

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: P974502

Luminaire Tested: FLR2-24-55-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974502
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L950-CA125
Ballast/Driver: -

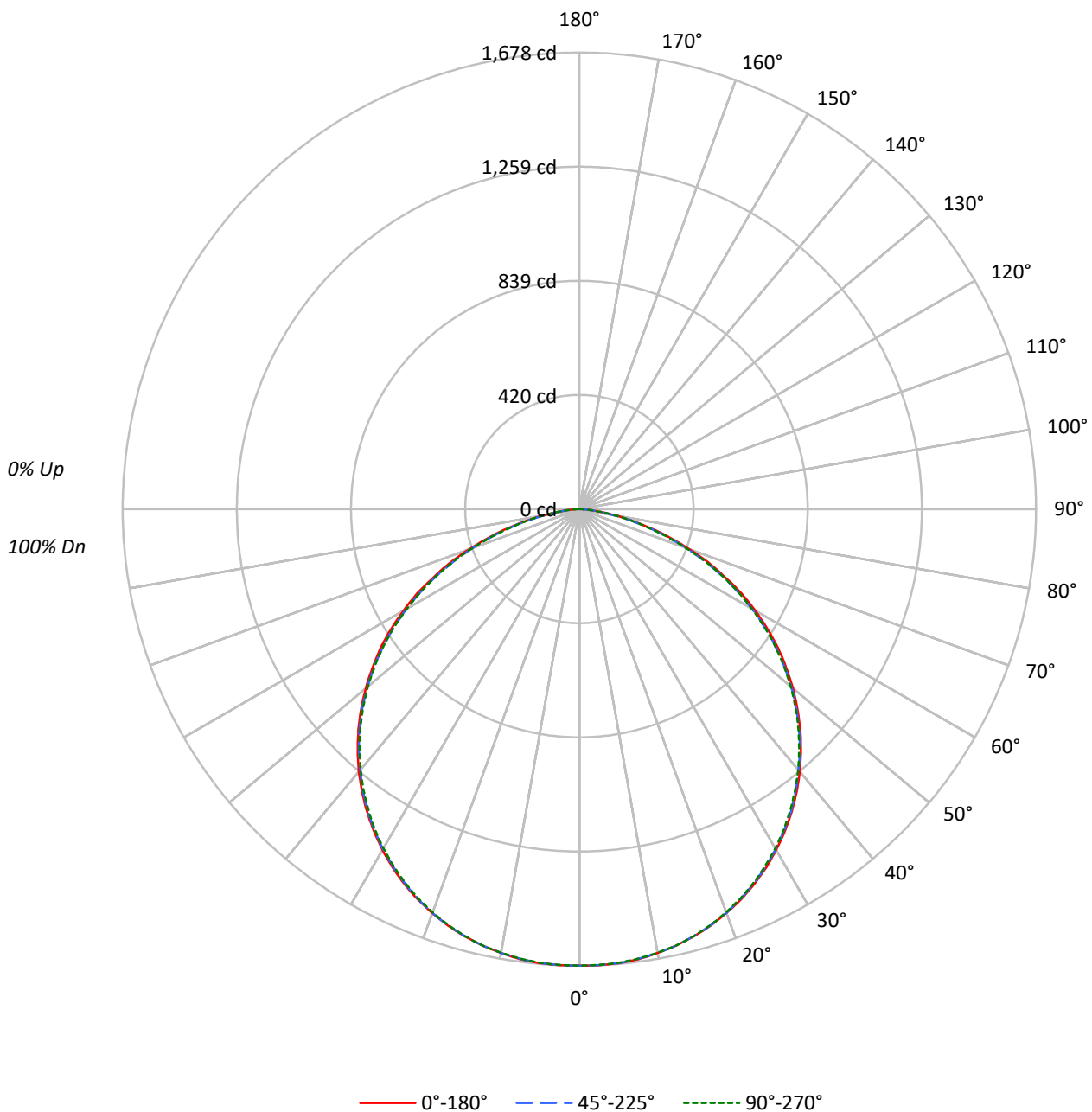
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4742.6 lumens
Efficiency: N/A
Efficacy: 107.5 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	2258	2258	2258
5°	2262	2262	2261
10°	2264	2263	2262
15°	2264	2264	2264
20°	2262	2261	2258
25°	2258	2253	2250
30°	2248	2241	2237
35°	2233	2227	2219
40°	2213	2200	2196
45°	2185	2172	2165
50°	2144	2127	2121
55°	2093	2064	2061
60°	2006	1970	1970
65°	1876	1833	1838
70°	1689	1637	1632
75°	1418	1362	1355
80°	1036	984	1027
85°	585	539	548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2185 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	3.4
10°-20°	458.9	9.7
20°-30°	699.6	14.8
30°-40°	847.6	17.9
40°-50°	880.5	18.6
50°-60°	787.6	16.6
60°-70°	574.0	12.1
70°-80°	284.3	6.0
80°-90°	50.8	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°	1317.7	27.8
0°-40°	2165.4	45.7
0°-60°	3833.5	80.8
0°-90°	4742.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4742.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1675	1676	1675	1675	1674	159
15°	1626	1625	1625	1626	1625	459
25°	1521	1519	1518	1517	1516	701
35°	1360	1358	1356	1354	1351	850
45°	1148	1146	1142	1139	1138	885
55°	892	886	880	880	878	795
65°	589	585	576	578	577	584
