

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: P974150

Luminaire Tested: FLR2-24-55-L930-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974150  
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-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-55-L930-CP375  
Ballast/Driver: -

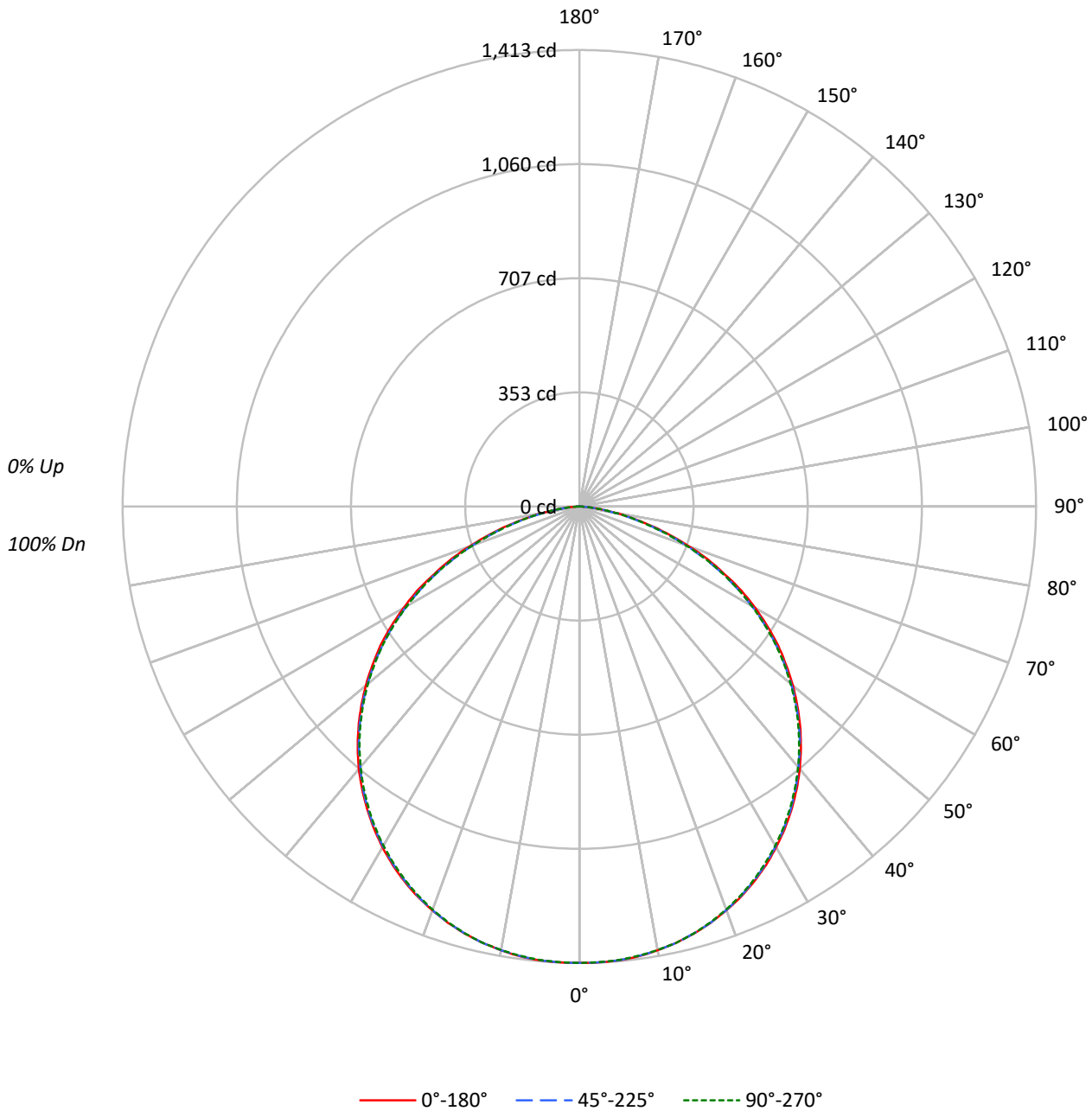
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3993.4 lumens  
Efficiency: N/A  
Efficacy: 90.6 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

