

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: P974500

Luminaire Tested: FLR2-24-40-L950-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974500  
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-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-40-L950-CA125  
Ballast/Driver: -

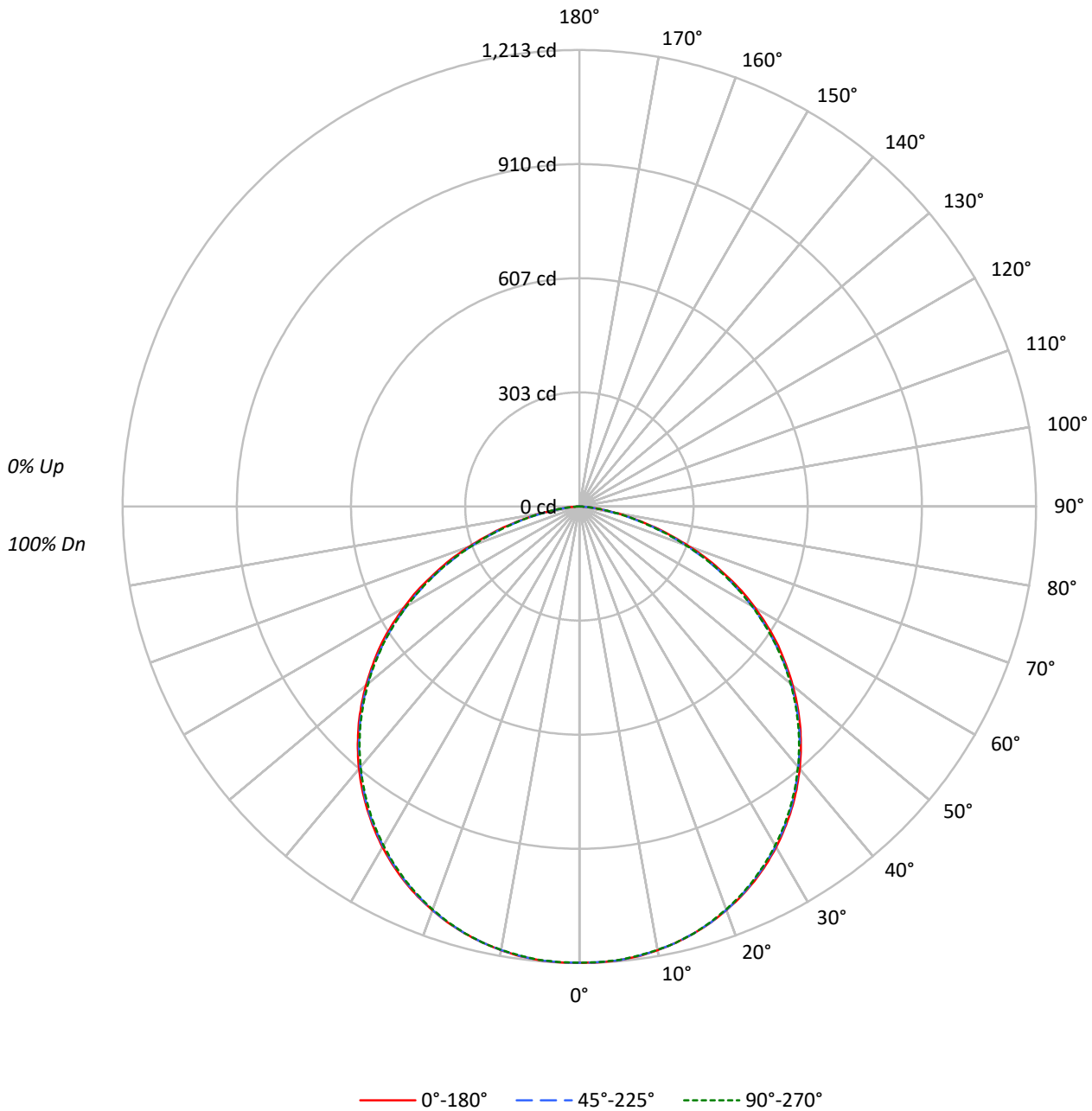
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3427.3 lumens  
Efficiency: N/A  
Efficacy: 113.1 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°	1632	1632	1632
5°	1635	1635	1634
10°	1636	1635	1635
15°	1636	1636	1636
20°	1635	1634	1632
25°	1632	1628	1626
30°	1624	1620	1616
35°	1614	1610	1604
40°	1600	1590	1587
45°	1579	1570	1565
50°	1549	1537	1533
55°	1513	1491	1489
60°	1450	1424	1424
65°	1356	1324	1329
70°	1220	1183	1179
75°	1025	984	979
80°	748	711	742
85°	423	389	397

