

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: P974462

Luminaire Tested: FLR2-24-55-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974462
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-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L950-CP125
Ballast/Driver: -

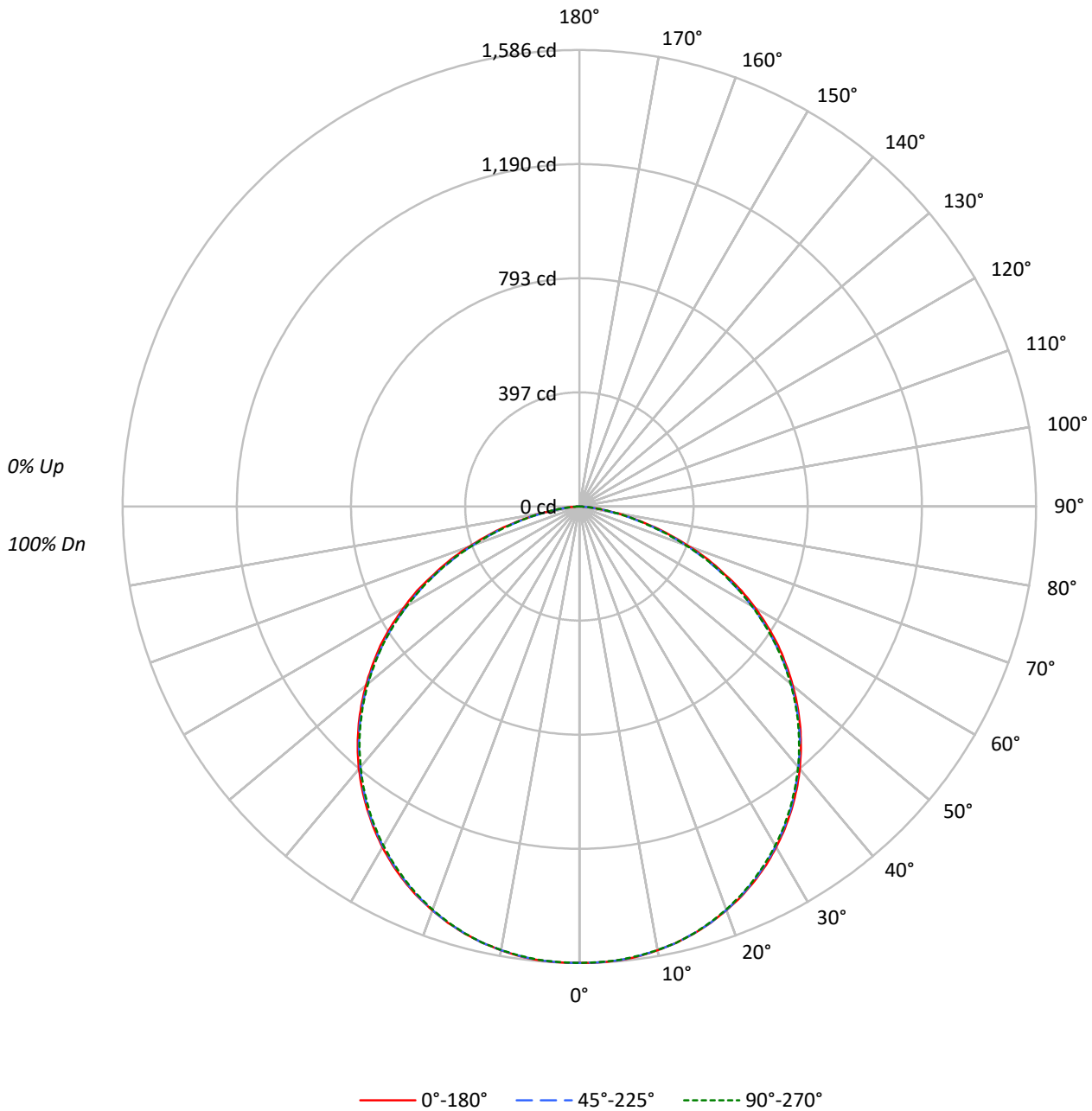
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4482.1 lumens
Efficiency: N/A
Efficacy: 101.6 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

