

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: P973630

Luminaire Tested: FLR2-22-25-L840-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973630  
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-L840-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

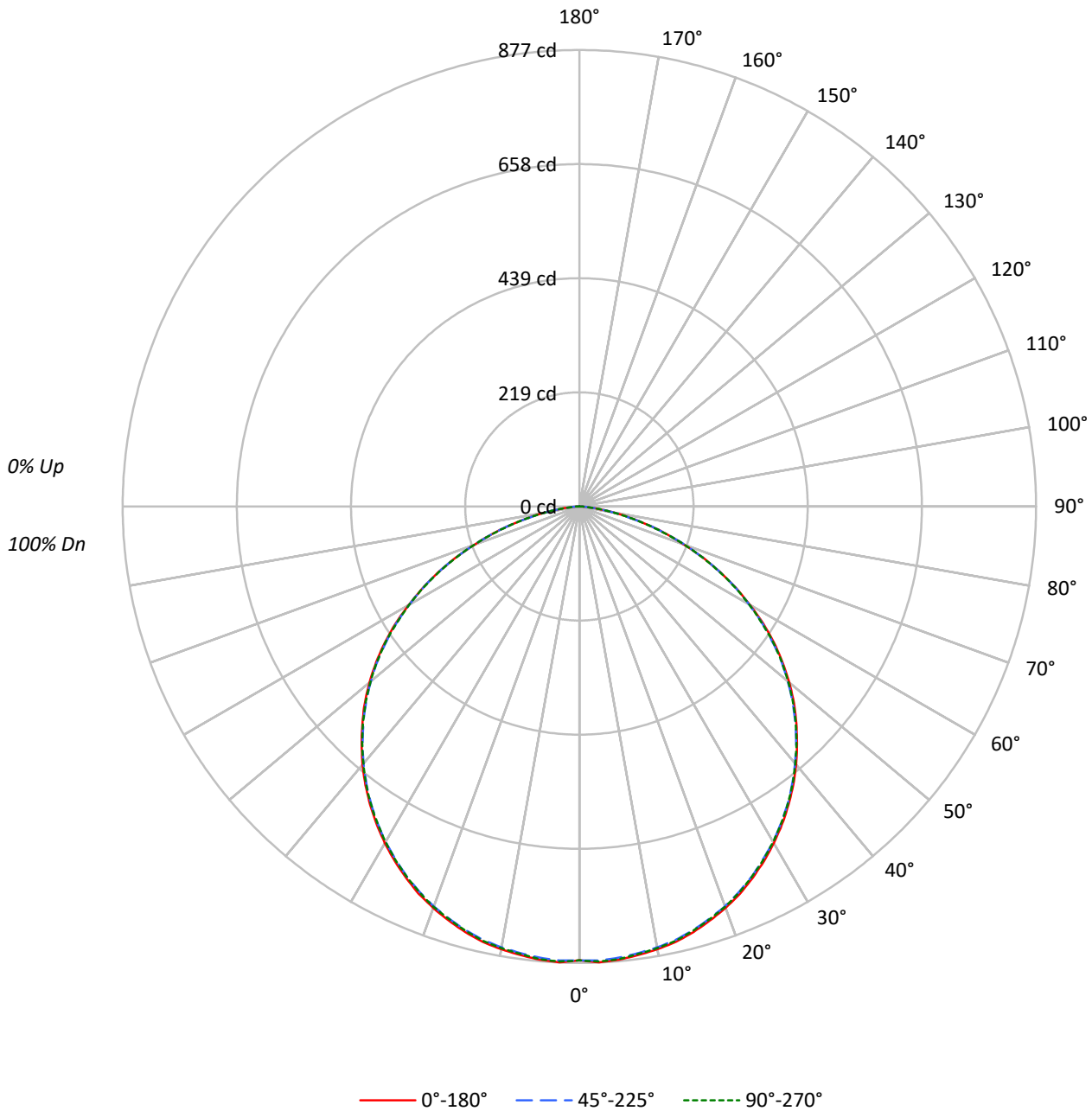
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2438.4 lumens  
Efficiency: N/A  
Efficacy: 129.0 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): 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°	2347	2347	2347
5°	2361	2351	2358
10°	2361	2350	2355
15°	2359	2348	2351
20°	2351	2341	2344
25°	2338	2328	2330
30°	2321	2311	2313
35°	2300	2291	2293
40°	2276	2265	2266
45°	2242	2232	2236
50°	2203	2187	2192
55°	2140	2122	2130
60°	2035	2026	2026
65°	1900	1896	1890
70°	1682	1691	1687
75°	1417	1406	1394
80°	1018	1001	993
85°	531	531	516

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2242 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	3.4
10°-20°	237.4	9.7
20°-30°	360.8	14.8
30°-40°	436.1	17.9
40°-50°	452.7	18.6
50°-60°	404.7	16.6
60°-70°	294.3	12.1
70°-80°	144.7	5.9
80°-90°	25.1	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°	680.8	27.9
0°-40°	1117.0	45.8
0°-60°	1974.4	81.0
0°-90°	2438.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2438.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	874	864	870	867	873	83
15°	847	837	843	841	844	239
25°	787	779	784	783	785	363
35°	700	695	698	698	698	438
45°	589	586	586	588	588	454
55°	456	454	452	454	454	407
65°	298	299	298	298	297	294
75°	136	137	135	136	134	145
85°	17	18	17	17	17	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.0	872.0	872.0	872.0	872.0
2.5°	876.8	866.6	873.0	869.3	875.2
5°	874.1	863.9	870.3	867.1	873.0
7.5°	869.3	859.0	865.5	862.3	867.1
10°	863.9	853.1	860.1	856.9	861.7
12.5°	856.9	846.6	853.1	850.4	854.7
15°	846.6	837.0	842.9	840.7	844.0
17.5°	834.3	824.6	830.5	828.9	831.6
20°	820.8	811.6	817.6	815.9	818.6
22.5°	805.7	796.0	801.4	800.3	802.5
25°	787.4	778.8	784.2	782.6	784.7
27.5°	768.0	759.9	764.2	764.2	765.3
30°	747.0	739.5	743.8	743.8	744.3
32.5°	724.4	718.5	721.2	721.7	721.7
35°	700.2	695.3	697.5	698.0	698.0
37.5°	674.8	670.0	671.6	672.7	672.7
40°	647.9	643.6	644.7	645.8	645.2
42.5°	618.8	615.6	616.1	617.2	617.2
45°	589.2	586.5	586.5	587.6	587.6
47.5°	559.0	556.4	555.3	556.4	556.4
50°	526.2	523.5	522.4	523.5	523.5
52.5°	491.7	489.0	489.0	489.0	489.6
55°	456.2	453.5	452.4	453.5	454.0
57.5°	418.5	417.4	415.8	416.3	414.7
60°	378.1	378.1	376.5	377.5	376.5
62.5°	338.8	339.8	338.2	338.2	337.2
65°	298.4	299.4	297.8	297.8	296.8
67.5°	256.9	258.5	256.4	256.4	255.3
70°	213.8	217.0	214.9	215.4	214.4
72.5°	175.0	176.7	174.5	174.5	173.4
75°	136.3	137.3	135.2	135.7	134.1
77.5°	98.0	99.6	97.5	98.0	97.5
80°	65.7	66.2	64.6	65.2	64.1
82.5°	38.2	38.8	38.2	37.7	37.2
85°	17.2	17.8	17.2	17.2	16.7
87.5°	4.3	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)