

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: P974142

Luminaire Tested: FLR2-24-55-L930-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974142
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L930-CP250
Ballast/Driver: -

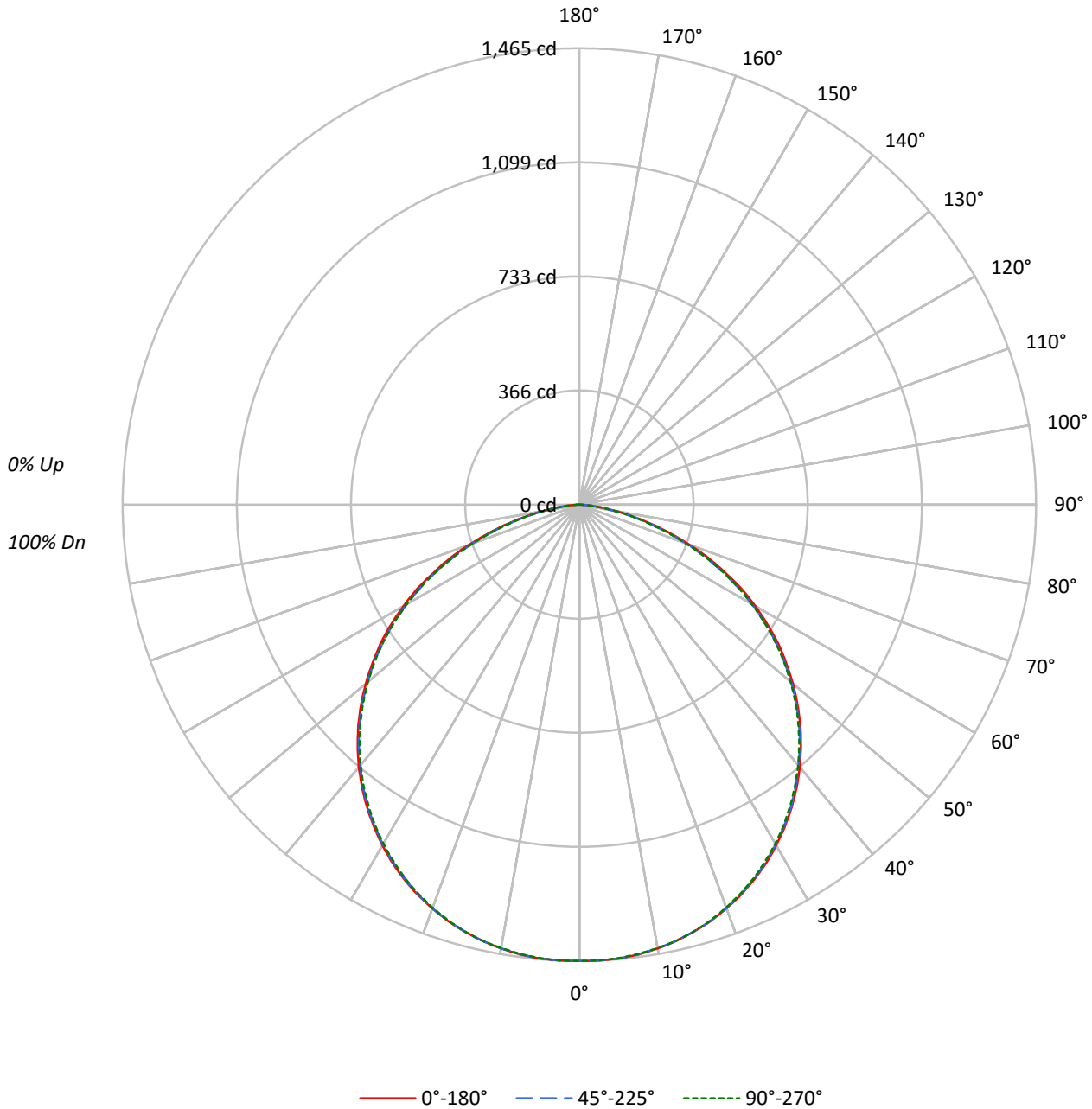
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4141.0 lumens
Efficiency: N/A
Efficacy: 93.9 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										
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°	1971	1971	1971
5°	1975	1975	1974
10°	1977	1976	1975
15°	1977	1976	1976
20°	1975	1975	1972
25°	1972	1968	1964
30°	1963	1957	1953
35°	1950	1945	1938
40°	1933	1921	1918
45°	1908	1897	1891
50°	1872	1858	1852
55°	1828	1802	1799
60°	1751	1720	1720
65°	1639	1600	1605
70°	1474	1429	1425
75°	1238	1189	1183
80°	904	859	896
85°	511	471	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1908 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.4
10°-20°	400.7	9.7
20°-30°	610.9	14.8
30°-40°	740.1	17.9
40°-50°	768.8	18.6
50°-60°	687.7	16.6
60°-70°	501.2	12.1
70°-80°	248.2	6.0
80°-90°	44.4	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°	1150.6	27.8
0°-40°	1890.7	45.7
0°-60°	3347.2	80.8
0°-90°	4141.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4141.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1463	1463	1463	1463	1462	139
15°	1419	1419	1419	1420	1419	401
25°	1328	1326	1325	1325	1323	612
35°	1187	1186	1184	1182	1180	742
45°	1002	1000	997	995	994	773
55°	779	773	768	768	767	694
