

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: P974350

Luminaire Tested: FLR2-24-55-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974350
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-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L940-CP125
Ballast/Driver: -

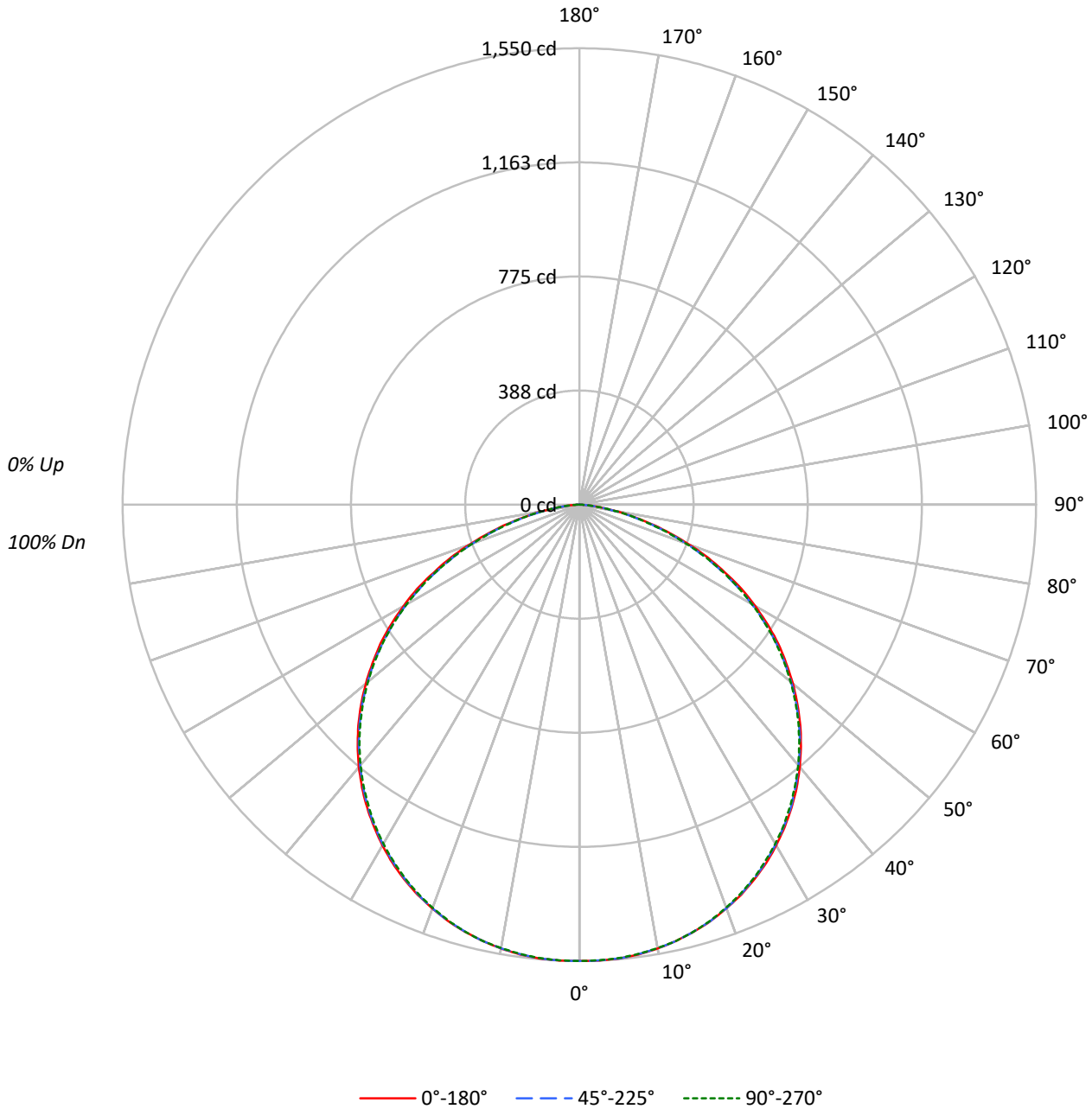
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4381.4 lumens
Efficiency: N/A
Efficacy: 99.4 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									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	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°	2086	2086	2086
5°	2090	2090	2088
10°	2091	2091	2090
15°	2092	2091	2091
20°	2090	2089	2086
25°	2086	2082	2078
30°	2077	2071	2066
35°	2063	2057	2050
40°	2045	2032	2029
45°	2018	2007	2000
50°	1981	1965	1959
55°	1934	1906	1904
60°	1853	1820	1820
65°	1734	1693	1698
70°	1560	1512	1507
75°	1310	1258	1252
80°	957	910	948
85°	540	499	506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2018 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	3.4
10°-20°	423.9	9.7
20°-30°	646.3	14.8
30°-40°	783.1	17.9
40°-50°	813.4	18.6
50°-60°	727.7	16.6
60°-70°	530.3	12.1
70°-80°	262.6	6.0
80°-90°	47.0	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°	1217.4	27.8
0°-40°	2000.5	45.7
0°-60°	3541.5	80.8
0°-90°	4381.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4381.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1547	1548	1547	1547	1546	147
15°	1502	1501	1501	1502	1501	424
25°	1405	1403	1402	1402	1400	648
35°	1256	1254	1253	1250	1248	786
