

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: P973590

Luminaire Tested: FLR2-22-25-L935-CP187

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973590  
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-L935-CP187  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

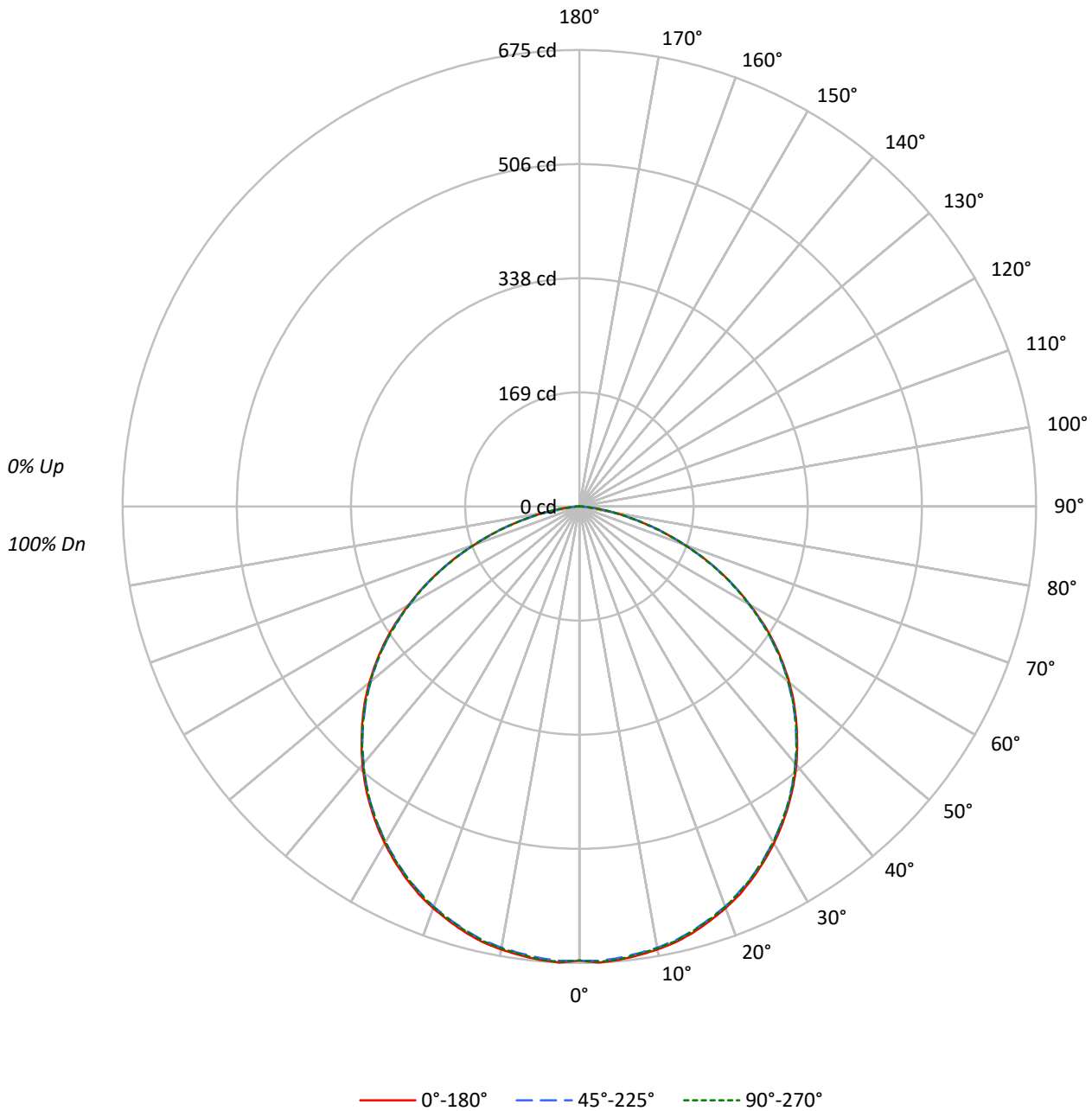
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1877.8 lumens  
Efficiency: N/A  
Efficacy: 99.4 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									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°	1807	1807	1807
5°	1818	1810	1816
10°	1818	1810	1813
15°	1816	1808	1811
20°	1810	1803	1805
25°	1801	1793	1794
30°	1788	1780	1781
35°	1771	1764	1766
40°	1753	1744	1746
45°	1727	1719	1722
50°	1696	1684	1688
55°	1648	1635	1640
60°	1567	1560	1560
65°	1463	1461	1455
70°	1296	1302	1299
75°	1091	1082	1074
80°	784	772	766
85°	411	411	398

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1727 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.6	3.4
10°-20°	182.9	9.7
20°-30°	277.9	14.8
30°-40°	335.9	17.9
40°-50°	348.6	18.6
50°-60°	311.7	16.6
60°-70°	226.6	12.1
70°-80°	111.4	5.9
80°-90°	19.3	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°	524.3	27.9
0°-40°	860.2	45.8
0°-60°	1520.4	81.0
0°-90°	1877.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1877.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	673	665	670	668	672	64
15°	652	644	649	647	650	184
25°	606	600	604	603	604	279
35°	539	535	537	538	538	337
45°	454	452	452	452	452	350
55°	351	349	348	349	350	313
65°	230	231	229	229	228	227
75°	105	106	104	104	103	111
85°	13	14	13	13	13	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	671.5	671.5	671.5	671.5	671.5
2.5°	675.2	667.3	672.3	669.4	674.0
5°	673.1	665.3	670.2	667.7	672.3
7.5°	669.4	661.5	666.5	664.0	667.7
10°	665.3	657.0	662.4	659.9	663.6
12.5°	659.9	652.0	657.0	654.9	658.2
15°	652.0	644.5	649.1	647.4	649.9
17.5°	642.4	635.0	639.5	638.3	640.4
20°	632.1	625.0	629.6	628.3	630.4
22.5°	620.5	613.0	617.1	616.3	618.0
25°	606.4	599.7	603.9	602.6	604.3
27.5°	591.4	585.2	588.5	588.5	589.4
30°	575.3	569.4	572.8	572.8	573.2
32.5°	557.8	553.3	555.3	555.8	555.8
35°	539.2	535.4	537.1	537.5	537.5
37.5°	519.7	515.9	517.2	518.0	518.0
40°	498.9	495.6	496.5	497.3	496.9
42.5°	476.5	474.1	474.5	475.3	475.3
45°	453.7	451.7	451.7	452.5	452.5
47.5°	430.5	428.4	427.6	428.4	428.4
50°	405.2	403.1	402.3	403.1	403.1
52.5°	378.7	376.6	376.6	376.6	377.0
55°	351.3	349.2	348.4	349.2	349.6
57.5°	322.3	321.4	320.2	320.6	319.4
60°	291.2	291.2	289.9	290.7	289.9
62.5°	260.9	261.7	260.5	260.5	259.6
65°	229.8	230.6	229.4	229.4	228.5
67.5°	197.8	199.1	197.4	197.4	196.6
70°	164.7	167.1	165.5	165.9	165.1
72.5°	134.8	136.0	134.4	134.4	133.5
75°	104.9	105.8	104.1	104.5	103.3
77.5°	75.5	76.7	75.1	75.5	75.1
80°	50.6	51.0	49.8	50.2	49.4
82.5°	29.4	29.9	29.4	29.0	28.6
85°	13.3	13.7	13.3	13.3	12.9
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)