

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: P974476

Luminaire Tested: FLR2-24-40-L950-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974476  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-24-40-L950-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-40-L950-CP250  
Ballast/Driver: -

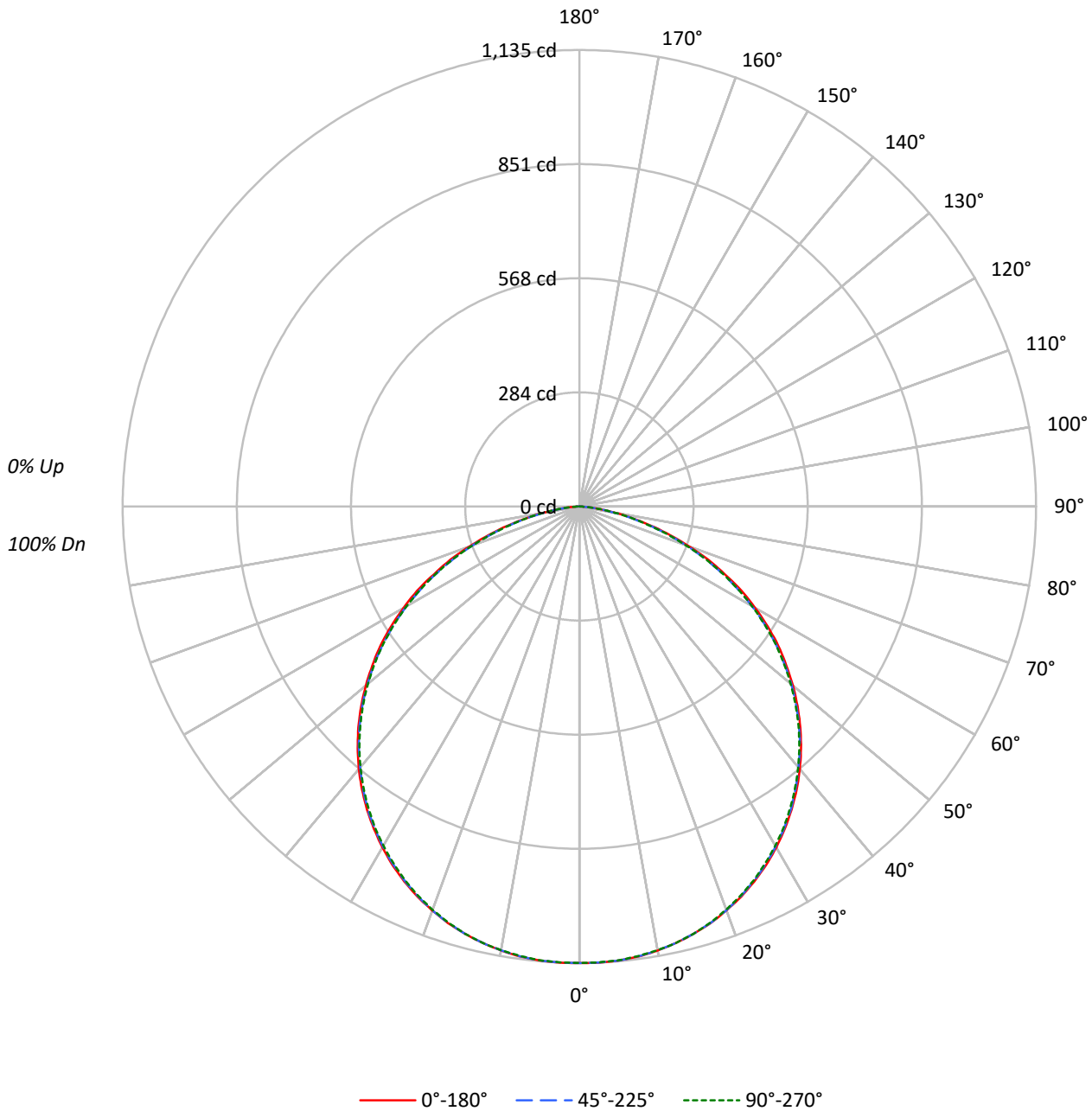
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3208.9 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.3  
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1528	1528	1528
5°	1531	1531	1530
10°	1532	1531	1531
15°	1532	1532	1532
20°	1531	1530	1528
25°	1528	1525	1522
30°	1521	1517	1513
35°	1511	1507	1502
40°	1498	1488	1486
45°	1478	1470	1465
50°	1450	1440	1435
55°	1416	1396	1394
60°	1357	1333	1333
65°	1270	1240	1244
70°	1143	1107	1104
75°	959	921	917
80°	700	666	694
85°	397	364	371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1478 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	3.4
10°-20°	310.5	9.7
20°-30°	473.4	14.8
30°-40°	573.5	17.9
40°-50°	595.7	18.6
50°-60°	532.9	16.6
60°-70°	388.4	12.1
70°-80°	192.3	6.0
80°-90°	34.4	1.1
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°	891.6	27.8
0°-40°	1465.1	45.7
0°-60°	2593.7	80.8
0°-90°	3208.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3208.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1133	1134	1133	1133	1132	108
15°	1100	1100	1100	1100	1100	311
25°	1029	1028	1027	1027	1025	474
35°	920	919	917	916	914	575
45°	777	775	772	771	770	599
