

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: P973718

Luminaire Tested: FLR2-22-25-L950-CA125

Issue Date: 3/13/2025

**Test Information**

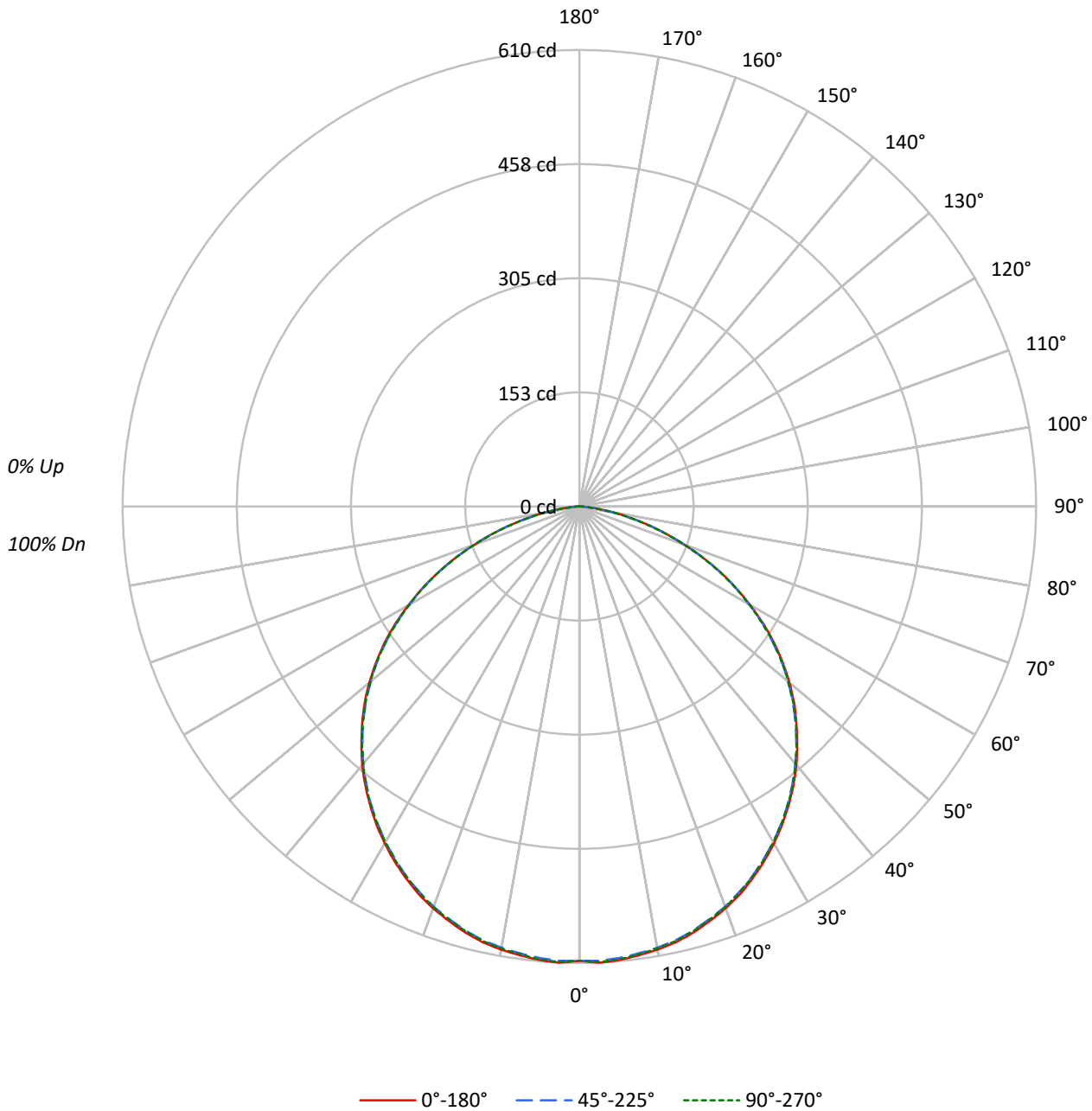
Test Method: LM-79-2019  
Report Number: P973718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-25-L950-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1697.4 lumens  
Efficiency: N/A  
Efficacy: 89.8 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°	1633	1633	1633
5°	1644	1636	1642
10°	1643	1636	1639
15°	1642	1634	1637
20°	1636	1630	1632
25°	1627	1621	1622
30°	1616	1609	1610
35°	1601	1595	1596
40°	1584	1577	1578
45°	1561	1554	1556
50°	1533	1523	1526
55°	1490	1477	1483
60°	1417	1411	1411
65°	1323	1320	1316
70°	1171	1177	1174
75°	987	978	971
80°	708	697	691
85°	371	371	358

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1561 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	3.4
10°-20°	165.3	9.7
20°-30°	251.2	14.8
30°-40°	303.6	17.9
40°-50°	315.1	18.6
50°-60°	281.7	16.6
60°-70°	204.8	12.1
70°-80°	100.7	5.9
80°-90°	17.5	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°	473.9	27.9
0°-40°	777.5	45.8
0°-60°	1374.4	81.0
0°-90°	1697.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1697.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	608	601	606	604	608	58
15°	589	583	587	585	588	166
25°	548	542	546	545	546	253
35°	487	484	486	486	486	305
45°	410	408	408	409	409	316
55°	318	316	315	316	316	283
65°	208	208	207	207	207	205
75°	95	96	94	94	93	101
85°	12	12	12	12	12	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	607.0	607.0	607.0	607.0	607.0
2.5°	610.3	603.2	607.7	605.1	609.2
5°	608.5	601.4	605.8	603.6	607.7
7.5°	605.1	598.0	602.5	600.2	603.6
10°	601.4	593.9	598.7	596.5	599.9
12.5°	596.5	589.4	593.9	592.0	595.0
15°	589.4	582.6	586.7	585.2	587.5
17.5°	580.7	574.0	578.1	577.0	578.9
20°	571.4	565.0	569.1	568.0	569.9
22.5°	560.9	554.1	557.9	557.1	558.6
25°	548.1	542.1	545.9	544.7	546.2
27.5°	534.6	529.0	532.0	532.0	532.7
30°	520.0	514.7	517.7	517.7	518.1
32.5°	504.2	500.1	502.0	502.4	502.4
35°	487.4	484.0	485.5	485.9	485.9
37.5°	469.8	466.4	467.5	468.3	468.3
40°	451.0	448.0	448.8	449.5	449.1
42.5°	430.8	428.5	428.9	429.6	429.6
45°	410.1	408.3	408.3	409.0	409.0
47.5°	389.2	387.3	386.5	387.3	387.3
50°	366.3	364.4	363.7	364.4	364.4
52.5°	342.3	340.4	340.4	340.4	340.8
55°	317.5	315.7	314.9	315.7	316.0
57.5°	291.3	290.6	289.4	289.8	288.7
60°	263.2	263.2	262.1	262.8	262.1
62.5°	235.8	236.6	235.4	235.4	234.7
65°	207.7	208.4	207.3	207.3	206.6
67.5°	178.8	180.0	178.5	178.5	177.7
70°	148.8	151.1	149.6	150.0	149.2
72.5°	121.8	123.0	121.5	121.5	120.7
75°	94.9	95.6	94.1	94.5	93.4
77.5°	68.2	69.4	67.9	68.2	67.9
80°	45.7	46.1	45.0	45.4	44.6
82.5°	26.6	27.0	26.6	26.2	25.9
85°	12.0	12.4	12.0	12.0	11.6
87.5°	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)