

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: P973702

Luminaire Tested: FLR2-22-25-L950-CP187

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973702  
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-L950-CP187  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

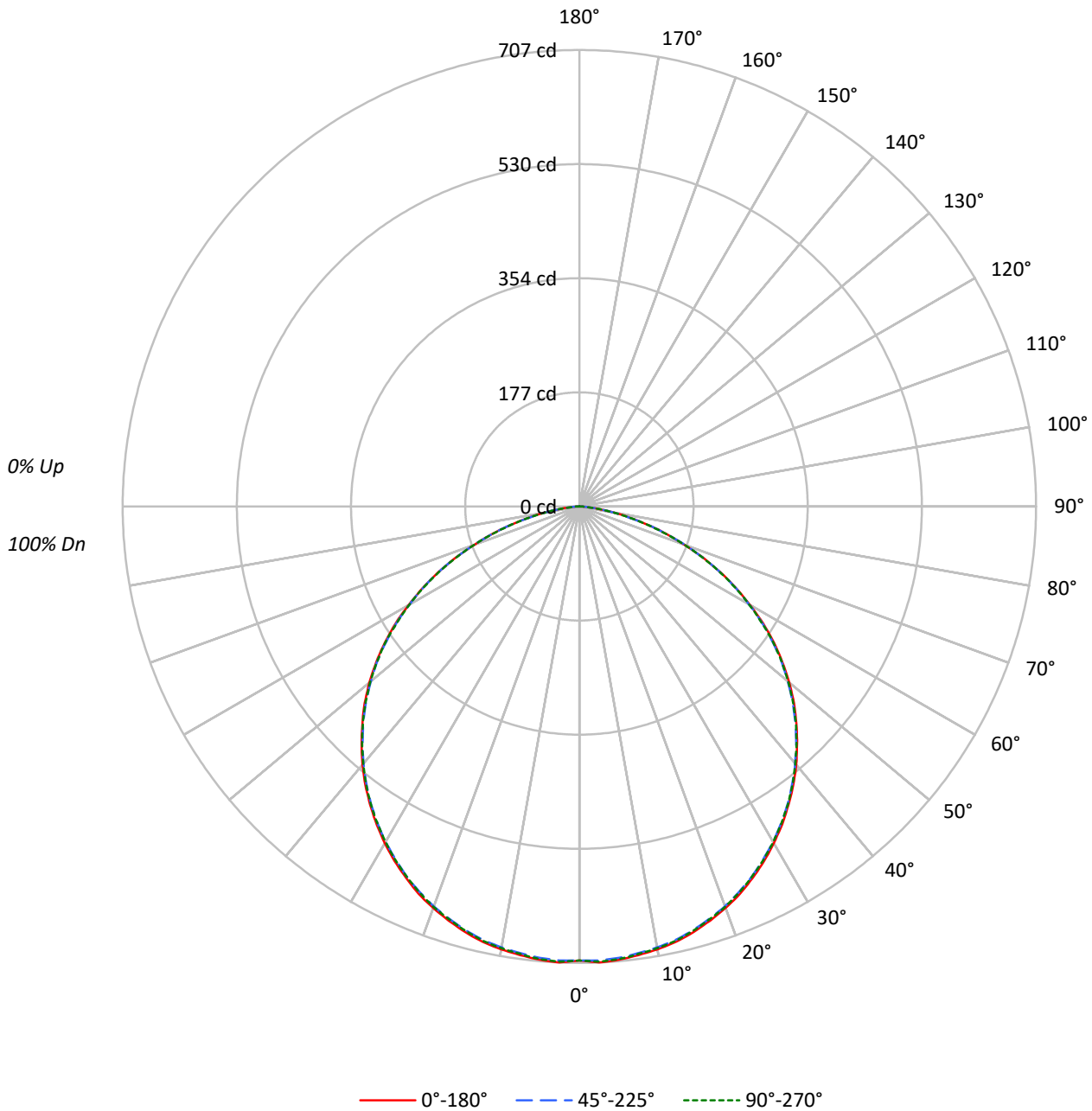
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1966.2 lumens  
Efficiency: N/A  
Efficacy: 104.0 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				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°	1892	1892	1892
5°	1904	1896	1901
10°	1903	1895	1899
15°	1902	1893	1896
20°	1895	1888	1890
25°	1885	1877	1879
30°	1872	1863	1865
35°	1854	1848	1849
40°	1835	1826	1827
45°	1808	1800	1803
50°	1776	1763	1767
55°	1726	1711	1718
60°	1641	1634	1634
65°	1532	1529	1524
70°	1356	1364	1360
75°	1143	1133	1124
80°	821	807	801
85°	429	429	417

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1808 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	3.4
10°-20°	191.5	9.7
20°-30°	290.9	14.8
30°-40°	351.7	17.9
40°-50°	365.0	18.6
50°-60°	326.3	16.6
60°-70°	237.3	12.1
70°-80°	116.7	5.9
80°-90°	20.2	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°	549.0	27.9
0°-40°	900.6	45.8
0°-60°	1592.0	81.0
0°-90°	1966.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	705	697	702	699	704	67
15°	683	675	680	678	680	193
25°	635	628	632	631	633	293
35°	564	561	562	563	563	353
45°	475	473	473	474	474	366
55°	368	366	365	366	366	328
65°	241	242	240	240	239	237
75°	110	111	109	109	108	117
85°	14	14	14	14	14	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	703.1	703.1	703.1	703.1	703.1
2.5°	707.0	698.7	703.9	700.9	705.7
5°	704.8	696.6	701.8	699.2	703.9
7.5°	700.9	692.7	697.9	695.3	699.2
10°	696.6	687.9	693.5	690.9	694.8
12.5°	690.9	682.7	687.9	685.7	689.2
15°	682.7	674.8	679.6	677.9	680.5
17.5°	672.7	664.9	669.6	668.3	670.5
20°	661.8	654.4	659.2	657.9	660.1
22.5°	649.7	641.8	646.2	645.3	647.1
25°	634.9	627.9	632.3	631.0	632.7
27.5°	619.3	612.7	616.2	616.2	617.1
30°	602.3	596.2	599.7	599.7	600.2
32.5°	584.1	579.3	581.5	581.9	581.9
35°	564.5	560.6	562.4	562.8	562.8
37.5°	544.1	540.2	541.5	542.4	542.4
40°	522.4	518.9	519.8	520.7	520.2
42.5°	499.0	496.4	496.8	497.7	497.7
45°	475.1	472.9	472.9	473.8	473.8
47.5°	450.8	448.6	447.7	448.6	448.6
50°	424.3	422.1	421.2	422.1	422.1
52.5°	396.5	394.3	394.3	394.3	394.7
55°	367.8	365.7	364.8	365.7	366.1
57.5°	337.4	336.6	335.3	335.7	334.4
60°	304.9	304.9	303.6	304.4	303.6
62.5°	273.2	274.0	272.7	272.7	271.9
65°	240.6	241.5	240.1	240.1	239.3
67.5°	207.1	208.4	206.7	206.7	205.8
70°	172.4	175.0	173.3	173.7	172.8
72.5°	141.1	142.4	140.7	140.7	139.8
75°	109.9	110.7	109.0	109.4	108.1
77.5°	79.0	80.3	78.6	79.0	78.6
80°	53.0	53.4	52.1	52.5	51.7
82.5°	30.8	31.3	30.8	30.4	30.0
85°	13.9	14.3	13.9	13.9	13.5
87.5°	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)