

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: P974484

Luminaire Tested: FLR2-24-40-L950-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974484  
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-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-40-L950-CP375  
Ballast/Driver: -

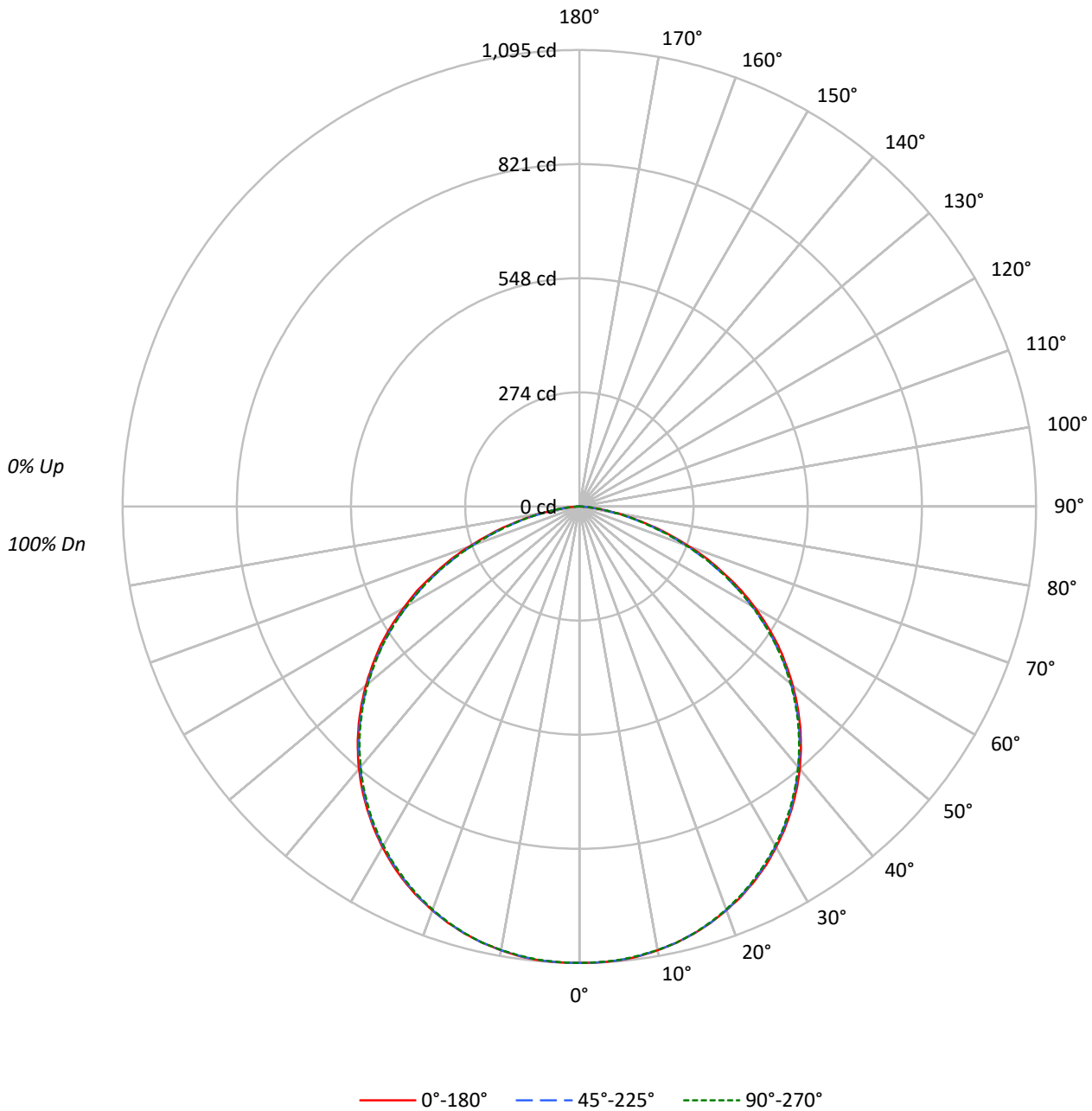
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3094.5 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

