

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: P974161

Luminaire Tested: FLR2-24-20-L930-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974161  
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: FLR2-24-20-L930-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-20-L930-CA125  
Ballast/Driver: -

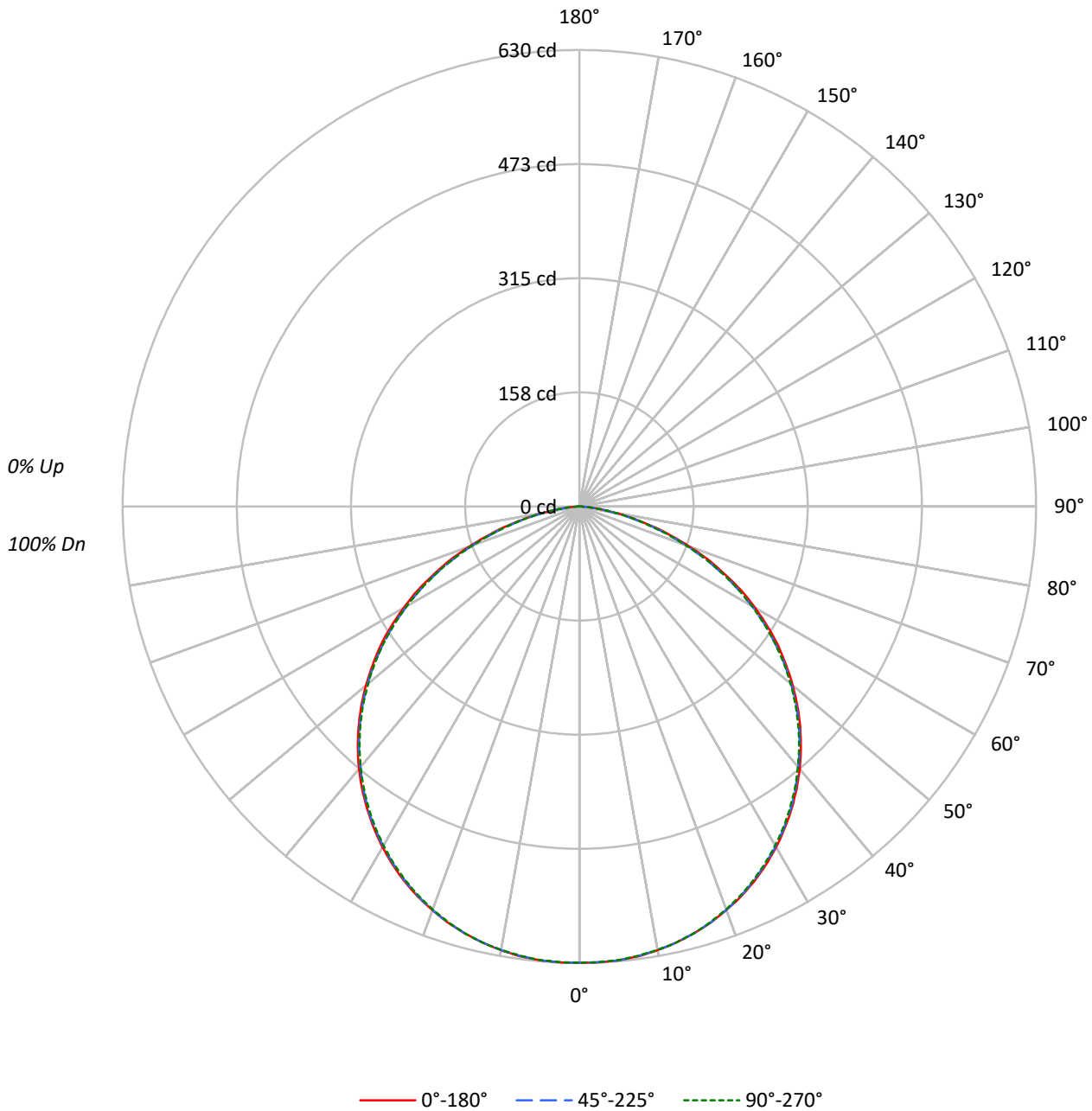
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1779.9 lumens  
Efficiency: N/A  
Efficacy: 106.6 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): 16.7  
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°	847	847	847
5°	849	849	848
10°	850	849	849
15°	850	850	850
20°	849	849	847
25°	847	846	844
30°	844	841	839
35°	838	836	833
40°	831	826	824
45°	820	815	813
50°	805	798	796
55°	786	774	773
60°	753	739	739
65°	704	688	690
70°	634	614	613
75°	532	511	508
80°	389	370	385
85°	219	202	205

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 820 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	3.4
10°-20°	172.2	9.7
20°-30°	262.6	14.8
30°-40°	318.1	17.9
40°-50°	330.4	18.6
50°-60°	295.6	16.6
60°-70°	215.4	12.1
70°-80°	106.7	6.0
80°-90°	19.1	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°	494.6	27.8
0°-40°	812.7	45.7
0°-60°	1438.7	80.8
0°-90°	1779.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1779.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	629	629	629	629	628	60
15°	610	610	610	610	610	172
25°	571	570	570	569	569	263
35°	510	510	509	508	507	319
45°	431	430	428	428	427	332
55°	335	332	330	330	330	298
65°	221	219	216	217	217	219
75°	102	101	98	100	98	109
85°	14	13	13	13	13	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	629.8	629.8	629.8	629.8	629.8
2.5°	629.8	629.6	629.6	629.8	629.3
5°	628.6	628.9	628.6	628.6	628.2
7.5°	626.2	625.9	625.7	625.9	625.3
10°	621.9	621.9	621.6	621.9	621.4
12.5°	616.7	616.7	616.7	616.9	616.7
15°	610.1	609.9	609.9	610.3	609.9
17.5°	602.4	602.2	602.2	602.0	601.5
20°	592.9	592.9	592.7	592.5	591.8
22.5°	582.8	582.6	581.9	581.9	581.0
25°	570.8	570.1	569.7	569.4	568.8
27.5°	557.7	556.8	556.1	555.7	555.0
30°	543.0	542.1	541.4	540.7	540.3
32.5°	527.2	526.7	525.6	525.4	524.5
35°	510.2	509.6	508.9	508.0	507.1
37.5°	492.2	491.5	489.9	489.5	488.8
40°	473.0	472.1	470.0	470.0	469.3
42.5°	452.4	451.5	450.1	449.2	448.8
45°	430.9	430.0	428.4	427.5	427.1
47.5°	408.1	407.4	405.6	404.9	404.3
50°	384.4	383.5	381.4	381.0	380.3
52.5°	359.5	359.1	356.4	356.1	355.5
55°	334.9	332.4	330.1	330.1	329.7
57.5°	307.8	306.0	303.0	303.0	302.6
60°	279.8	278.2	274.8	275.2	274.8
62.5°	252.4	249.0	245.9	247.2	246.1
65°	221.2	219.4	216.0	216.9	216.7
67.5°	192.8	189.4	186.2	188.0	187.1
70°	161.1	159.3	156.1	158.0	155.7
72.5°	131.3	129.7	126.5	128.6	126.3
75°	102.4	100.8	98.3	100.1	97.8
77.5°	75.0	73.9	71.6	73.4	73.9
80°	50.2	48.8	47.7	49.3	49.7
82.5°	29.4	28.5	28.0	28.2	29.4
85°	14.2	13.1	13.1	13.3	13.3
87.5°	3.8	3.4	3.8	4.1	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)