

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: P973498

Luminaire Tested: FLR2-22-25-L830-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973498  
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-CP080  
Description: SHAPER SENSE CIRCLE  
LIGHT LEVEL 1  
Light Source:  
Ballast/Driver: -

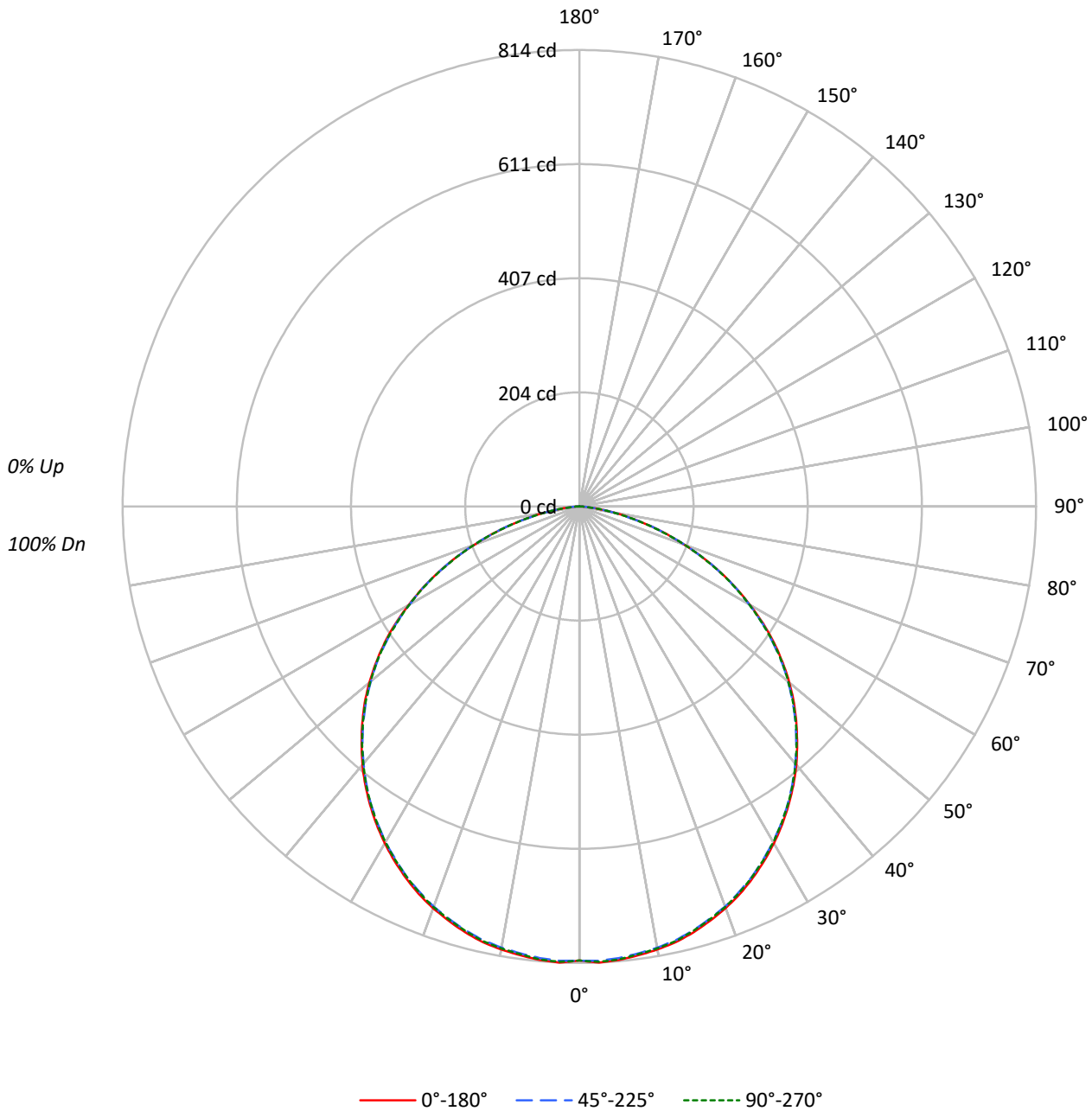
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2264.5 lumens  
Efficiency: N/A  
Efficacy: 119.8 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					100															
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	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	40	34	29	27					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