TEST NUMBER: P974484  
CATALOG NUMBER: FLR2-24-40-L950-CP375

### Luminous Intensity Polar Plot





TEST NUMBER: P974484  
 CATALOG NUMBER: FLR2-24-40-L950-CP375

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	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°	1473	1473	1473
5°	1476	1476	1475
10°	1477	1477	1476
15°	1478	1477	1477
20°	1476	1475	1473
25°	1473	1470	1468
30°	1467	1462	1459
35°	1457	1453	1448
40°	1444	1435	1433
45°	1426	1417	1413
50°	1399	1388	1384
55°	1366	1346	1345
60°	1309	1285	1285
65°	1224	1196	1199
70°	1102	1068	1065
75°	925	888	884
80°	676	642	669
85°	381	352	358

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1426 cd/sqm



TEST NUMBER: P974484  
 CATALOG NUMBER: FLR2-24-40-L950-CP375

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.9	3.4
10°-20°	299.4	9.7
20°-30°	456.5	14.8
30°-40°	553.1	17.9
40°-50°	574.5	18.6
50°-60°	513.9	16.6
60°-70°	374.6	12.1
70°-80°	185.5	6.0
80°-90°	33.2	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°	859.8	27.8
0°-40°	1412.9	45.7
0°-60°	2501.2	80.8
0°-90°	3094.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3094.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1093	1093	1093	1093	1092	104
15°	1061	1060	1060	1061	1060	299
25°	992	991	990	990	989	457
35°	887	886	885	883	882	555
45°	749	748	745	743	742	577
55°	582	578	574	574	573	519
65°	385	382	376	377	377	381
75°	178	175	171	174	170	190
85°	25	23	23	23	23	34
90°	0	0	0	0	0	



TEST NUMBER: P974484  
 CATALOG NUMBER: FLR2-24-40-L950-CP375

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1094.9	1094.9	1094.9	1094.9	1094.9
2.5°	1094.9	1094.5	1094.5	1094.9	1094.1
5°	1092.9	1093.3	1092.9	1092.9	1092.1
7.5°	1088.6	1088.2	1087.8	1088.2	1087.0
10°	1081.1	1081.1	1080.7	1081.1	1080.3
12.5°	1072.1	1072.1	1072.1	1072.5	1072.1
15°	1060.7	1060.3	1060.3	1061.1	1060.3
17.5°	1047.3	1046.9	1046.9	1046.6	1045.8
20°	1030.8	1030.8	1030.4	1030.1	1028.9
22.5°	1013.2	1012.8	1011.6	1011.6	1010.0
25°	992.3	991.2	990.4	990.0	988.8
27.5°	969.6	968.0	966.8	966.0	964.8
30°	944.0	942.4	941.3	940.1	939.3
32.5°	916.5	915.7	913.8	913.4	911.8
35°	887.1	885.9	884.7	883.1	881.6
37.5°	855.6	854.4	851.7	850.9	849.7
40°	822.2	820.7	817.1	817.1	816.0
42.5°	786.5	784.9	782.6	781.0	780.2
45°	749.2	747.6	744.8	743.3	742.5
47.5°	709.5	708.3	705.2	704.0	702.8
50°	668.2	666.7	663.1	662.3	661.2
52.5°	625.0	624.2	619.5	619.1	618.0
55°	582.2	577.9	574.0	574.0	573.2
57.5°	535.1	531.9	526.8	526.8	526.0
60°	486.3	483.6	477.7	478.5	477.7
62.5°	438.8	432.9	427.4	429.8	427.8
65°	384.6	381.5	375.6	377.1	376.7
67.5°	335.1	329.2	323.7	326.9	325.3
70°	280.1	277.0	271.5	274.6	270.7
72.5°	228.2	225.5	220.0	223.5	219.6
75°	178.0	175.2	170.9	174.0	170.1
77.5°	130.4	128.5	124.5	127.7	128.5
80°	87.2	84.9	82.9	85.6	86.4
82.5°	51.1	49.5	48.7	49.1	51.1
85°	24.7	22.8	22.8	23.2	23.2
87.5°	6.7	5.9	6.7	7.1	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)