

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: P974140

Luminaire Tested: FLR2-24-40-L930-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974140  
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-L930-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-40-L930-CP250  
Ballast/Driver: -

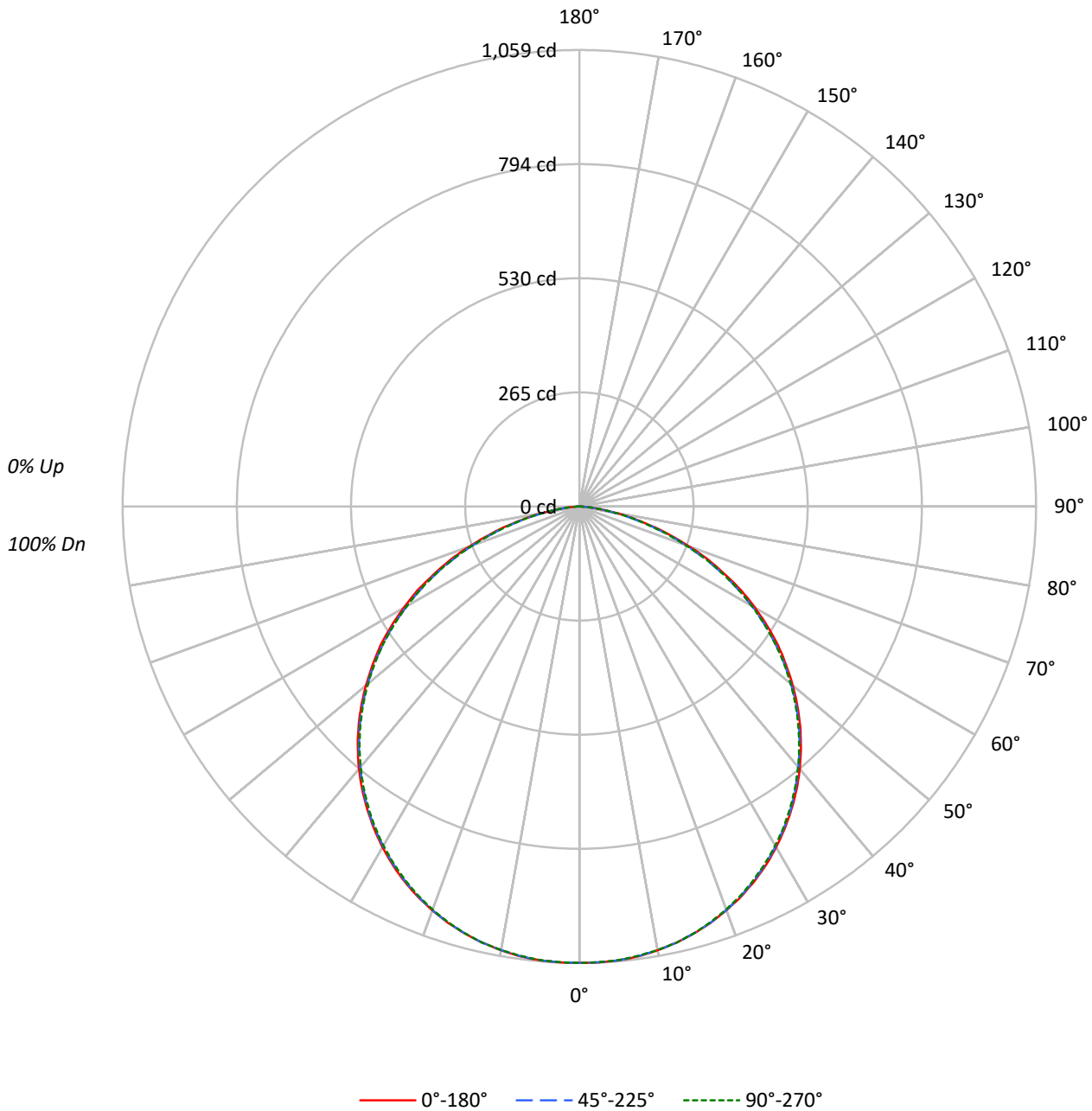
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2992.6 lumens  
Efficiency: N/A  
Efficacy: 98.8 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	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	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°	1425	1425	1425
5°	1427	1427	1427
10°	1428	1428	1427
15°	1429	1428	1428
20°	1427	1427	1425
25°	1425	1422	1420
30°	1418	1414	1411
35°	1409	1405	1400
40°	1397	1388	1386
45°	1379	1371	1366
50°	1353	1342	1338
55°	1321	1302	1300
60°	1266	1243	1243
65°	1184	1156	1160
70°	1066	1033	1030
75°	895	859	855
80°	653	621	648
85°	369	340	346

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1379 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.5	3.4
10°-20°	289.5	9.7
20°-30°	441.4	14.8
30°-40°	534.8	17.9
40°-50°	555.6	18.6
50°-60°	497.0	16.6
60°-70°	362.2	12.1
70°-80°	179.4	6.0
80°-90°	32.1	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°	831.5	27.8
0°-40°	1366.3	45.7
0°-60°	2418.9	80.8
0°-90°	2992.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1057	1057	1057	1057	1056	101
15°	1026	1025	1025	1026	1025	290
25°	960	958	958	957	956	442
35°	858	857	856	854	852	537
45°	724	723	720	719	718	558
55°	563	559	555	555	554	502
65°	372	369	363	365	364	369
75°	172	169	165	168	164	183
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1058.8	1058.8	1058.8	1058.8	1058.8
2.5°	1058.8	1058.4	1058.4	1058.8	1058.1
5°	1056.9	1057.3	1056.9	1056.9	1056.2
7.5°	1052.7	1052.4	1052.0	1052.4	1051.2
10°	1045.5	1045.5	1045.1	1045.5	1044.8
12.5°	1036.8	1036.8	1036.8	1037.2	1036.8
15°	1025.8	1025.4	1025.4	1026.1	1025.4
17.5°	1012.8	1012.5	1012.5	1012.1	1011.3
20°	996.9	996.9	996.5	996.1	995.0
22.5°	979.8	979.4	978.3	978.3	976.8
25°	959.7	958.5	957.8	957.4	956.2
27.5°	937.6	936.1	935.0	934.2	933.1
30°	912.9	911.4	910.3	909.1	908.4
32.5°	886.3	885.6	883.7	883.3	881.8
35°	857.8	856.7	855.6	854.0	852.5
37.5°	827.5	826.3	823.7	822.9	821.8
40°	795.2	793.6	790.2	790.2	789.1
42.5°	760.6	759.1	756.8	755.3	754.5
45°	724.5	723.0	720.3	718.8	718.0
47.5°	686.1	685.0	681.9	680.8	679.7
50°	646.2	644.7	641.3	640.5	639.4
52.5°	604.4	603.7	599.1	598.7	597.6
55°	563.0	558.9	555.1	555.1	554.3
57.5°	517.4	514.4	509.5	509.5	508.7
60°	470.3	467.7	462.0	462.7	462.0
62.5°	424.4	418.7	413.3	415.6	413.7
65°	371.9	368.9	363.2	364.7	364.3
67.5°	324.1	318.4	313.0	316.1	314.6
70°	270.9	267.8	262.5	265.6	261.8
72.5°	220.7	218.1	212.8	216.2	212.4
75°	172.1	169.4	165.3	168.3	164.5
77.5°	126.1	124.2	120.4	123.5	124.2
80°	84.3	82.1	80.2	82.8	83.6
82.5°	49.4	47.9	47.1	47.5	49.4
85°	23.9	22.0	22.0	22.4	22.4
87.5°	6.5	5.7	6.5	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)