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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°	1901	1901	1901
5°	1905	1905	1904
10°	1906	1906	1905
15°	1907	1906	1906
20°	1905	1904	1901
25°	1901	1897	1894
30°	1893	1887	1883
35°	1880	1875	1869
40°	1864	1852	1850
45°	1840	1829	1823
50°	1805	1791	1786
55°	1762	1738	1735
60°	1689	1659	1659
65°	1580	1543	1548
70°	1422	1378	1374
75°	1194	1146	1141
80°	872	829	864
85°	492	454	462

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1840 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	3.4
10°-20°	386.4	9.7
20°-30°	589.1	14.8
30°-40°	713.7	17.9
40°-50°	741.4	18.6
50°-60°	663.2	16.6
60°-70°	483.4	12.1
70°-80°	239.4	6.0
80°-90°	42.8	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°	1109.6	27.8
0°-40°	1823.3	45.7
0°-60°	3227.9	80.8
0°-90°	3993.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3993.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1410	1411	1410	1410	1409	134
15°	1369	1368	1368	1369	1368	386
25°	1281	1279	1278	1278	1276	590
35°	1145	1143	1142	1140	1138	716
45°	967	965	961	959	958	745
55°	751	746	741	741	740	669
65°	496	492	485	487	486	492
75°	230	226	220	225	220	245
85°	32	29	29	30	30	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1412.9	1412.9	1412.9	1412.9	1412.9
2.5°	1412.9	1412.4	1412.4	1412.9	1411.9
5°	1410.4	1410.9	1410.4	1410.4	1409.4
7.5°	1404.8	1404.3	1403.8	1404.3	1402.8
10°	1395.2	1395.2	1394.7	1395.2	1394.2
12.5°	1383.5	1383.5	1383.5	1384.0	1383.5
15°	1368.8	1368.3	1368.3	1369.3	1368.3
17.5°	1351.6	1351.1	1351.1	1350.6	1349.6
20°	1330.3	1330.3	1329.8	1329.3	1327.8
22.5°	1307.5	1307.0	1305.5	1305.5	1303.4
25°	1280.6	1279.1	1278.1	1277.6	1276.1
27.5°	1251.2	1249.2	1247.7	1246.6	1245.1
30°	1218.3	1216.2	1214.7	1213.2	1212.2
32.5°	1182.8	1181.8	1179.2	1178.7	1176.7
35°	1144.7	1143.2	1141.7	1139.7	1137.6
37.5°	1104.2	1102.7	1099.1	1098.1	1096.6
40°	1061.1	1059.1	1054.5	1054.5	1053.0
42.5°	1015.0	1012.9	1009.9	1007.9	1006.8
45°	966.8	964.8	961.2	959.2	958.2
47.5°	915.6	914.1	910.0	908.5	907.0
50°	862.4	860.3	855.8	854.8	853.2
52.5°	806.6	805.6	799.5	799.0	797.5
55°	751.3	745.8	740.7	740.7	739.7
57.5°	690.5	686.4	679.9	679.9	678.8
60°	627.6	624.1	616.5	617.5	616.5
62.5°	566.3	558.7	551.6	554.6	552.1
65°	496.3	492.3	484.7	486.7	486.2
67.5°	432.4	424.8	417.7	421.8	419.8
70°	361.5	357.4	350.3	354.4	349.3
72.5°	294.6	291.0	283.9	288.5	283.4
75°	229.7	226.1	220.5	224.6	219.5
77.5°	168.3	165.8	160.7	164.8	165.8
80°	112.5	109.5	107.0	110.5	111.5
82.5°	65.9	63.9	62.9	63.4	65.9
85°	31.9	29.4	29.4	29.9	29.9
87.5°	8.6	7.6	8.6	9.1	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)