

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: P973526

Luminaire Tested: FLR2-22-25-L930-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973526  
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-L930-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

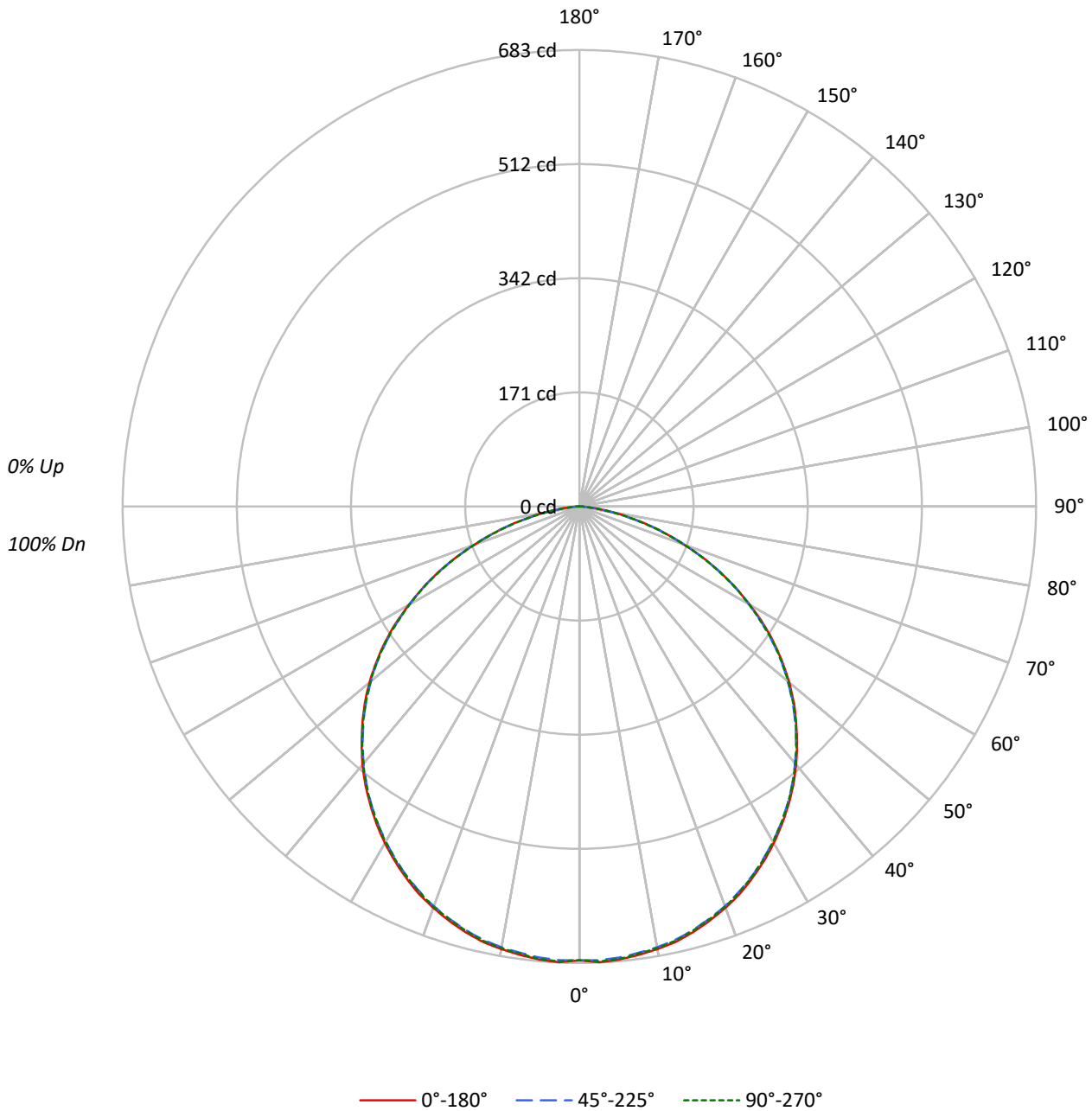
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1898.6 lumens  
Efficiency: N/A  
Efficacy: 100.5 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									
RC	80									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	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°	1827	1827	1827
5°	1838	1830	1836
10°	1838	1830	1833
15°	1836	1828	1831
20°	1830	1823	1825
25°	1820	1813	1814
30°	1807	1799	1801
35°	1791	1784	1785
40°	1772	1763	1765
45°	1746	1738	1741
50°	1715	1703	1706
55°	1666	1652	1658
60°	1584	1577	1577
65°	1479	1477	1472
70°	1310	1316	1313
75°	1103	1095	1085
80°	793	779	773
85°	414	414	401

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1746 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.3	3.4
10°-20°	184.9	9.7
20°-30°	280.9	14.8
30°-40°	339.6	17.9
40°-50°	352.5	18.6
50°-60°	315.1	16.6
60°-70°	229.1	12.1
70°-80°	112.7	5.9
80°-90°	19.6	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°	530.1	27.9
0°-40°	869.7	45.8
0°-60°	1537.3	81.0
0°-90°	1898.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1898.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	679	679	679	679	679	
5°	681	673	678	675	680	65
15°	659	652	656	655	657	186
25°	613	606	610	609	611	283
35°	545	541	543	544	544	341
45°	459	457	457	458	458	354
55°	355	353	352	353	354	317
65°	232	233	232	232	231	229
75°	106	107	105	106	104	113
85°	13	14	13	13	13	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	678.9	678.9	678.9	678.9	678.9
2.5°	682.7	674.7	679.7	676.8	681.4
5°	680.6	672.6	677.6	675.1	679.7
7.5°	676.8	668.8	673.9	671.3	675.1
10°	672.6	664.2	669.7	667.2	670.9
12.5°	667.2	659.2	664.2	662.1	665.5
15°	659.2	651.6	656.3	654.6	657.1
17.5°	649.5	642.0	646.6	645.4	647.4
20°	639.1	631.9	636.5	635.3	637.4
22.5°	627.3	619.8	624.0	623.1	624.8
25°	613.1	606.4	610.5	609.3	611.0
27.5°	598.0	591.7	595.0	595.0	595.9
30°	581.6	575.7	579.1	579.1	579.5
32.5°	564.0	559.4	561.5	561.9	561.9
35°	545.1	541.4	543.0	543.5	543.5
37.5°	525.4	521.6	522.9	523.7	523.7
40°	504.5	501.1	501.9	502.8	502.4
42.5°	481.8	479.3	479.7	480.6	480.6
45°	458.7	456.7	456.7	457.5	457.5
47.5°	435.3	433.2	432.3	433.2	433.2
50°	409.7	407.6	406.8	407.6	407.6
52.5°	382.8	380.8	380.8	380.8	381.2
55°	355.2	353.1	352.2	353.1	353.5
57.5°	325.8	325.0	323.7	324.1	322.9
60°	294.4	294.4	293.1	294.0	293.1
62.5°	263.8	264.6	263.3	263.3	262.5
65°	232.3	233.1	231.9	231.9	231.1
67.5°	200.0	201.3	199.6	199.6	198.8
70°	166.5	169.0	167.3	167.7	166.9
72.5°	136.3	137.5	135.9	135.9	135.0
75°	106.1	106.9	105.3	105.7	104.4
77.5°	76.3	77.6	75.9	76.3	75.9
80°	51.2	51.6	50.3	50.7	49.9
82.5°	29.8	30.2	29.8	29.4	28.9
85°	13.4	13.8	13.4	13.4	13.0
87.5°	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)