TEST NUMBER: P974462
CATALOG NUMBER: FLR2-24-55-L950-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P974462
 CATALOG NUMBER: FLR2-24-55-L950-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°	2134	2134	2134
5°	2138	2138	2137
10°	2139	2139	2138
15°	2140	2139	2139
20°	2138	2137	2134
25°	2134	2130	2126
30°	2124	2118	2114
35°	2110	2105	2097
40°	2092	2079	2076
45°	2065	2053	2046
50°	2026	2011	2005
55°	1978	1950	1947
60°	1896	1862	1862
65°	1774	1732	1737
70°	1596	1547	1543
75°	1340	1287	1281
80°	979	931	970
85°	553	509	519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2065 cd/sqm



TEST NUMBER: P974462
 CATALOG NUMBER: FLR2-24-55-L950-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	3.4
10°-20°	433.7	9.7
20°-30°	661.2	14.8
30°-40°	801.1	17.9
40°-50°	832.1	18.6
50°-60°	744.4	16.6
60°-70°	542.5	12.1
70°-80°	268.7	6.0
80°-90°	48.0	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°	1245.4	27.8
0°-40°	2046.4	45.7
0°-60°	3622.9	80.8
0°-90°	4482.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1583	1584	1583	1583	1582	151
15°	1536	1536	1536	1537	1536	434
25°	1437	1436	1434	1434	1432	662
35°	1285	1283	1281	1279	1277	804
45°	1085	1083	1079	1077	1075	836
55°	843	837	831	831	830	751
65°	557	552	544	546	546	552
75°	258	254	248	252	246	275
85°	36	33	33	34	34	50
90°	0	0	0	0	0	



TEST NUMBER: P974462
 CATALOG NUMBER: FLR2-24-55-L950-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1585.9	1585.9	1585.9	1585.9	1585.9
2.5°	1585.9	1585.3	1585.3	1585.9	1584.7
5°	1583.0	1583.6	1583.0	1583.0	1581.9
7.5°	1576.8	1576.2	1575.6	1576.2	1574.5
10°	1565.9	1565.9	1565.4	1565.9	1564.8
12.5°	1552.9	1552.9	1552.9	1553.4	1552.9
15°	1536.4	1535.8	1535.8	1536.9	1535.8
17.5°	1517.0	1516.4	1516.4	1515.9	1514.7
20°	1493.1	1493.1	1492.5	1492.0	1490.3
22.5°	1467.5	1466.9	1465.2	1465.2	1463.0
25°	1437.3	1435.6	1434.5	1433.9	1432.2
27.5°	1404.3	1402.1	1400.4	1399.2	1397.5
30°	1367.4	1365.1	1363.4	1361.7	1360.5
32.5°	1327.5	1326.4	1323.5	1323.0	1320.7
35°	1284.8	1283.1	1281.4	1279.2	1276.9
37.5°	1239.3	1237.6	1233.6	1232.5	1230.8
40°	1191.0	1188.7	1183.6	1183.6	1181.9
42.5°	1139.2	1136.9	1133.5	1131.2	1130.1
45°	1085.1	1082.8	1078.9	1076.6	1075.4
47.5°	1027.6	1025.9	1021.4	1019.7	1018.0
50°	967.9	965.6	960.5	959.4	957.7
52.5°	905.3	904.2	897.3	896.8	895.1
55°	843.3	837.0	831.3	831.3	830.2
57.5°	775.0	770.5	763.1	763.1	761.9
60°	704.4	700.5	691.9	693.1	691.9
62.5°	635.6	627.1	619.1	622.5	619.7
65°	557.1	552.5	544.0	546.3	545.7
67.5°	485.4	476.8	468.9	473.4	471.1
70°	405.7	401.2	393.2	397.7	392.1
72.5°	330.6	326.6	318.7	323.8	318.1
75°	257.8	253.8	247.5	252.1	246.4
77.5°	188.9	186.1	180.4	184.9	186.1
80°	126.3	122.9	120.1	124.0	125.2
82.5°	74.0	71.7	70.6	71.1	74.0
85°	35.8	33.0	33.0	33.6	33.6
87.5°	9.7	8.5	9.7	10.2	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)