

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: P974126

Luminaire Tested: FLR2-24-55-L930-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974126  
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: FLR2-24-55-L930-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-55-L930-CP125  
Ballast/Driver: -

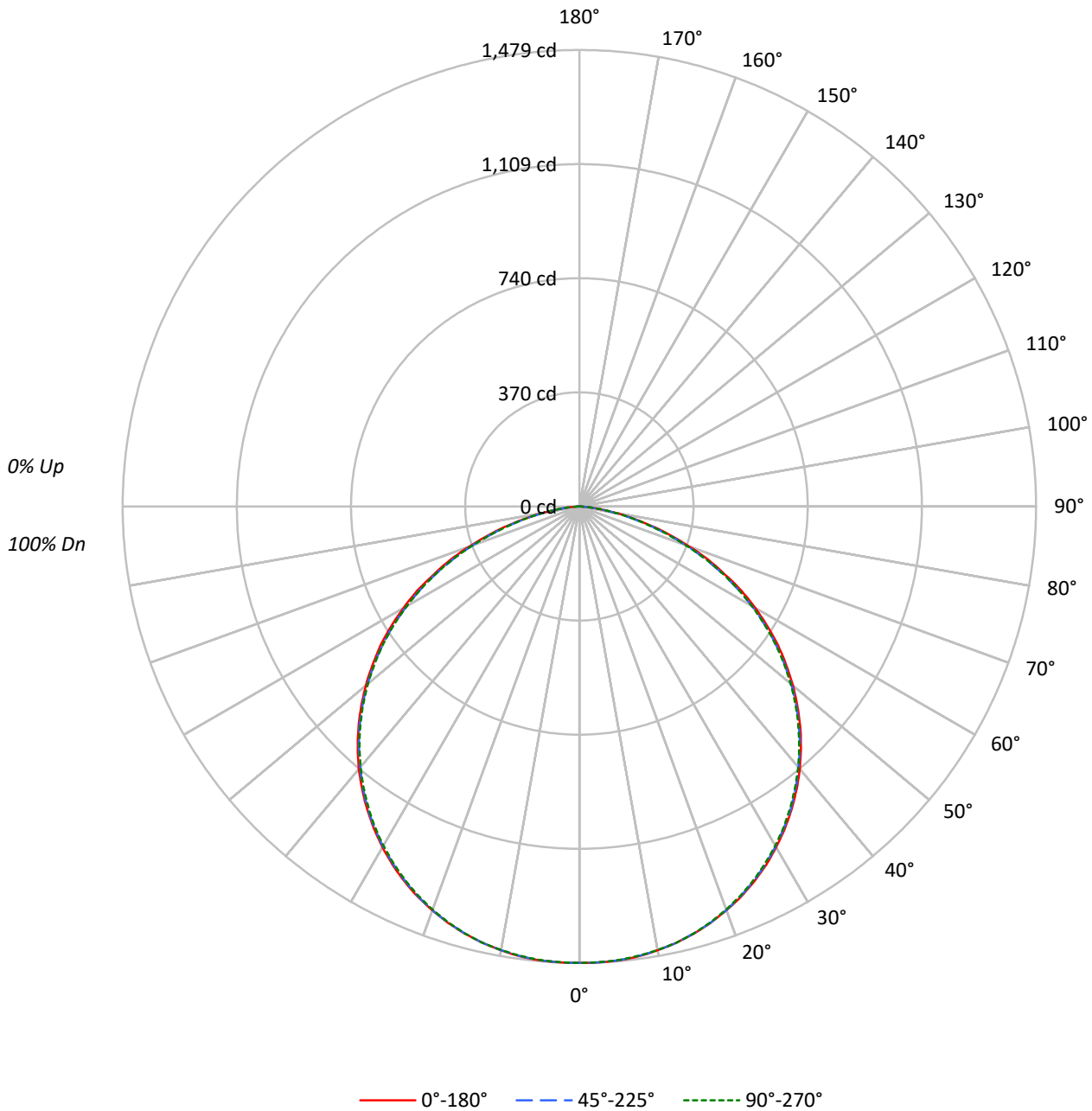
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4180.0 lumens  
Efficiency: N/A  
Efficacy: 94.8 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): 44.1  
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: P974126  
CATALOG NUMBER: FLR2-24-55-L930-CP125

