

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: P974468

Luminaire Tested: FLR2-24-40-L950-CP187

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974468  
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-CP187  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-40-L950-CP187  
Ballast/Driver: -

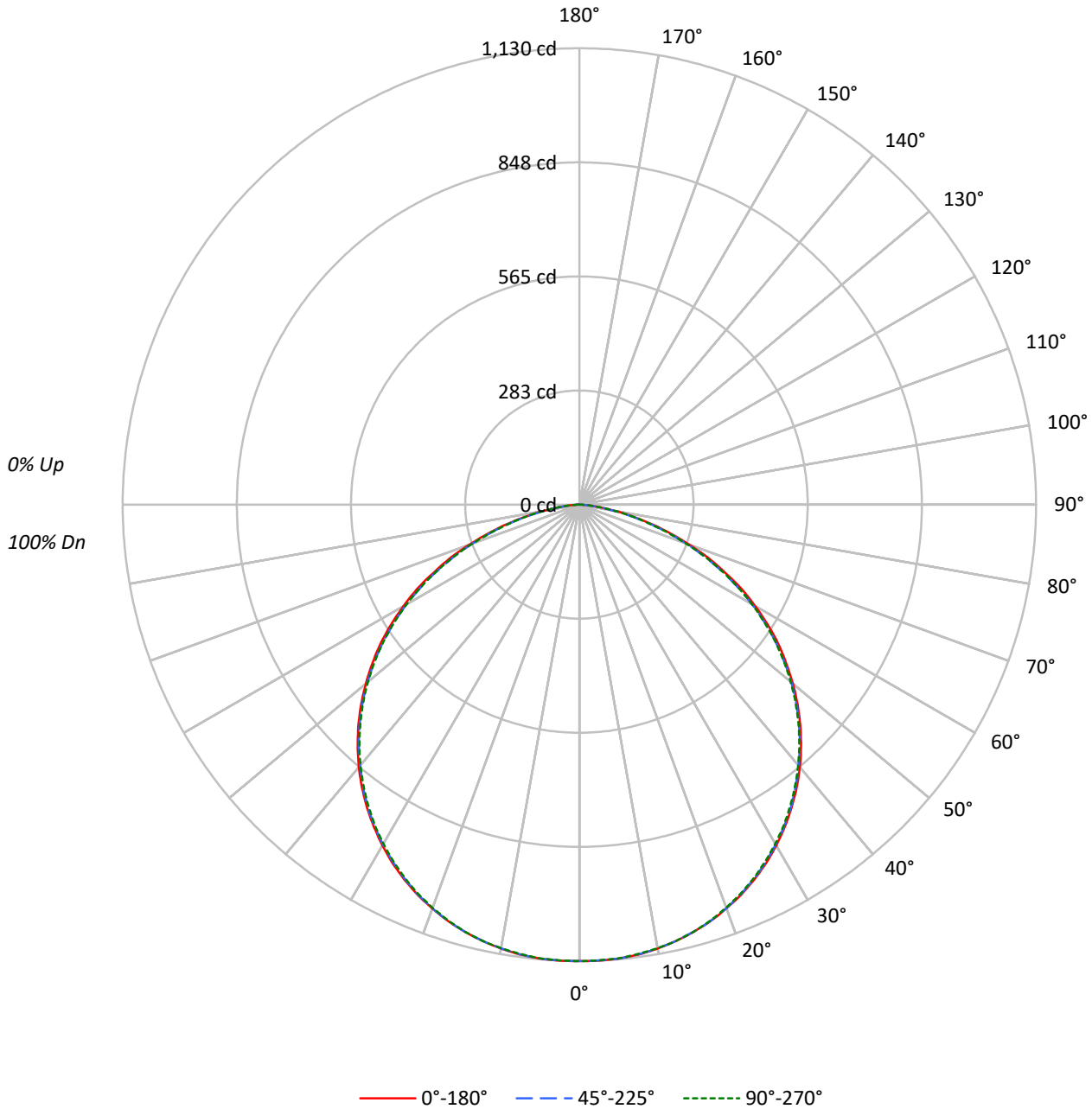
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3194.7 lumens  
Efficiency: N/A  
Efficacy: 105.4 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										
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38						38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	38	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	39	33	29	27						27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25						25														

