

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: P974478

Luminaire Tested: FLR2-24-55-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974478
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L950-CP250
Ballast/Driver: -

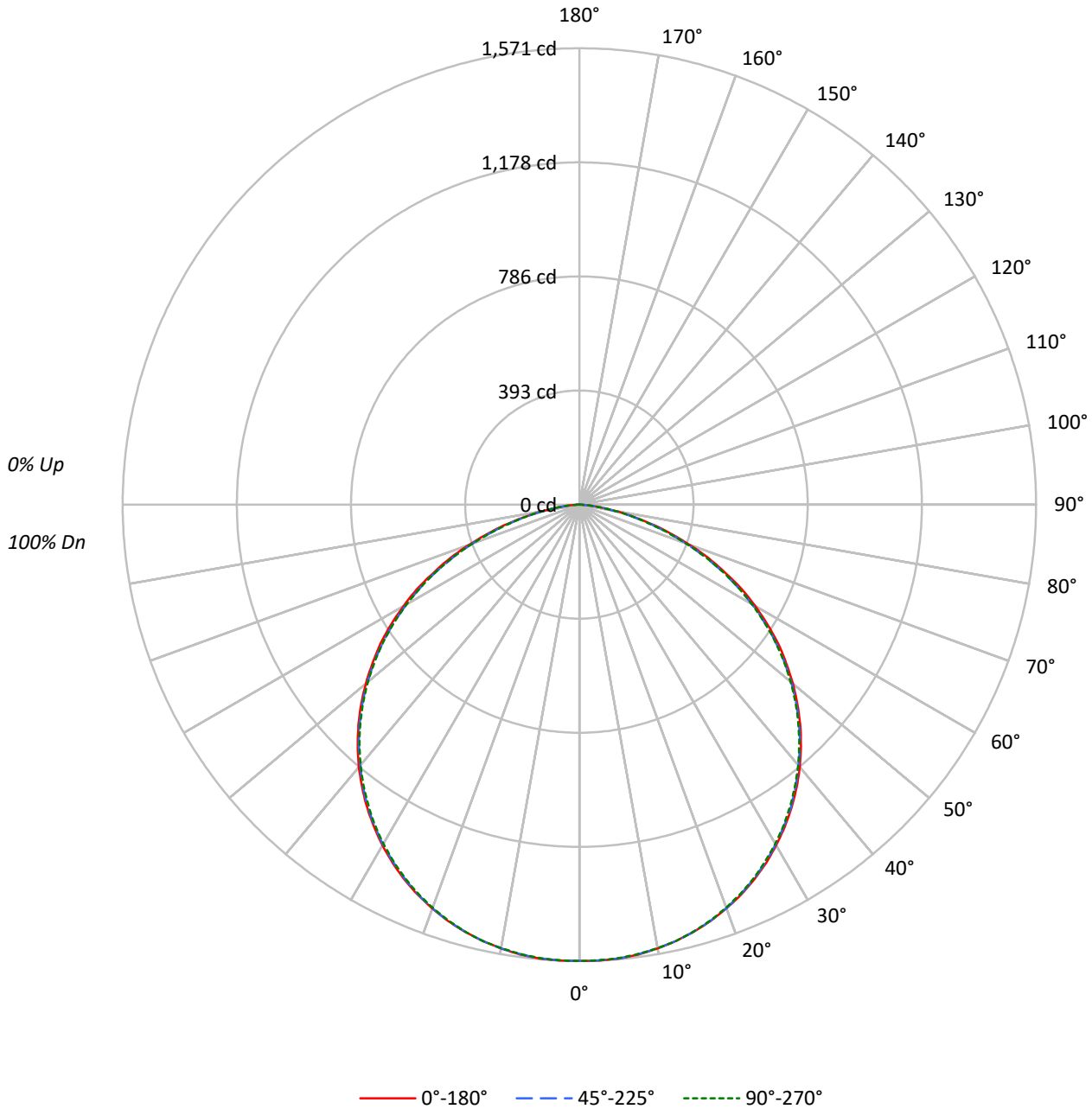
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4440.4 lumens
Efficiency: N/A
Efficacy: 100.7 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°	2114	2114	2114
5°	2118	2118	2117
10°	2120	2119	2118
15°	2120	2119	2119
20°	2118	2117	2114
25°	2114	2110	2106
30°	2105	2098	2094
35°	2091	2085	2078
40°	2072	2059	2057
45°	2046	2034	2027
50°	2007	1992	1986
55°	1960	1932	1929
60°	1878	1845	1845
65°	1757	1716	1721
70°	1581	1532	1528
75°	1328	1275	1269
80°	969	921	961
85°	548	505	514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2046 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.4
10°-20°	429.6	9.7
20°-30°	655.0	14.8
30°-40°	793.6	17.9
40°-50°	824.4	18.6
50°-60°	737.4	16.6
60°-70°	537.5	12.1
70°-80°	266.2	6.0
80°-90°	47.6	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°	1233.8	27.8
0°-40°	2027.4	45.7
0°-60°	3589.2	80.8
0°-90°	4440.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4440.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1568	1569	1568	1568	1567	149
15°	1522	1522	1522	1523	1522	430
25°	1424	1422	1421	1421	1419	656
35°	1273	1271	1270	1267	1265	796
45°	1075	1073	1069	1067	1065	828
55°	835	829	824	824	822	744
65°	552	547	539	541	541	547