### Luminous Intensity Polar Plot





TEST NUMBER: P974126  
 CATALOG NUMBER: FLR2-24-55-L930-CP125

**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°	1990	1990	1990
5°	1994	1994	1992
10°	1995	1994	1994
15°	1996	1995	1995
20°	1994	1993	1990
25°	1990	1986	1983
30°	1981	1975	1971
35°	1968	1963	1956
40°	1951	1939	1936
45°	1926	1914	1908
50°	1890	1875	1869
55°	1845	1819	1816
60°	1768	1736	1736
65°	1654	1615	1620
70°	1489	1443	1438
75°	1250	1200	1195
80°	913	868	904
85°	516	475	483

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1926 cd/sqm



TEST NUMBER: P974126  
 CATALOG NUMBER: FLR2-24-55-L930-CP125

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	3.4
10°-20°	404.4	9.7
20°-30°	616.6	14.8
30°-40°	747.1	17.9
40°-50°	776.0	18.6
50°-60°	694.2	16.6
60°-70°	505.9	12.1
70°-80°	250.6	6.0
80°-90°	44.8	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°	1161.4	27.8
0°-40°	1908.5	45.7
0°-60°	3378.7	80.8
0°-90°	4180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4180.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1476	1477	1476	1476	1475	140
15°	1433	1432	1432	1433	1432	405
25°	1340	1339	1338	1337	1336	618
35°	1198	1197	1195	1193	1191	749
45°	1012	1010	1006	1004	1003	780
55°	786	781	775	775	774	701
65°	520	515	507	509	509	515
75°	240	237	231	235	230	256
85°	33	31	31	31	31	46
90°	0	0	0	0	0	



TEST NUMBER: P974126  
 CATALOG NUMBER: FLR2-24-55-L930-CP125

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1478.9	1478.9	1478.9	1478.9	1478.9
2.5°	1478.9	1478.4	1478.4	1478.9	1477.9
5°	1476.3	1476.8	1476.3	1476.3	1475.2
7.5°	1470.5	1469.9	1469.4	1469.9	1468.3
10°	1460.4	1460.4	1459.8	1460.4	1459.3
12.5°	1448.2	1448.2	1448.2	1448.7	1448.2
15°	1432.8	1432.2	1432.2	1433.3	1432.2
17.5°	1414.7	1414.2	1414.2	1413.7	1412.6
20°	1392.4	1392.4	1391.9	1391.4	1389.8
22.5°	1368.6	1368.0	1366.4	1366.4	1364.3
25°	1340.4	1338.9	1337.8	1337.3	1335.7
27.5°	1309.7	1307.5	1306.0	1304.9	1303.3
30°	1275.2	1273.1	1271.5	1269.9	1268.8
32.5°	1238.0	1237.0	1234.3	1233.8	1231.7
35°	1198.2	1196.6	1195.0	1192.9	1190.8
37.5°	1155.8	1154.2	1150.5	1149.4	1147.8
40°	1110.7	1108.5	1103.8	1103.8	1102.2
42.5°	1062.4	1060.3	1057.1	1055.0	1053.9
45°	1012.0	1009.8	1006.1	1004.0	1002.9
47.5°	958.4	956.8	952.5	950.9	949.3
50°	902.7	900.5	895.8	894.7	893.1
52.5°	844.3	843.2	836.8	836.3	834.7
55°	786.4	780.6	775.3	775.3	774.2
57.5°	722.8	718.5	711.6	711.6	710.6
60°	657.0	653.2	645.3	646.3	645.3
62.5°	592.7	584.8	577.4	580.5	577.9
65°	519.5	515.3	507.3	509.4	508.9
67.5°	452.7	444.7	437.3	441.5	439.4
70°	378.4	374.1	366.7	370.9	365.6
72.5°	308.3	304.6	297.2	301.9	296.6
75°	240.4	236.7	230.8	235.1	229.8
77.5°	176.2	173.5	168.2	172.5	173.5
80°	117.8	114.6	112.0	115.7	116.7
82.5°	69.0	66.9	65.8	66.3	69.0
85°	33.4	30.8	30.8	31.3	31.3
87.5°	9.0	8.0	9.0	9.6	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)