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1579 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	3.4
10°-20°	331.6	9.7
20°-30°	505.6	14.8
30°-40°	612.5	17.9
40°-50°	636.3	18.6
50°-60°	569.2	16.6
60°-70°	414.8	12.1
70°-80°	205.5	6.0
80°-90°	36.7	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°	952.3	27.8
0°-40°	1564.8	45.7
0°-60°	2770.3	80.8
0°-90°	3427.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3427.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1210	1211	1210	1210	1210	115
15°	1175	1174	1174	1175	1174	332
25°	1099	1098	1097	1096	1095	507
35°	982	981	980	978	976	615
45°	830	828	825	823	822	639
55°	645	640	636	636	635	574
65°	426	422	416	418	417	422
75°	197	194	189	193	188	210
85°	27	25	25	26	26	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1212.6	1212.6	1212.6	1212.6	1212.6
2.5°	1212.6	1212.2	1212.2	1212.6	1211.8
5°	1210.5	1210.9	1210.5	1210.5	1209.6
7.5°	1205.7	1205.2	1204.8	1205.2	1203.9
10°	1197.4	1197.4	1197.0	1197.4	1196.5
12.5°	1187.4	1187.4	1187.4	1187.8	1187.4
15°	1174.8	1174.3	1174.3	1175.2	1174.3
17.5°	1160.0	1159.5	1159.5	1159.1	1158.2
20°	1141.7	1141.7	1141.3	1140.8	1139.5
22.5°	1122.1	1121.7	1120.4	1120.4	1118.7
25°	1099.1	1097.8	1096.9	1096.5	1095.2
27.5°	1073.8	1072.1	1070.8	1069.9	1068.6
30°	1045.6	1043.8	1042.5	1041.2	1040.3
32.5°	1015.1	1014.2	1012.0	1011.6	1009.9
35°	982.5	981.2	979.9	978.1	976.4
37.5°	947.7	946.3	943.3	942.4	941.1
40°	910.7	908.9	905.0	905.0	903.7
42.5°	871.1	869.3	866.7	865.0	864.1
45°	829.7	828.0	825.0	823.2	822.3
47.5°	785.8	784.5	781.0	779.7	778.4
50°	740.1	738.4	734.5	733.6	732.3
52.5°	692.2	691.4	686.2	685.7	684.4
55°	644.8	640.0	635.7	635.7	634.8
57.5°	592.6	589.1	583.5	583.5	582.6
60°	538.7	535.6	529.1	530.0	529.1
62.5°	486.0	479.5	473.4	476.0	473.8
65°	426.0	422.5	416.0	417.7	417.3
67.5°	371.1	364.6	358.5	362.0	360.3
70°	310.2	306.7	300.7	304.1	299.8
72.5°	252.8	249.7	243.7	247.6	243.2
75°	197.1	194.1	189.3	192.8	188.4
77.5°	144.5	142.3	137.9	141.4	142.3
80°	96.6	94.0	91.8	94.9	95.7
82.5°	56.6	54.8	54.0	54.4	56.6
85°	27.4	25.2	25.2	25.7	25.7
87.5°	7.4	6.5	7.4	7.8	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)