75°	273	268	262	267	261	291
85°	38	35	35	36	36	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.0	1678.0	1678.0	1678.0	1678.0
2.5°	1678.0	1677.4	1677.4	1678.0	1676.8
5°	1675.0	1675.6	1675.0	1675.0	1673.8
7.5°	1668.4	1667.8	1667.2	1667.8	1666.0
10°	1657.0	1657.0	1656.4	1657.0	1655.8
12.5°	1643.1	1643.1	1643.1	1643.7	1643.1
15°	1625.6	1625.0	1625.0	1626.2	1625.0
17.5°	1605.2	1604.6	1604.6	1604.0	1602.8
20°	1579.9	1579.9	1579.3	1578.7	1576.9
22.5°	1552.8	1552.2	1550.4	1550.4	1548.0
25°	1520.9	1519.1	1517.9	1517.3	1515.5
27.5°	1486.0	1483.6	1481.7	1480.5	1478.7
30°	1446.8	1444.4	1442.6	1440.8	1439.6
32.5°	1404.7	1403.5	1400.5	1399.9	1397.5
35°	1359.5	1357.7	1355.9	1353.5	1351.1
37.5°	1311.4	1309.5	1305.3	1304.1	1302.3
40°	1260.2	1257.8	1252.3	1252.3	1250.5
42.5°	1205.4	1203.0	1199.4	1197.0	1195.8
45°	1148.2	1145.8	1141.6	1139.2	1138.0
47.5°	1087.4	1085.6	1080.8	1078.9	1077.1
50°	1024.2	1021.7	1016.3	1015.1	1013.3
52.5°	957.9	956.7	949.5	948.9	947.1
55°	892.3	885.7	879.7	879.7	878.5
57.5°	820.0	815.2	807.4	807.4	806.2
60°	745.4	741.2	732.1	733.3	732.1
62.5°	672.5	663.5	655.1	658.7	655.7
65°	589.4	584.6	575.6	578.0	577.4
67.5°	513.6	504.6	496.1	500.9	498.5
70°	429.3	424.5	416.0	420.9	414.8
72.5°	349.8	345.6	337.2	342.6	336.6
75°	272.7	268.5	261.9	266.7	260.7
77.5°	199.9	196.9	190.9	195.7	196.9
80°	133.7	130.1	127.0	131.3	132.5
82.5°	78.3	75.9	74.7	75.3	78.3
85°	37.9	34.9	34.9	35.5	35.5
87.5°	10.2	9.0	10.2	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)