

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: P973581

Luminaire Tested: FLR2-22-20-L935-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973581  
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-L935-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

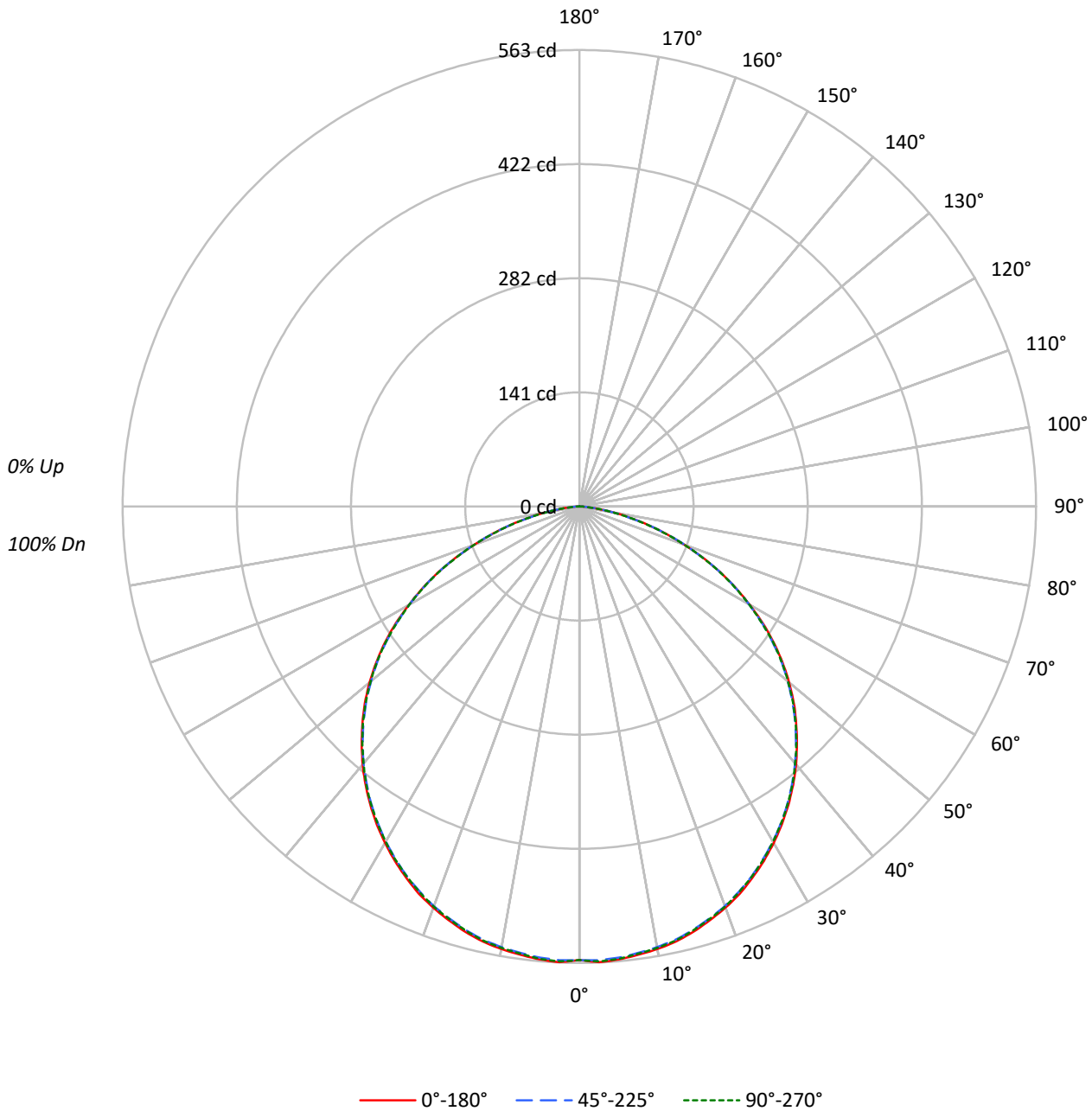
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1564.7 lumens  
Efficiency: N/A  
Efficacy: 103.6 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°	1506	1506	1506
5°	1515	1509	1513
10°	1515	1508	1511
15°	1514	1507	1509
20°	1508	1502	1504
25°	1500	1494	1495
30°	1489	1483	1484
35°	1476	1470	1471
40°	1460	1453	1454
45°	1439	1432	1435
50°	1413	1403	1406
55°	1373	1362	1367
60°	1306	1300	1300
65°	1219	1217	1212
70°	1079	1085	1082
75°	909	901	894
80°	654	643	637
85°	343	343	330

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1439 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.0	3.4
10°-20°	152.4	9.7
20°-30°	231.5	14.8
30°-40°	279.8	17.9
40°-50°	290.5	18.6
50°-60°	259.7	16.6
60°-70°	188.8	12.1
70°-80°	92.9	5.9
80°-90°	16.1	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°	436.9	27.9
0°-40°	716.7	45.8
0°-60°	1266.9	81.0
0°-90°	1564.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1564.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	561	554	558	556	560	53
15°	543	537	541	540	542	153
25°	505	500	503	502	504	233
35°	449	446	448	448	448	281
45°	378	376	376	377	377	292
55°	293	291	290	291	291	261
65°	192	192	191	191	190	189
75°	87	88	87	87	86	93
85°	11	11	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°	559.5	559.5	559.5	559.5	559.5
2.5°	562.6	556.0	560.2	557.8	561.6
5°	560.9	554.3	558.5	556.4	560.2
7.5°	557.8	551.2	555.4	553.3	556.4
10°	554.3	547.4	551.9	549.8	552.9
12.5°	549.8	543.3	547.4	545.7	548.4
15°	543.3	537.0	540.8	539.5	541.5
17.5°	535.3	529.1	532.9	531.9	533.6
20°	526.7	520.8	524.6	523.6	525.3
22.5°	517.0	510.8	514.2	513.5	514.9
25°	505.2	499.7	503.2	502.1	503.5
27.5°	492.8	487.6	490.4	490.4	491.1
30°	479.3	474.5	477.2	477.2	477.6
32.5°	464.8	461.0	462.7	463.1	463.1
35°	449.3	446.1	447.5	447.9	447.9
37.5°	433.0	429.9	430.9	431.6	431.6
40°	415.7	413.0	413.7	414.4	414.0
42.5°	397.1	395.0	395.3	396.0	396.0
45°	378.1	376.3	376.3	377.0	377.0
47.5°	358.7	357.0	356.3	357.0	357.0
50°	337.6	335.9	335.2	335.9	335.9
52.5°	315.5	313.8	313.8	313.8	314.1
55°	292.7	291.0	290.3	291.0	291.3
57.5°	268.5	267.8	266.8	267.1	266.1
60°	242.6	242.6	241.6	242.3	241.6
62.5°	217.4	218.1	217.0	217.0	216.3
65°	191.5	192.1	191.1	191.1	190.4
67.5°	164.8	165.9	164.5	164.5	163.8
70°	137.2	139.3	137.9	138.2	137.5
72.5°	112.3	113.4	112.0	112.0	111.3
75°	87.4	88.1	86.7	87.1	86.0
77.5°	62.9	63.9	62.6	62.9	62.6
80°	42.2	42.5	41.5	41.8	41.1
82.5°	24.5	24.9	24.5	24.2	23.8
85°	11.1	11.4	11.1	11.1	10.7
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)