

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: P973522

Luminaire Tested: FLR2-22-25-L830-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973522  
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: FLR2-22-25-L830-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

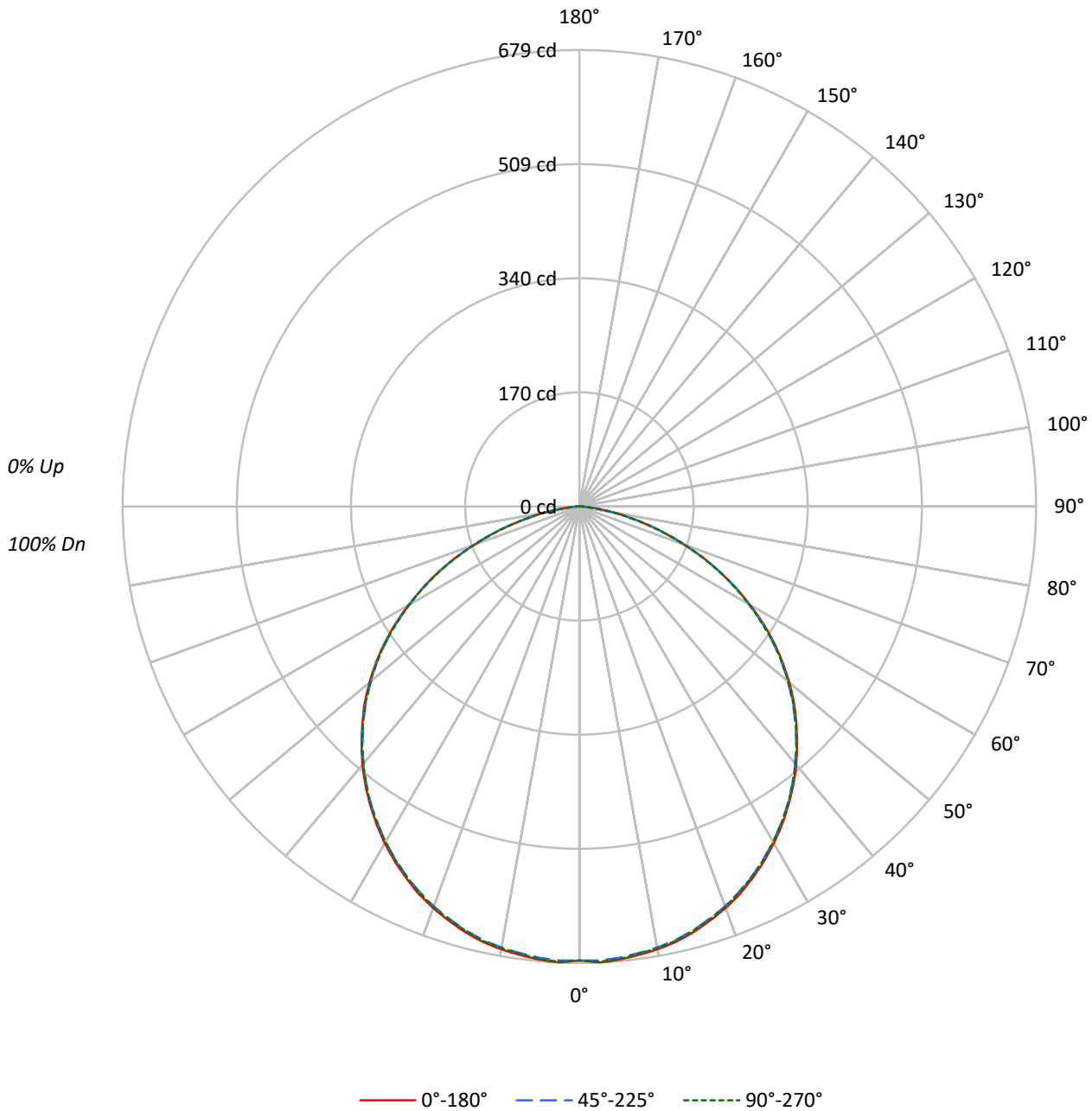
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1888.1 lumens  
Efficiency: N/A  
Efficacy: 99.9 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): 18.9  
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°	1817	1817	1817
5°	1828	1820	1826
10°	1828	1820	1823
15°	1826	1818	1821
20°	1820	1813	1815
25°	1810	1803	1804
30°	1797	1789	1791
35°	1781	1774	1776
40°	1762	1754	1755
45°	1736	1728	1732
50°	1706	1693	1697
55°	1657	1643	1650
60°	1576	1569	1569
65°	1471	1468	1463
70°	1303	1309	1306
75°	1097	1089	1079
80°	789	775	769
85°	411	411	398

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1736 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.9	3.4
10°-20°	183.9	9.7
20°-30°	279.4	14.8
30°-40°	337.7	17.9
40°-50°	350.5	18.6
50°-60°	313.4	16.6
60°-70°	227.9	12.1
70°-80°	112.0	5.9
80°-90°	19.4	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°	527.2	27.9
0°-40°	864.9	45.8
0°-60°	1528.8	81.0
0°-90°	1888.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1888.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	677	669	674	671	676	64
15°	656	648	653	651	654	185
25°	610	603	607	606	608	281
35°	542	538	540	540	540	339
45°	456	454	454	455	455	352
55°	353	351	350	351	352	315
65°	231	232	231	231	230	228
75°	106	106	105	105	104	112
85°	13	14	13	13	13	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	675.2	675.2	675.2	675.2	675.2
2.5°	678.9	671.0	676.0	673.1	677.7
5°	676.8	668.9	673.9	671.4	676.0
7.5°	673.1	665.2	670.2	667.7	671.4
10°	668.9	660.6	666.0	663.5	667.3
12.5°	663.5	655.6	660.6	658.5	661.8
15°	655.6	648.1	652.7	651.0	653.5
17.5°	646.0	638.5	643.1	641.8	643.9
20°	635.6	628.5	633.1	631.8	633.9
22.5°	623.9	616.4	620.5	619.7	621.4
25°	609.7	603.0	607.2	605.9	607.6
27.5°	594.7	588.4	591.8	591.8	592.6
30°	578.4	572.6	575.9	575.9	576.3
32.5°	560.9	556.3	558.4	558.8	558.8
35°	542.1	538.4	540.1	540.5	540.5
37.5°	522.5	518.8	520.0	520.9	520.9
40°	501.7	498.4	499.2	500.0	499.6
42.5°	479.2	476.7	477.1	477.9	477.9
45°	456.2	454.1	454.1	455.0	455.0
47.5°	432.9	430.8	430.0	430.8	430.8
50°	407.4	405.4	404.5	405.4	405.4
52.5°	380.7	378.7	378.7	378.7	379.1
55°	353.2	351.1	350.3	351.1	351.6
57.5°	324.0	323.2	321.9	322.4	321.1
60°	292.8	292.8	291.5	292.3	291.5
62.5°	262.3	263.1	261.9	261.9	261.1
65°	231.0	231.9	230.6	230.6	229.8
67.5°	198.9	200.2	198.5	198.5	197.7
70°	165.6	168.1	166.4	166.8	166.0
72.5°	135.5	136.8	135.1	135.1	134.3
75°	105.5	106.3	104.7	105.1	103.8
77.5°	75.9	77.2	75.5	75.9	75.5
80°	50.9	51.3	50.0	50.5	49.6
82.5°	29.6	30.0	29.6	29.2	28.8
85°	13.3	13.8	13.3	13.3	12.9
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)