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

	0°	45°	90°
0°	2179	2179	2179
5°	2193	2183	2190
10°	2192	2183	2187
15°	2191	2181	2184
20°	2183	2174	2177
25°	2171	2162	2164
30°	2156	2146	2148
35°	2136	2128	2129
40°	2114	2103	2105
45°	2082	2073	2077
50°	2046	2031	2035
55°	1987	1971	1978
60°	1890	1882	1882
65°	1764	1761	1755
70°	1563	1570	1566
75°	1315	1305	1294
80°	945	930	922
85°	494	494	479

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2082 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.7	3.4
10°-20°	220.5	9.7
20°-30°	335.1	14.8
30°-40°	405.0	17.9
40°-50°	420.4	18.6
50°-60°	375.9	16.6
60°-70°	273.3	12.1
70°-80°	134.4	5.9
80°-90°	23.3	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°	632.3	27.9
0°-40°	1037.3	45.8
0°-60°	1833.6	81.0
0°-90°	2264.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	812	802	808	805	811	77
15°	786	777	783	781	784	222
25°	731	723	728	727	729	337
35°	650	646	648	648	648	407
45°	547	545	545	546	546	422
55°	424	421	420	421	422	378
65°	277	278	277	277	276	273
75°	126	128	126	126	124	134
85°	16	16	16	16	16	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	809.8	809.8	809.8	809.8	809.8
2.5°	814.3	804.8	810.8	807.3	812.8
5°	811.8	802.3	808.3	805.3	810.8
7.5°	807.3	797.8	803.8	800.8	805.3
10°	802.3	792.3	798.8	795.8	800.3
12.5°	795.8	786.3	792.3	789.8	793.8
15°	786.3	777.3	782.8	780.8	783.8
17.5°	774.8	765.8	771.3	769.8	772.3
20°	762.3	753.8	759.3	757.8	760.3
22.5°	748.2	739.2	744.2	743.2	745.2
25°	731.2	723.2	728.2	726.7	728.7
27.5°	713.2	705.7	709.7	709.7	710.7
30°	693.7	686.7	690.7	690.7	691.2
32.5°	672.7	667.2	669.7	670.2	670.2
35°	650.2	645.7	647.7	648.2	648.2
37.5°	626.7	622.2	623.7	624.7	624.7
40°	601.7	597.7	598.7	599.7	599.2
42.5°	574.7	571.7	572.2	573.2	573.2
45°	547.2	544.7	544.7	545.7	545.7
47.5°	519.2	516.7	515.7	516.7	516.7
50°	488.7	486.2	485.2	486.2	486.2
52.5°	456.7	454.2	454.2	454.2	454.7
55°	423.6	421.1	420.1	421.1	421.6
57.5°	388.6	387.6	386.1	386.6	385.1
60°	351.1	351.1	349.6	350.6	349.6
62.5°	314.6	315.6	314.1	314.1	313.1
65°	277.1	278.1	276.6	276.6	275.6
67.5°	238.6	240.1	238.1	238.1	237.1
70°	198.6	201.6	199.6	200.1	199.1
72.5°	162.6	164.1	162.1	162.1	161.1
75°	126.5	127.5	125.5	126.0	124.5
77.5°	91.0	92.5	90.5	91.0	90.5
80°	61.0	61.5	60.0	60.5	59.5
82.5°	35.5	36.0	35.5	35.0	34.5
85°	16.0	16.5	16.0	16.0	15.5
87.5°	4.0	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)