

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: P973705

Luminaire Tested: FLR2-22-20-L950-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973705  
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-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

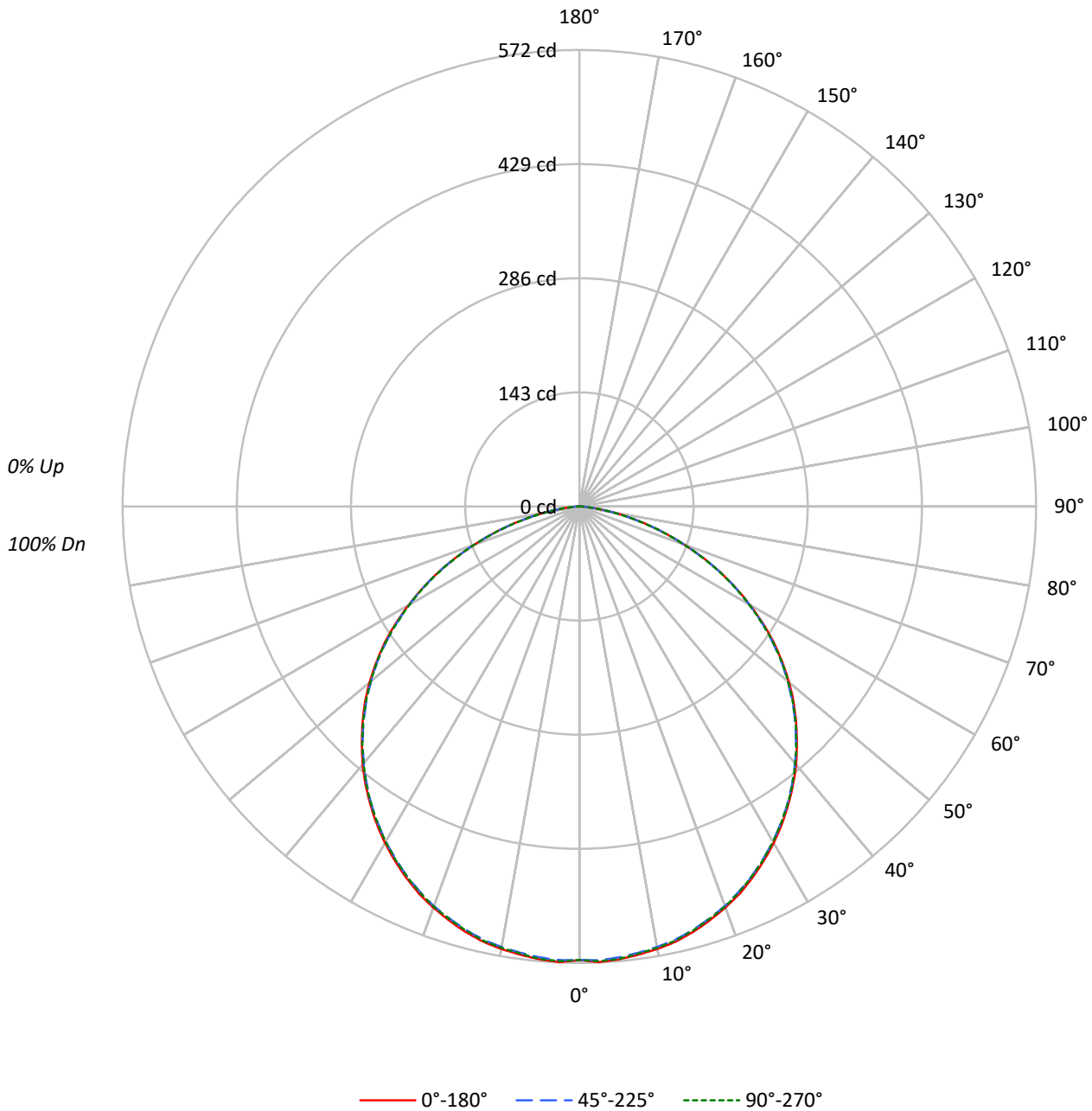
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1589.3 lumens  
Efficiency: N/A  
Efficacy: 105.3 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				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°	1529	1529	1529
5°	1539	1532	1537
10°	1538	1532	1535
15°	1537	1530	1532
20°	1532	1526	1528
25°	1524	1518	1518
30°	1513	1506	1507
35°	1499	1493	1494
40°	1483	1476	1477
45°	1461	1455	1458
50°	1436	1425	1428
55°	1395	1384	1388
60°	1326	1321	1321
65°	1238	1236	1231
70°	1097	1102	1099
75°	923	916	909
80°	663	652	648
85°	346	346	337

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1461 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.8	3.4
10°-20°	154.8	9.7
20°-30°	235.2	14.8
30°-40°	284.3	17.9
40°-50°	295.1	18.6
50°-60°	263.8	16.6
60°-70°	191.8	12.1
70°-80°	94.3	5.9
80°-90°	16.4	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°	443.7	27.9
0°-40°	728.0	45.8
0°-60°	1286.8	81.0
0°-90°	1589.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	570	563	567	565	569	54
15°	552	546	549	548	550	156
25°	513	508	511	510	511	237
35°	456	453	455	455	455	285
45°	384	382	382	383	383	296
55°	297	296	295	296	296	265
65°	194	195	194	194	193	192
75°	89	90	88	88	87	94
85°	11	12	11	11	11	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	568.3	568.3	568.3	568.3	568.3
2.5°	571.5	564.8	569.0	566.5	570.4
5°	569.7	563.0	567.2	565.1	569.0
7.5°	566.5	559.9	564.1	562.0	565.1
10°	563.0	556.0	560.6	558.5	561.6
12.5°	558.5	551.8	556.0	554.3	557.1
15°	551.8	545.5	549.3	547.9	550.0
17.5°	543.7	537.4	541.3	540.2	542.0
20°	534.9	529.0	532.8	531.8	533.5
22.5°	525.1	518.8	522.3	521.6	523.0
25°	513.2	507.6	511.1	510.0	511.4
27.5°	500.5	495.3	498.1	498.1	498.8
30°	486.9	481.9	484.8	484.8	485.1
32.5°	472.1	468.3	470.0	470.4	470.4
35°	456.3	453.2	454.6	454.9	454.9
37.5°	439.8	436.7	437.7	438.4	438.4
40°	422.3	419.5	420.2	420.9	420.5
42.5°	403.3	401.2	401.6	402.3	402.3
45°	384.0	382.3	382.3	383.0	383.0
47.5°	364.4	362.6	361.9	362.6	362.6
50°	342.9	341.2	340.5	341.2	341.2
52.5°	320.5	318.7	318.7	318.7	319.1
55°	297.3	295.6	294.9	295.6	295.9
57.5°	272.7	272.0	271.0	271.3	270.3
60°	246.4	246.4	245.4	246.1	245.4
62.5°	220.8	221.5	220.4	220.4	219.7
65°	194.5	195.2	194.1	194.1	193.4
67.5°	167.4	168.5	167.1	167.1	166.4
70°	139.4	141.5	140.1	140.4	139.7
72.5°	114.1	115.1	113.7	113.7	113.0
75°	88.8	89.5	88.1	88.5	87.4
77.5°	63.9	64.9	63.5	63.9	63.5
80°	42.8	43.2	42.1	42.5	41.8
82.5°	24.9	25.3	24.9	24.6	24.2
85°	11.2	11.6	11.2	11.2	10.9
87.5°	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)