

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: P973643

Luminaire Tested: FLR2-22-35-L940-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973643  
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-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

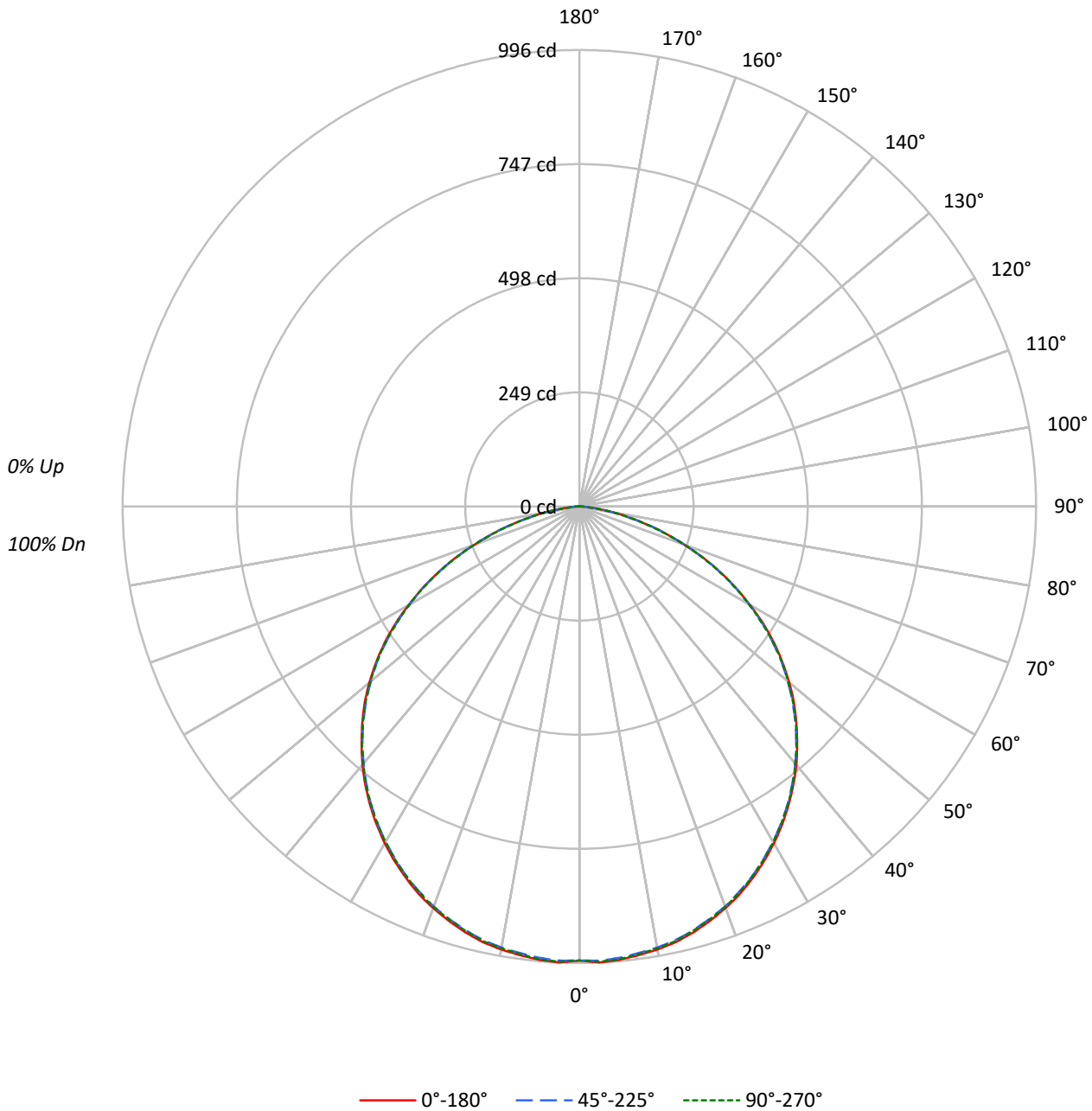
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2770.4 lumens  
Efficiency: N/A  
Efficacy: 99.3 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										
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°	2666	2666	2666
5°	2683	2671	2679
10°	2682	2670	2675
15°	2680	2668	2671
20°	2670	2660	2664
25°	2656	2645	2647
30°	2637	2626	2628
35°	2613	2603	2605
40°	2586	2573	2575
45°	2547	2536	2541
50°	2503	2485	2490
55°	2432	2411	2420
60°	2312	2302	2302
65°	2159	2155	2146
70°	1911	1921	1916
75°	1609	1597	1585
80°	1156	1137	1128
85°	605	605	587

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2547 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.8	3.4
10°-20°	269.8	9.7
20°-30°	410.0	14.8
30°-40°	495.5	17.9
40°-50°	514.3	18.6
50°-60°	459.8	16.6
60°-70°	334.3	12.1
70°-80°	164.4	5.9
80°-90°	28.5	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°	773.5	27.9
0°-40°	1269.0	45.8
0°-60°	2243.1	81.0
0°-90°	2770.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2770.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	993	982	989	985	992	94
15°	962	951	958	955	959	271
25°	895	885	891	889	892	412
35°	795	790	792	793	793	498
45°	669	666	666	668	668	516
55°	518	515	514	515	516	462
65°	339	340	338	338	337	334
75°	155	156	154	154	152	164
85°	20	20	20	20	19	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	990.6	990.6	990.6	990.6	990.6
2.5°	996.1	984.5	991.9	987.6	994.3
5°	993.1	981.5	988.8	985.1	991.9
7.5°	987.6	976.0	983.3	979.6	985.1
10°	981.5	969.2	977.2	973.5	979.0
12.5°	973.5	961.9	969.2	966.2	971.1
15°	961.9	950.9	957.6	955.1	958.8
17.5°	947.8	936.8	943.5	941.7	944.7
20°	932.5	922.1	928.8	927.0	930.1
22.5°	915.4	904.4	910.5	909.3	911.7
25°	894.6	884.8	890.9	889.1	891.5
27.5°	872.5	863.4	868.3	868.3	869.5
30°	848.7	840.1	845.0	845.0	845.6
32.5°	823.0	816.3	819.3	819.9	819.9
35°	795.4	789.9	792.4	793.0	793.0
37.5°	766.7	761.2	763.0	764.2	764.2
40°	736.1	731.2	732.4	733.6	733.0
42.5°	703.1	699.4	700.0	701.2	701.2
45°	669.4	666.3	666.3	667.6	667.6
47.5°	635.1	632.1	630.9	632.1	632.1
50°	597.8	594.8	593.5	594.8	594.8
52.5°	558.6	555.6	555.6	555.6	556.2
55°	518.3	515.2	514.0	515.2	515.8
57.5°	475.4	474.2	472.4	473.0	471.1
60°	429.5	429.5	427.7	428.9	427.7
62.5°	384.9	386.1	384.3	384.3	383.0
65°	339.0	340.2	338.4	338.4	337.1
67.5°	291.9	293.7	291.3	291.3	290.0
70°	242.9	246.6	244.1	244.8	243.5
72.5°	198.9	200.7	198.3	198.3	197.0
75°	154.8	156.0	153.6	154.2	152.4
77.5°	111.4	113.2	110.8	111.4	110.8
80°	74.6	75.3	73.4	74.0	72.8
82.5°	43.4	44.1	43.4	42.8	42.2
85°	19.6	20.2	19.6	19.6	19.0
87.5°	4.9	4.9	4.9	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)