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

	0°	45°	90°
0°	1521	1521	1521
5°	1524	1524	1523
10°	1525	1524	1524
15°	1525	1525	1525
20°	1524	1523	1521
25°	1521	1518	1515
30°	1514	1510	1507
35°	1504	1500	1495
40°	1491	1482	1480
45°	1472	1463	1459
50°	1444	1433	1429
55°	1410	1390	1388
60°	1351	1327	1327
65°	1264	1234	1238
70°	1138	1103	1099
75°	955	917	913
80°	697	663	691
85°	395	363	369

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1472 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.3	3.4
10°-20°	309.1	9.7
20°-30°	471.3	14.8
30°-40°	571.0	17.9
40°-50°	593.1	18.6
50°-60°	530.6	16.6
60°-70°	386.7	12.1
70°-80°	191.5	6.0
80°-90°	34.2	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°	887.7	27.8
0°-40°	1458.6	45.7
0°-60°	2582.3	80.8
0°-90°	3194.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3194.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1128	1129	1128	1128	1128	107
15°	1095	1095	1095	1096	1095	309
25°	1024	1023	1022	1022	1021	472
35°	916	915	913	912	910	573
45°	773	772	769	767	766	596
55°	601	597	593	593	592	536
65°	397	394	388	389	389	394
75°	184	181	176	180	176	196
85°	26	24	24	24	24	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1130.4	1130.4	1130.4	1130.4	1130.4
2.5°	1130.4	1129.9	1129.9	1130.4	1129.5
5°	1128.3	1128.7	1128.3	1128.3	1127.5
7.5°	1123.9	1123.5	1123.1	1123.5	1122.2
10°	1116.2	1116.2	1115.8	1116.2	1115.3
12.5°	1106.8	1106.8	1106.8	1107.2	1106.8
15°	1095.1	1094.7	1094.7	1095.5	1094.7
17.5°	1081.3	1080.9	1080.9	1080.5	1079.7
20°	1064.2	1064.2	1063.8	1063.4	1062.2
22.5°	1046.0	1045.6	1044.4	1044.4	1042.7
25°	1024.5	1023.3	1022.5	1022.1	1020.8
27.5°	1001.0	999.4	998.1	997.3	996.1
30°	974.6	973.0	971.8	970.6	969.7
32.5°	946.2	945.4	943.4	943.0	941.4
35°	915.8	914.6	913.4	911.7	910.1
37.5°	883.4	882.1	879.3	878.5	877.3
40°	848.9	847.3	843.6	843.6	842.4
42.5°	812.0	810.4	807.9	806.3	805.5
45°	773.4	771.8	769.0	767.4	766.5
47.5°	732.5	731.3	728.0	726.8	725.6
50°	689.9	688.3	684.6	683.8	682.6
52.5°	645.3	644.5	639.6	639.2	638.0
55°	601.1	596.6	592.6	592.6	591.7
57.5°	552.4	549.2	543.9	543.9	543.1
60°	502.1	499.3	493.2	494.0	493.2
62.5°	453.0	447.0	441.3	443.7	441.7
65°	397.1	393.8	387.7	389.4	389.0
67.5°	346.0	339.9	334.2	337.4	335.8
70°	289.2	285.9	280.3	283.5	279.4
72.5°	235.6	232.8	227.1	230.8	226.7
75°	183.7	180.9	176.4	179.7	175.6
77.5°	134.7	132.6	128.6	131.8	132.6
80°	90.0	87.6	85.6	88.4	89.2
82.5°	52.7	51.1	50.3	50.7	52.7
85°	25.6	23.5	23.5	23.9	23.9
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)