

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: P973713

Luminaire Tested: FLR2-22-20-L950-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973713  
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: FLR2-22-20-L950-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

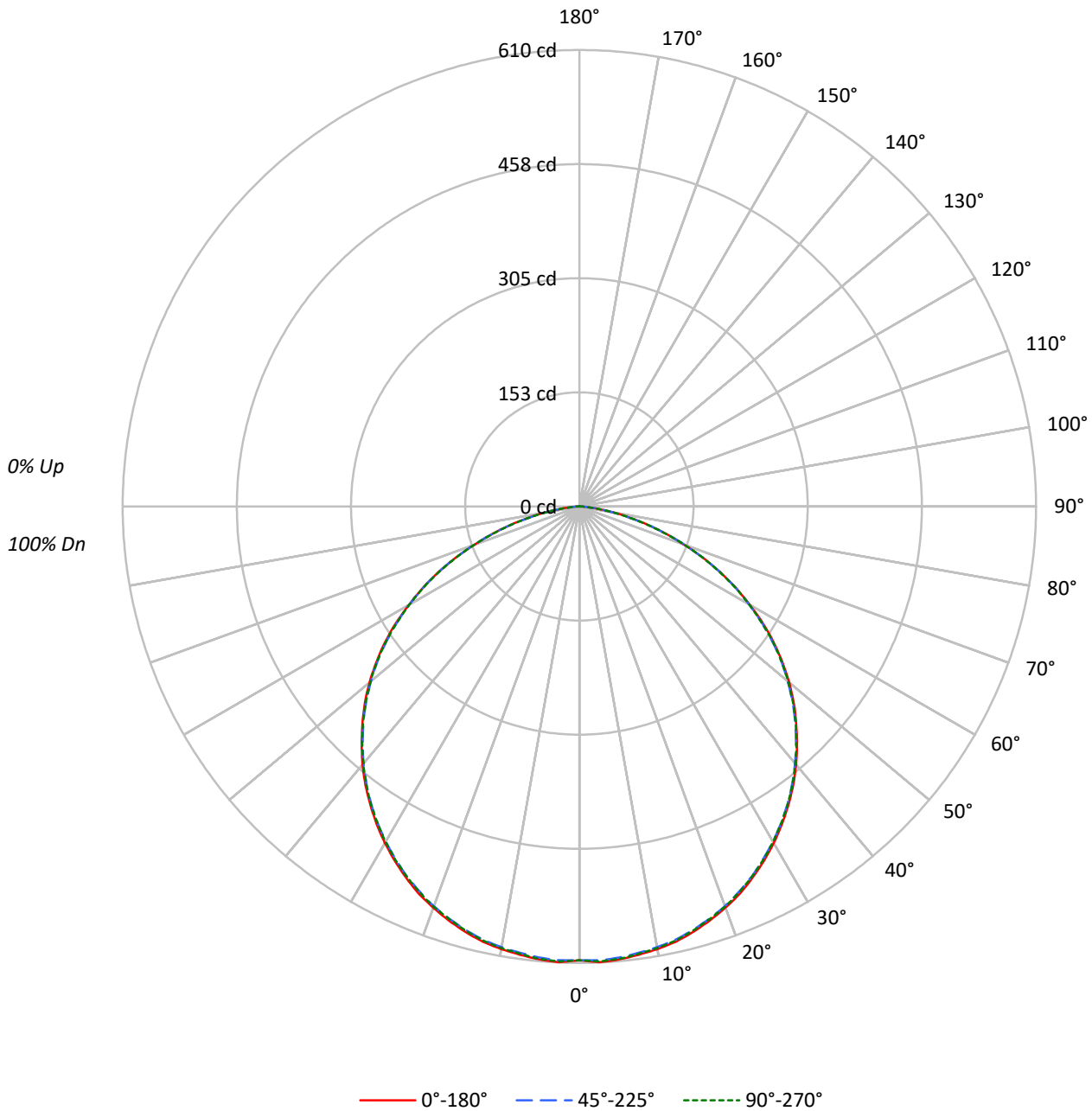
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1695.6 lumens  
Efficiency: N/A  
Efficacy: 112.3 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): 15.1  
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°	1632	1632	1632
5°	1642	1635	1640
10°	1641	1634	1637
15°	1640	1633	1635
20°	1634	1628	1630
25°	1626	1619	1620
30°	1614	1607	1608
35°	1600	1593	1595
40°	1583	1575	1576
45°	1559	1552	1555
50°	1532	1521	1524
55°	1488	1476	1481
60°	1415	1409	1409
65°	1321	1319	1314
70°	1170	1175	1173
75°	985	977	970
80°	708	696	691
85°	371	371	358

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1559 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	3.4
10°-20°	165.1	9.7
20°-30°	250.9	14.8
30°-40°	303.3	17.9
40°-50°	314.8	18.6
50°-60°	281.4	16.6
60°-70°	204.6	12.1
70°-80°	100.6	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°	473.4	27.9
0°-40°	776.7	45.8
0°-60°	1372.9	81.0
0°-90°	1695.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1695.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	608	601	605	603	607	58
15°	589	582	586	585	587	166
25°	548	542	545	544	546	252
35°	487	484	485	485	485	305
45°	410	408	408	409	409	316
55°	317	315	315	315	316	283
65°	208	208	207	207	206	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°	606.3	606.3	606.3	606.3	606.3
2.5°	609.7	602.6	607.1	604.4	608.6
5°	607.8	600.7	605.2	603.0	607.1
7.5°	604.4	597.3	601.8	599.6	603.0
10°	600.7	593.2	598.1	595.8	599.2
12.5°	595.8	588.7	593.2	591.3	594.3
15°	588.7	582.0	586.1	584.6	586.8
17.5°	580.1	573.4	577.5	576.4	578.2
20°	570.7	564.4	568.5	567.4	569.2
22.5°	560.3	553.5	557.3	556.5	558.0
25°	547.5	541.5	545.3	544.2	545.7
27.5°	534.0	528.4	531.4	531.4	532.2
30°	519.4	514.2	517.2	517.2	517.6
32.5°	503.7	499.6	501.5	501.8	501.8
35°	486.9	483.5	485.0	485.4	485.4
37.5°	469.3	465.9	467.0	467.8	467.8
40°	450.5	447.5	448.3	449.0	448.7
42.5°	430.3	428.1	428.4	429.2	429.2
45°	409.7	407.8	407.8	408.6	408.6
47.5°	388.7	386.9	386.1	386.9	386.9
50°	365.9	364.0	363.3	364.0	364.0
52.5°	341.9	340.0	340.0	340.0	340.4
55°	317.2	315.3	314.6	315.3	315.7
57.5°	291.0	290.2	289.1	289.5	288.4
60°	262.9	262.9	261.8	262.5	261.8
62.5°	235.6	236.3	235.2	235.2	234.4
65°	207.5	208.2	207.1	207.1	206.4
67.5°	178.6	179.8	178.3	178.3	177.5
70°	148.7	150.9	149.4	149.8	149.1
72.5°	121.7	122.8	121.3	121.3	120.6
75°	94.7	95.5	94.0	94.4	93.3
77.5°	68.2	69.3	67.8	68.2	67.8
80°	45.7	46.1	44.9	45.3	44.6
82.5°	26.6	27.0	26.6	26.2	25.8
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)