55°	604	599	595	595	594	538
65°	399	396	390	391	391	395
75°	184	182	177	180	176	197
85°	26	24	24	24	24	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1135.4	1135.4	1135.4	1135.4	1135.4
2.5°	1135.4	1135.0	1135.0	1135.4	1134.5
5°	1133.3	1133.7	1133.3	1133.3	1132.5
7.5°	1128.8	1128.4	1128.0	1128.4	1127.2
10°	1121.1	1121.1	1120.7	1121.1	1120.3
12.5°	1111.7	1111.7	1111.7	1112.1	1111.7
15°	1099.9	1099.5	1099.5	1100.3	1099.5
17.5°	1086.1	1085.7	1085.7	1085.3	1084.4
20°	1069.0	1069.0	1068.6	1068.1	1066.9
22.5°	1050.6	1050.2	1049.0	1049.0	1047.4
25°	1029.0	1027.8	1027.0	1026.6	1025.4
27.5°	1005.4	1003.8	1002.6	1001.7	1000.5
30°	978.9	977.3	976.1	974.9	974.0
32.5°	950.4	949.6	947.6	947.2	945.5
35°	919.9	918.6	917.4	915.8	914.2
37.5°	887.3	886.0	883.2	882.4	881.2
40°	852.6	851.0	847.3	847.3	846.1
42.5°	815.6	813.9	811.5	809.9	809.1
45°	776.9	775.2	772.4	770.8	769.9
47.5°	735.7	734.5	731.2	730.0	728.8
50°	692.9	691.3	687.7	686.8	685.6
52.5°	648.1	647.3	642.4	642.0	640.8
55°	603.7	599.3	595.2	595.2	594.4
57.5°	554.8	551.6	546.3	546.3	545.5
60°	504.3	501.5	495.4	496.2	495.4
62.5°	455.0	448.9	443.2	445.7	443.6
65°	398.8	395.6	389.5	391.1	390.7
67.5°	347.5	341.4	335.7	338.9	337.3
70°	290.5	287.2	281.5	284.8	280.7
72.5°	236.7	233.8	228.1	231.8	227.7
75°	184.5	181.7	177.2	180.5	176.4
77.5°	135.2	133.2	129.1	132.4	133.2
80°	90.4	88.0	86.0	88.8	89.6
82.5°	53.0	51.3	50.5	50.9	53.0
85°	25.7	23.6	23.6	24.0	24.0
87.5°	6.9	6.1	6.9	7.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)