

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: P974274

Luminaire Tested: FLR2-24-30-L935-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974274  
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-L935-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-30-L935-CA125  
Ballast/Driver: -

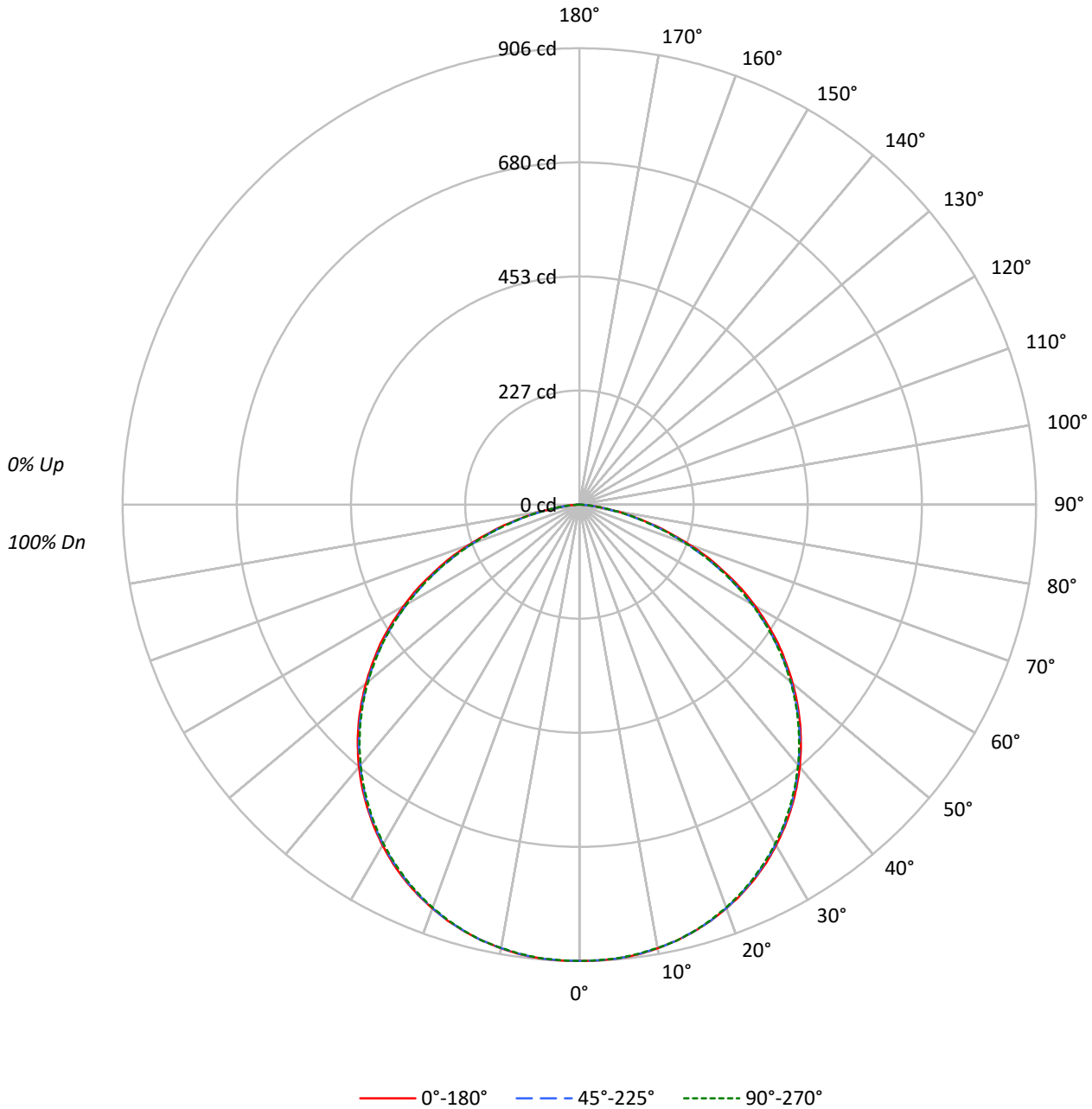
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2560.2 lumens  
Efficiency: N/A  
Efficacy: 108.0 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										
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						100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71						71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38						38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30						30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27						27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25						25														

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1219	1219	1219
5°	1221	1221	1220
10°	1222	1222	1221
15°	1222	1222	1222
20°	1221	1221	1219
25°	1219	1216	1215
30°	1213	1210	1207
35°	1205	1202	1198
40°	1195	1187	1186
45°	1179	1173	1169
50°	1157	1148	1145
55°	1130	1114	1112
60°	1083	1063	1063
65°	1013	989	992
70°	911	884	881
75°	765	735	731
80°	559	532	554
85°	316	292	296

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1179 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	3.4
10°-20°	247.7	9.7
20°-30°	377.7	14.8
30°-40°	457.6	17.9
40°-50°	475.3	18.6
50°-60°	425.2	16.6
60°-70°	309.9	12.1
70°-80°	153.5	6.0
80°-90°	27.5	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°	711.3	27.8
0°-40°	1168.9	45.7
0°-60°	2069.4	80.8
0°-90°	2560.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	906	906	906	906	906	
5°	904	904	904	904	904	86
15°	878	877	877	878	877	248
25°	821	820	819	819	818	378
35°	734	733	732	731	729	459
45°	620	618	616	615	614	478
55°	482	478	475	475	474	429
65°	318	316	311	312	312	315
75°	147	145	141	144	141	157
85°	20	19	19	19	19	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	905.8	905.8	905.8	905.8	905.8
2.5°	905.8	905.5	905.5	905.8	905.2
5°	904.2	904.5	904.2	904.2	903.6
7.5°	900.6	900.3	900.0	900.3	899.3
10°	894.5	894.5	894.1	894.5	893.8
12.5°	887.0	887.0	887.0	887.3	887.0
15°	877.6	877.2	877.2	877.9	877.2
17.5°	866.5	866.2	866.2	865.9	865.2
20°	852.9	852.9	852.5	852.2	851.2
22.5°	838.2	837.9	836.9	836.9	835.6
25°	821.0	820.0	819.4	819.1	818.1
27.5°	802.2	800.9	799.9	799.2	798.3
30°	781.0	779.7	778.8	777.8	777.1
32.5°	758.3	757.6	756.0	755.7	754.4
35°	733.9	732.9	731.9	730.6	729.3
37.5°	707.9	706.9	704.6	704.0	703.0
40°	680.3	679.0	676.0	676.0	675.1
42.5°	650.7	649.4	647.4	646.1	645.5
45°	619.8	618.5	616.2	614.9	614.3
47.5°	587.0	586.0	583.4	582.4	581.5
50°	552.9	551.6	548.6	548.0	547.0
52.5°	517.1	516.5	512.6	512.2	511.3
55°	481.7	478.1	474.9	474.9	474.2
57.5°	442.7	440.1	435.9	435.9	435.2
60°	402.4	400.1	395.2	395.9	395.2
62.5°	363.0	358.2	353.6	355.6	353.9
65°	318.2	315.6	310.7	312.0	311.7
67.5°	277.2	272.4	267.8	270.4	269.1
70°	231.7	229.1	224.6	227.2	223.9
72.5°	188.8	186.6	182.0	184.9	181.7
75°	147.2	145.0	141.4	144.0	140.7
77.5°	107.9	106.3	103.0	105.6	106.3
80°	72.2	70.2	68.6	70.9	71.5
82.5°	42.3	41.0	40.3	40.6	42.3
85°	20.5	18.9	18.9	19.2	19.2
87.5°	5.5	4.9	5.5	5.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)