

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: P973703

Luminaire Tested: FLR2-22-35-L950-CP187

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973703  
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-L950-CP187  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

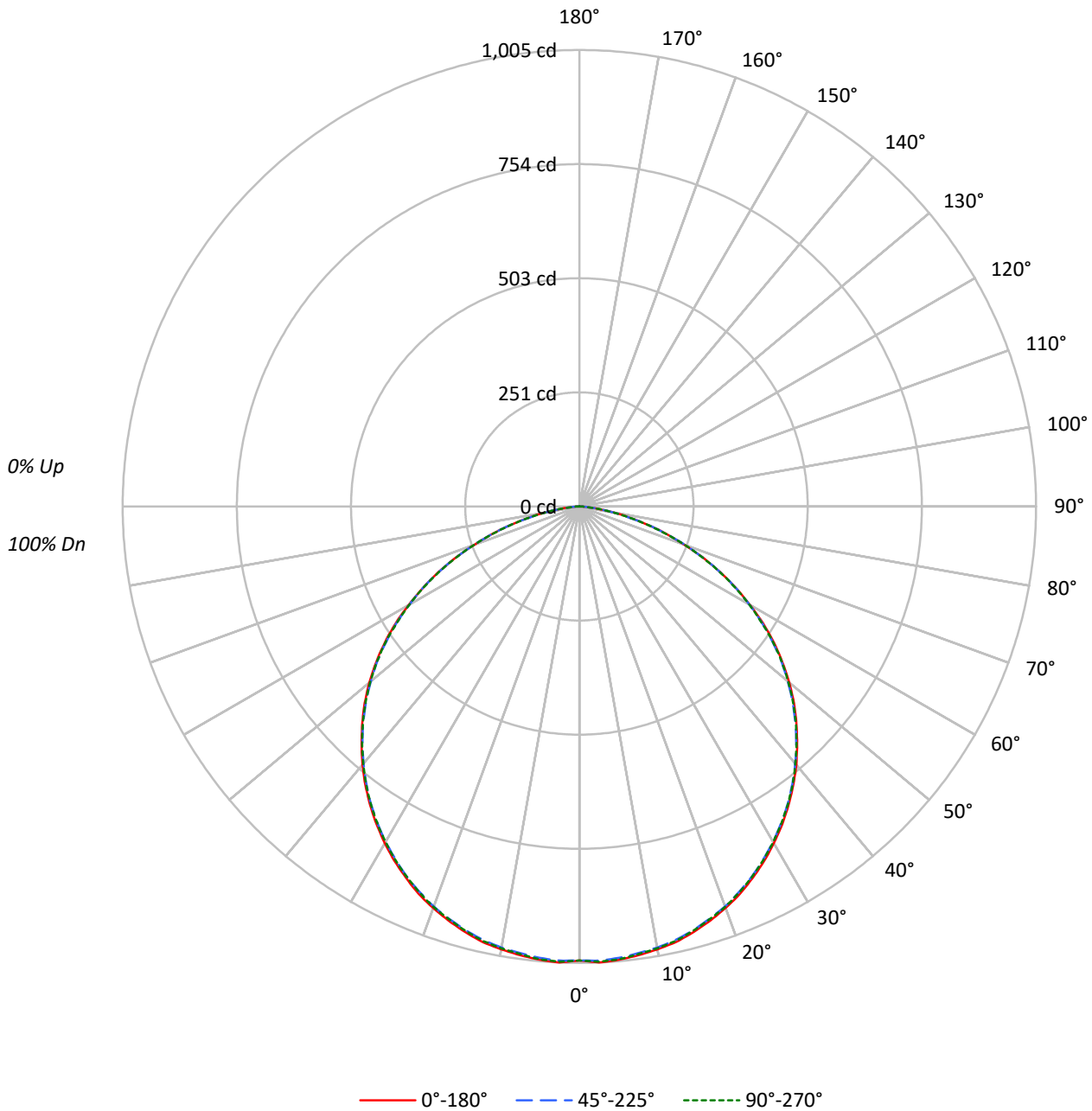
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2795.2 lumens  
Efficiency: N/A  
Efficacy: 100.2 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°	2690	2690	2690
5°	2707	2695	2703
10°	2706	2694	2699
15°	2704	2692	2695
20°	2694	2684	2687
25°	2680	2669	2671
30°	2661	2649	2651
35°	2637	2626	2628
40°	2609	2596	2598
45°	2570	2559	2563
50°	2525	2507	2512
55°	2453	2433	2442
60°	2333	2323	2323
65°	2178	2174	2166
70°	1928	1938	1933
75°	1624	1612	1598
80°	1167	1148	1139
85°	611	611	590

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2570 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.6	3.4
10°-20°	272.2	9.7
20°-30°	413.6	14.8
30°-40°	500.0	17.9
40°-50°	518.9	18.6
50°-60°	463.9	16.6
60°-70°	337.3	12.1
70°-80°	165.9	5.9
80°-90°	28.8	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°	780.5	27.9
0°-40°	1280.4	45.8
0°-60°	2263.3	81.0
0°-90°	2795.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2795.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	1002	990	998	994	1001	95
15°	970	959	966	964	967	274
25°	903	893	899	897	900	416
35°	803	797	800	800	800	502
45°	675	672	672	674	674	521
55°	523	520	519	520	520	466
65°	342	343	341	341	340	337
75°	156	157	155	156	154	166
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°	999.6	999.6	999.6	999.6	999.6
2.5°	1005.1	993.4	1000.8	996.5	1003.3
5°	1002.0	990.3	997.7	994.0	1000.8
7.5°	996.5	984.7	992.1	988.4	994.0
10°	990.3	977.9	986.0	982.3	987.8
12.5°	982.3	970.5	977.9	974.9	979.8
15°	970.5	959.4	966.2	963.7	967.4
17.5°	956.3	945.2	952.0	950.2	953.2
20°	940.9	930.4	937.2	935.3	938.4
22.5°	923.6	912.5	918.7	917.4	919.9
25°	902.6	892.7	898.9	897.1	899.5
27.5°	880.4	871.1	876.1	876.1	877.3
30°	856.3	847.7	852.6	852.6	853.2
32.5°	830.4	823.6	826.7	827.3	827.3
35°	802.6	797.0	799.5	800.1	800.1
37.5°	773.6	768.0	769.9	771.1	771.1
40°	742.7	737.8	739.0	740.2	739.6
42.5°	709.4	705.7	706.3	707.5	707.5
45°	675.4	672.3	672.3	673.6	673.6
47.5°	640.8	637.8	636.5	637.8	637.8
50°	603.2	600.1	598.9	600.1	600.1
52.5°	563.7	560.6	560.6	560.6	561.2
55°	522.9	519.8	518.6	519.8	520.5
57.5°	479.7	478.5	476.6	477.2	475.4
60°	433.4	433.4	431.6	432.8	431.6
62.5°	388.3	389.6	387.7	387.7	386.5
65°	342.0	343.3	341.4	341.4	340.2
67.5°	294.5	296.3	293.9	293.9	292.6
70°	245.1	248.8	246.3	247.0	245.7
72.5°	200.7	202.5	200.0	200.0	198.8
75°	156.2	157.4	155.0	155.6	153.7
77.5°	112.4	114.2	111.7	112.4	111.7
80°	75.3	75.9	74.1	74.7	73.5
82.5°	43.8	44.5	43.8	43.2	42.6
85°	19.8	20.4	19.8	19.8	19.1
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)