65°	515	510	503	505	504	510
75°	238	234	229	233	228	254
85°	33	30	30	31	31	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.2	1465.2	1465.2	1465.2	1465.2
2.5°	1465.2	1464.7	1464.7	1465.2	1464.1
5°	1462.6	1463.1	1462.6	1462.6	1461.5
7.5°	1456.8	1456.2	1455.7	1456.2	1454.7
10°	1446.8	1446.8	1446.3	1446.8	1445.7
12.5°	1434.7	1434.7	1434.7	1435.2	1434.7
15°	1419.4	1418.9	1418.9	1420.0	1418.9
17.5°	1401.6	1401.0	1401.0	1400.5	1399.5
20°	1379.5	1379.5	1379.0	1378.4	1376.9
22.5°	1355.8	1355.3	1353.7	1353.7	1351.6
25°	1328.0	1326.4	1325.3	1324.8	1323.2
27.5°	1297.5	1295.4	1293.8	1292.7	1291.2
30°	1263.3	1261.2	1259.6	1258.0	1257.0
32.5°	1226.5	1225.5	1222.8	1222.3	1220.2
35°	1187.1	1185.5	1183.9	1181.8	1179.7
37.5°	1145.0	1143.4	1139.8	1138.7	1137.1
40°	1100.3	1098.2	1093.5	1093.5	1091.9
42.5°	1052.5	1050.4	1047.2	1045.1	1044.1
45°	1002.5	1000.4	996.8	994.7	993.6
47.5°	949.5	947.9	943.7	942.1	940.5
50°	894.3	892.1	887.4	886.4	884.8
52.5°	836.4	835.4	829.1	828.5	827.0
55°	779.1	773.3	768.1	768.1	767.0
57.5°	716.0	711.8	705.0	705.0	703.9
60°	650.8	647.2	639.3	640.3	639.3
62.5°	587.2	579.3	572.0	575.1	572.5
65°	514.7	510.5	502.6	504.7	504.2
67.5°	448.4	440.6	433.2	437.4	435.3
70°	374.8	370.6	363.3	367.5	362.2
72.5°	305.4	301.8	294.4	299.1	293.9
75°	238.2	234.5	228.7	232.9	227.6
77.5°	174.5	171.9	166.7	170.9	171.9
80°	116.7	113.6	110.9	114.6	115.7
82.5°	68.3	66.2	65.2	65.7	68.3
85°	33.1	30.5	30.5	31.0	31.0
87.5°	8.9	7.9	8.9	9.5	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)