45°	1061	1058	1055	1052	1051	817
55°	824	818	813	813	812	734
65°	545	540	532	534	533	540
75°	252	248	242	246	241	269
85°	35	32	32	33	33	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550.2	1550.2	1550.2	1550.2	1550.2
2.5°	1550.2	1549.7	1549.7	1550.2	1549.1
5°	1547.4	1548.0	1547.4	1547.4	1546.3
7.5°	1541.3	1540.8	1540.2	1540.8	1539.1
10°	1530.8	1530.8	1530.2	1530.8	1529.6
12.5°	1518.0	1518.0	1518.0	1518.5	1518.0
15°	1501.8	1501.3	1501.3	1502.4	1501.3
17.5°	1482.9	1482.4	1482.4	1481.8	1480.7
20°	1459.6	1459.6	1459.0	1458.4	1456.8
22.5°	1434.5	1434.0	1432.3	1432.3	1430.1
25°	1405.0	1403.4	1402.3	1401.7	1400.0
27.5°	1372.8	1370.6	1368.9	1367.8	1366.1
30°	1336.6	1334.4	1332.7	1331.1	1330.0
32.5°	1297.7	1296.6	1293.8	1293.2	1291.0
35°	1256.0	1254.3	1252.6	1250.4	1248.2
37.5°	1211.5	1209.8	1205.9	1204.8	1203.1
40°	1164.2	1162.0	1157.0	1157.0	1155.3
42.5°	1113.6	1111.4	1108.0	1105.8	1104.7
45°	1060.7	1058.5	1054.6	1052.4	1051.3
47.5°	1004.6	1002.9	998.4	996.8	995.1
50°	946.2	943.9	938.9	937.8	936.1
52.5°	885.0	883.9	877.2	876.6	875.0
55°	824.3	818.2	812.7	812.7	811.5
57.5°	757.6	753.1	745.9	745.9	744.8
60°	688.6	684.7	676.4	677.5	676.4
62.5°	621.3	613.0	605.2	608.5	605.7
65°	544.6	540.1	531.8	534.0	533.4
67.5°	474.5	466.1	458.3	462.8	460.6
70°	396.6	392.1	384.4	388.8	383.2
72.5°	323.2	319.3	311.5	316.5	310.9
75°	252.0	248.1	242.0	246.4	240.8
77.5°	184.7	181.9	176.3	180.8	181.9
80°	123.5	120.1	117.4	121.3	122.4
82.5°	72.3	70.1	69.0	69.5	72.3
85°	35.0	32.3	32.3	32.8	32.8
87.5°	9.5	8.3	9.5	10.0	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)