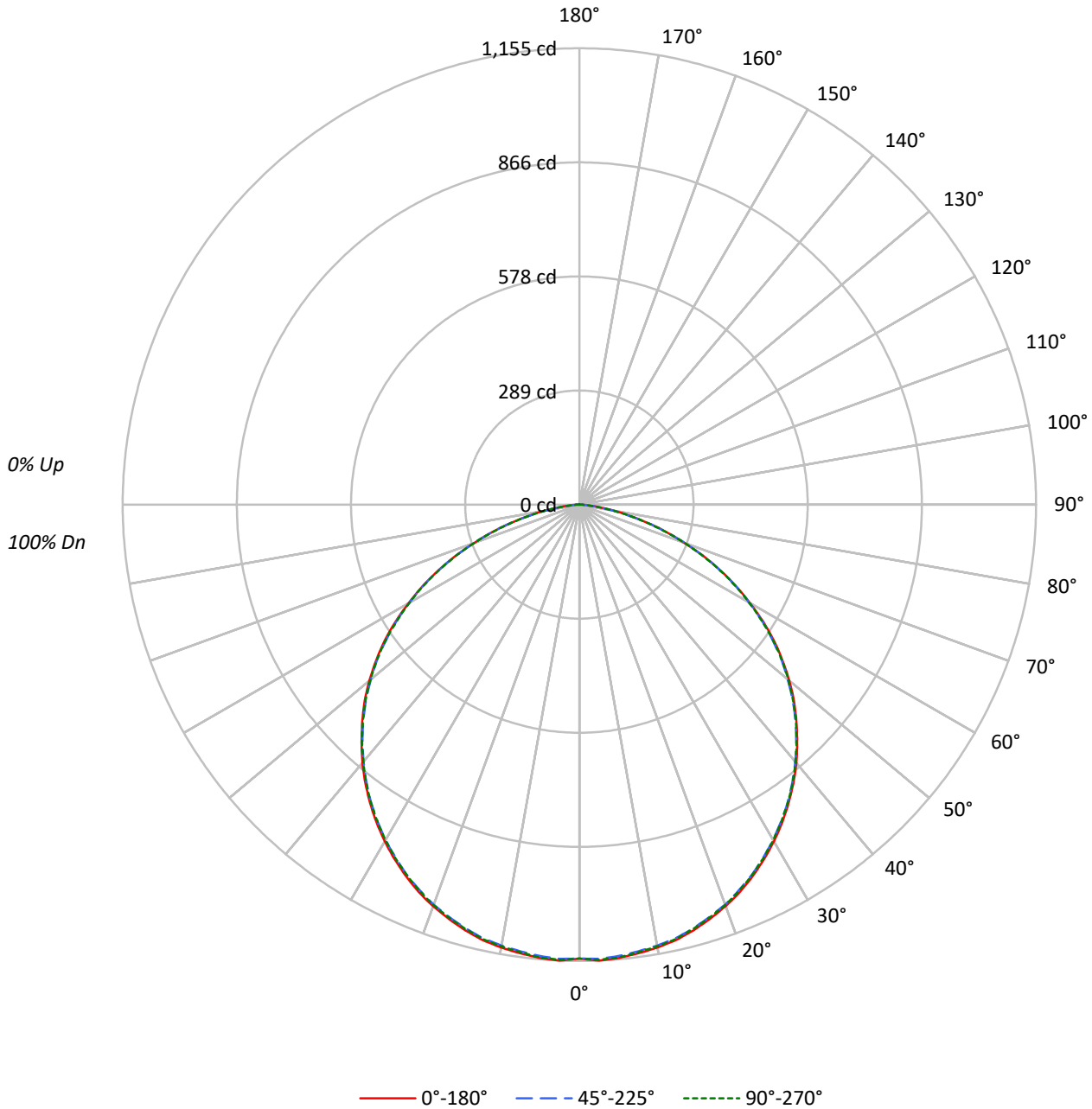
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3212.9 lumens  
Efficiency: N/A  
Efficacy: 89.0 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				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	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°	3092	3092	3092
5°	3111	3098	3107
10°	3110	3097	3102
15°	3108	3094	3098
20°	3097	3085	3089
25°	3081	3068	3070
30°	3058	3045	3047
35°	3030	3019	3021
40°	2999	2984	2986
45°	2954	2941	2946
50°	2902	2882	2888
55°	2820	2797	2807
60°	2681	2669	2669
65°	2503	2499	2490
70°	2216	2227	2222
75°	1866	1852	1837
80°	1342	1320	1308
85°	701	701	679

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2954 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.8	3.4
10°-20°	312.9	9.7
20°-30°	475.4	14.8
30°-40°	574.7	17.9
40°-50°	596.5	18.6
50°-60°	533.3	16.6
60°-70°	387.7	12.1
70°-80°	190.7	5.9
80°-90°	33.1	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°	897.1	27.9
0°-40°	1471.7	45.8
0°-60°	2601.4	81.0
0°-90°	3212.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3212.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1152	1138	1147	1142	1150	109
15°	1116	1103	1111	1108	1112	315
25°	1038	1026	1033	1031	1034	478
35°	922	916	919	920	920	577
45°	776	773	773	774	774	599
55°	601	598	596	598	598	536
65°	393	395	392	392	391	388
75°	180	181	178	179	177	191
85°	23	23	23	23	22	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1148.9	1148.9	1148.9	1148.9	1148.9
2.5°	1155.3	1141.8	1150.3	1145.3	1153.1
5°	1151.7	1138.2	1146.8	1142.5	1150.3
7.5°	1145.3	1131.9	1140.4	1136.1	1142.5
10°	1138.2	1124.1	1133.3	1129.0	1135.4
12.5°	1129.0	1115.5	1124.1	1120.5	1126.2
15°	1115.5	1102.8	1110.6	1107.7	1112.0
17.5°	1099.2	1086.4	1094.3	1092.1	1095.7
20°	1081.5	1069.4	1077.2	1075.1	1078.6
22.5°	1061.6	1048.8	1055.9	1054.5	1057.3
25°	1037.5	1026.1	1033.2	1031.1	1033.9
27.5°	1011.9	1001.3	1007.0	1007.0	1008.4
30°	984.3	974.3	980.0	980.0	980.7
32.5°	954.5	946.6	950.2	950.9	950.9
35°	922.5	916.1	919.0	919.7	919.7
37.5°	889.2	882.8	884.9	886.3	886.3
40°	853.7	848.0	849.4	850.8	850.1
42.5°	815.4	811.1	811.8	813.2	813.2
45°	776.3	772.8	772.8	774.2	774.2
47.5°	736.6	733.0	731.6	733.0	733.0
50°	693.3	689.8	688.3	689.8	689.8
52.5°	647.9	644.3	644.3	644.3	645.1
55°	601.1	597.5	596.1	597.5	598.2
57.5°	551.4	550.0	547.8	548.5	546.4
60°	498.2	498.2	496.0	497.5	496.0
62.5°	446.4	447.8	445.6	445.6	444.2
65°	393.1	394.6	392.4	392.4	391.0
67.5°	338.5	340.6	337.8	337.8	336.4
70°	281.7	286.0	283.1	283.9	282.4
72.5°	230.6	232.8	229.9	229.9	228.5
75°	179.5	181.0	178.1	178.8	176.7
77.5°	129.2	131.3	128.4	129.2	128.4
80°	86.6	87.3	85.2	85.9	84.4
82.5°	50.4	51.1	50.4	49.7	49.0
85°	22.7	23.4	22.7	22.7	22.0
87.5°	5.7	5.7	5.7	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)