

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: P973647

Luminaire Tested: FLR2-22-35-L940-CP187

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973647  
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: FLR2-22-35-L940-CP187  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

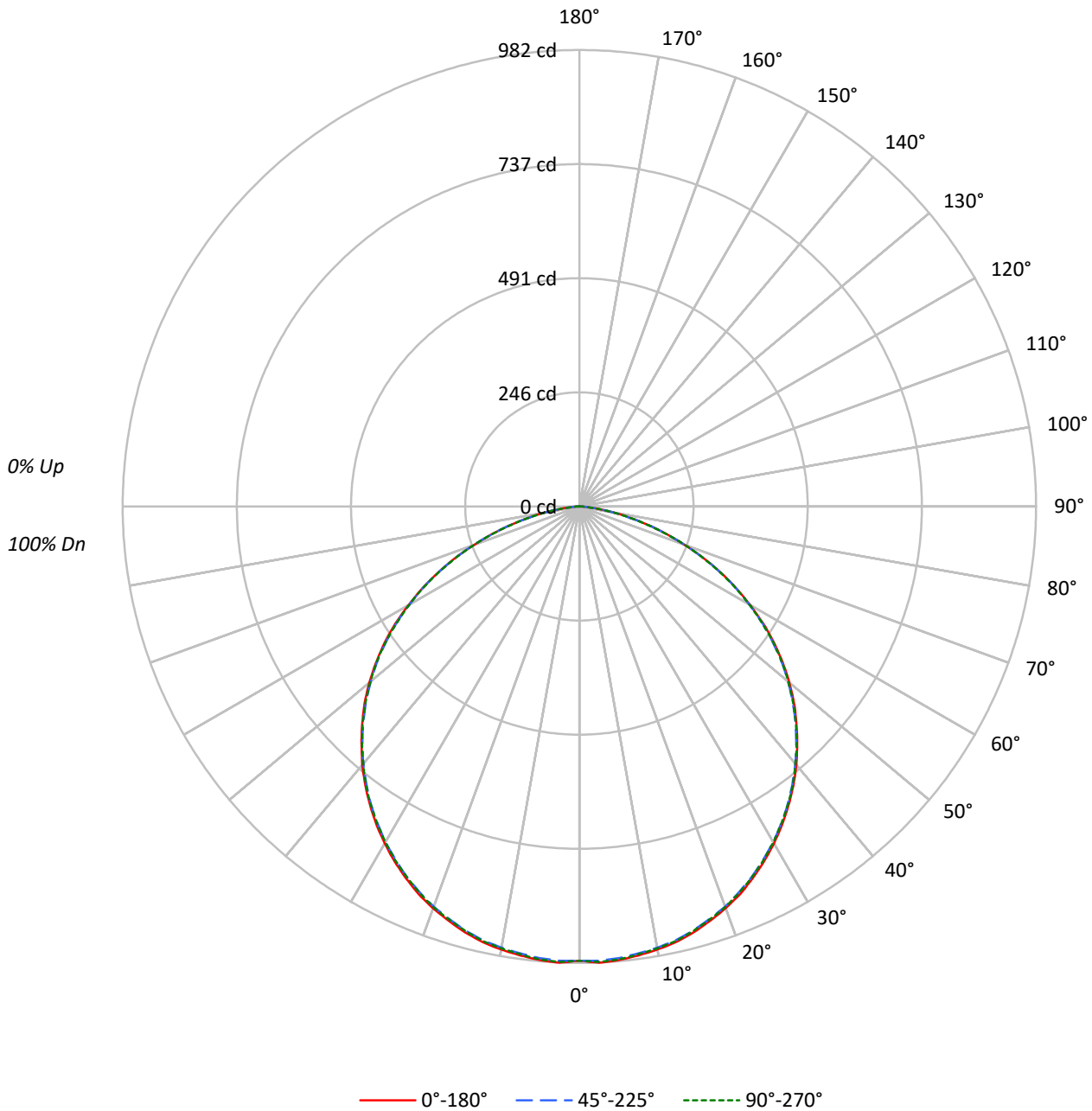
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2732.4 lumens  
Efficiency: N/A  
Efficacy: 97.9 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): 27.9  
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				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	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°	2629	2629	2629
5°	2646	2635	2643
10°	2645	2634	2638
15°	2643	2631	2635
20°	2634	2623	2627
25°	2620	2609	2611
30°	2601	2590	2592
35°	2577	2568	2570
40°	2550	2538	2540
45°	2512	2501	2506
50°	2468	2451	2456
55°	2398	2379	2387
60°	2280	2271	2271
65°	2129	2125	2117
70°	1885	1895	1890
75°	1588	1575	1563
80°	1141	1122	1113
85°	596	596	577

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2512 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	3.4
10°-20°	266.1	9.7
20°-30°	404.3	14.8
30°-40°	488.7	17.9
40°-50°	507.3	18.6
50°-60°	453.5	16.6
60°-70°	329.7	12.1
70°-80°	162.1	5.9
80°-90°	28.1	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°	762.9	27.9
0°-40°	1251.7	45.8
0°-60°	2212.5	81.0
0°-90°	2732.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2732.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	980	968	975	972	978	93
15°	949	938	944	942	946	268
25°	882	873	879	877	879	407
35°	785	779	782	782	782	491
45°	660	657	657	658	658	509
55°	511	508	507	508	509	456
65°	334	336	334	334	332	330
75°	153	154	152	152	150	162
85°	19	20	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°	977.1	977.1	977.1	977.1	977.1
2.5°	982.5	971.1	978.3	974.1	980.7
5°	979.5	968.0	975.3	971.7	978.3
7.5°	974.1	962.6	969.8	966.2	971.7
10°	968.0	956.0	963.8	960.2	965.6
12.5°	960.2	948.7	956.0	953.0	957.8
15°	948.7	937.9	944.5	942.1	945.7
17.5°	934.8	924.0	930.6	928.8	931.8
20°	919.8	909.5	916.1	914.3	917.3
22.5°	902.9	892.0	898.0	896.8	899.2
25°	882.3	872.7	878.7	876.9	879.3
27.5°	860.6	851.6	856.4	856.4	857.6
30°	837.1	828.6	833.5	833.5	834.1
32.5°	811.7	805.1	808.1	808.7	808.7
35°	784.6	779.1	781.6	782.2	782.2
37.5°	756.2	750.8	752.6	753.8	753.8
40°	726.0	721.2	722.4	723.6	723.0
42.5°	693.4	689.8	690.4	691.6	691.6
45°	660.2	657.2	657.2	658.4	658.4
47.5°	626.4	623.4	622.2	623.4	623.4
50°	589.6	586.6	585.4	586.6	586.6
52.5°	551.0	548.0	548.0	548.0	548.6
55°	511.2	508.2	507.0	508.2	508.8
57.5°	468.9	467.7	465.9	466.5	464.7
60°	423.7	423.7	421.9	423.1	421.9
62.5°	379.6	380.8	379.0	379.0	377.8
65°	334.3	335.6	333.7	333.7	332.5
67.5°	287.9	289.7	287.3	287.3	286.1
70°	239.6	243.2	240.8	241.4	240.2
72.5°	196.1	198.0	195.5	195.5	194.3
75°	152.7	153.9	151.5	152.1	150.3
77.5°	109.8	111.7	109.2	109.8	109.2
80°	73.6	74.2	72.4	73.0	71.8
82.5°	42.8	43.5	42.8	42.2	41.6
85°	19.3	19.9	19.3	19.3	18.7
87.5°	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)