75°	255	251	245	250	244	272
85°	36	33	33	33	33	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1571.1	1570.5	1570.5	1571.1	1570.0
5°	1568.3	1568.8	1568.3	1568.3	1567.2
7.5°	1562.1	1561.5	1561.0	1561.5	1559.8
10°	1551.4	1551.4	1550.8	1551.4	1550.2
12.5°	1538.4	1538.4	1538.4	1539.0	1538.4
15°	1522.1	1521.5	1521.5	1522.6	1521.5
17.5°	1502.9	1502.3	1502.3	1501.8	1500.6
20°	1479.2	1479.2	1478.6	1478.1	1476.4
22.5°	1453.8	1453.3	1451.6	1451.6	1449.3
25°	1424.0	1422.3	1421.1	1420.6	1418.9
27.5°	1391.3	1389.0	1387.3	1386.2	1384.5
30°	1354.6	1352.4	1350.7	1349.0	1347.9
32.5°	1315.2	1314.0	1311.2	1310.7	1308.4
35°	1272.9	1271.2	1269.5	1267.3	1265.0
37.5°	1227.8	1226.1	1222.2	1221.0	1219.3
40°	1179.9	1177.6	1172.5	1172.5	1170.9
42.5°	1128.6	1126.3	1122.9	1120.7	1119.6
45°	1075.0	1072.8	1068.8	1066.6	1065.4
47.5°	1018.1	1016.4	1011.9	1010.2	1008.5
50°	958.9	956.6	951.6	950.4	948.7
52.5°	896.9	895.8	889.0	888.4	886.7
55°	835.4	829.2	823.6	823.6	822.5
57.5°	767.8	763.3	756.0	756.0	754.8
60°	697.9	693.9	685.5	686.6	685.5
62.5°	629.7	621.2	613.3	616.7	613.9
65°	551.9	547.4	538.9	541.2	540.6
67.5°	480.9	472.4	464.5	469.0	466.8
70°	401.9	397.4	389.5	394.0	388.4
72.5°	327.5	323.6	315.7	320.8	315.1
75°	255.4	251.4	245.2	249.7	244.1
77.5°	187.2	184.3	178.7	183.2	184.3
80°	125.1	121.8	118.9	122.9	124.0
82.5°	73.3	71.0	69.9	70.5	73.3
85°	35.5	32.7	32.7	33.3	33.3
87.5°	9.6	8.5	9.6	10.1	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)