

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: P973695

Luminaire Tested: FLR2-22-35-L950-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973695  
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-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

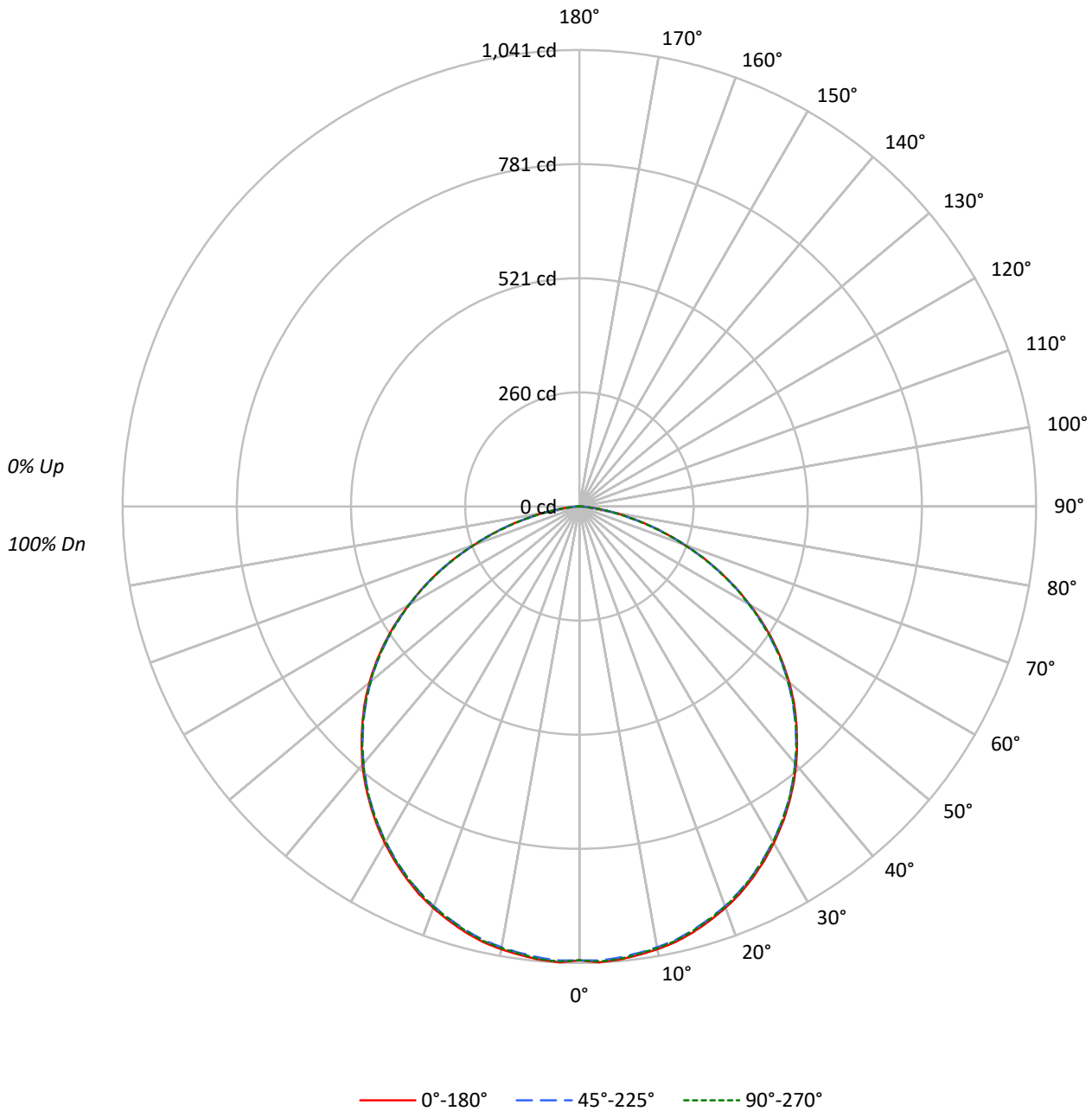
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2894.3 lumens  
Efficiency: N/A  
Efficacy: 103.7 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°	2785	2785	2785
5°	2803	2790	2799
10°	2802	2790	2795
15°	2800	2787	2791
20°	2790	2779	2783
25°	2775	2764	2765
30°	2755	2743	2745
35°	2730	2719	2722
40°	2701	2688	2690
45°	2661	2649	2654
50°	2615	2596	2601
55°	2540	2519	2528
60°	2415	2405	2405
65°	2255	2251	2243
70°	1997	2007	2002
75°	1681	1669	1655
80°	1209	1189	1179
85°	633	633	611

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2661 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	3.4
10°-20°	281.8	9.7
20°-30°	428.3	14.8
30°-40°	517.7	17.9
40°-50°	537.3	18.6
50°-60°	480.4	16.6
60°-70°	349.3	12.1
70°-80°	171.8	5.9
80°-90°	29.8	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°	808.1	27.9
0°-40°	1325.8	45.8
0°-60°	2343.5	81.0
0°-90°	2894.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2894.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1038	1025	1033	1029	1036	99
15°	1005	993	1000	998	1002	284
25°	935	924	931	929	931	431
35°	831	825	828	828	828	520
45°	699	696	696	697	697	539
55°	541	538	537	538	539	483
65°	354	355	354	354	352	349
75°	162	163	160	161	159	172
85°	20	21	20	20	20	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1035.0	1035.0	1035.0	1035.0	1035.0
2.5°	1040.7	1028.6	1036.2	1031.8	1038.8
5°	1037.5	1025.4	1033.0	1029.2	1036.2
7.5°	1031.8	1019.6	1027.3	1023.4	1029.2
10°	1025.4	1012.6	1020.9	1017.1	1022.8
12.5°	1017.1	1004.9	1012.6	1009.4	1014.5
15°	1004.9	993.4	1000.4	997.9	1001.7
17.5°	990.2	978.7	985.7	983.8	987.0
20°	974.2	963.4	970.4	968.5	971.7
22.5°	956.3	944.8	951.2	949.9	952.5
25°	934.6	924.4	930.8	928.8	931.4
27.5°	911.6	902.0	907.1	907.1	908.4
30°	886.6	877.7	882.8	882.8	883.4
32.5°	859.8	852.8	856.0	856.6	856.6
35°	831.0	825.3	827.8	828.5	828.5
37.5°	801.0	795.2	797.1	798.4	798.4
40°	769.0	763.9	765.2	766.5	765.8
42.5°	734.5	730.7	731.3	732.6	732.6
45°	699.3	696.1	696.1	697.4	697.4
47.5°	663.5	660.3	659.1	660.3	660.3
50°	624.6	621.4	620.1	621.4	621.4
52.5°	583.6	580.4	580.4	580.4	581.1
55°	541.4	538.3	537.0	538.3	538.9
57.5°	496.7	495.4	493.5	494.1	492.2
60°	448.8	448.8	446.8	448.1	446.8
62.5°	402.1	403.4	401.5	401.5	400.2
65°	354.1	355.4	353.5	353.5	352.2
67.5°	304.9	306.8	304.3	304.3	303.0
70°	253.8	257.6	255.1	255.7	254.4
72.5°	207.8	209.7	207.1	207.1	205.8
75°	161.7	163.0	160.5	161.1	159.2
77.5°	116.3	118.3	115.7	116.3	115.7
80°	78.0	78.6	76.7	77.3	76.1
82.5°	45.4	46.0	45.4	44.7	44.1
85°	20.5	21.1	20.5	20.5	19.8
87.5°	5.1	5.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)