

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: P974463

Luminaire Tested: FLR2-24-65-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974463
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: FLR2-24-65-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L950-CP125
Ballast/Driver: -

Summary

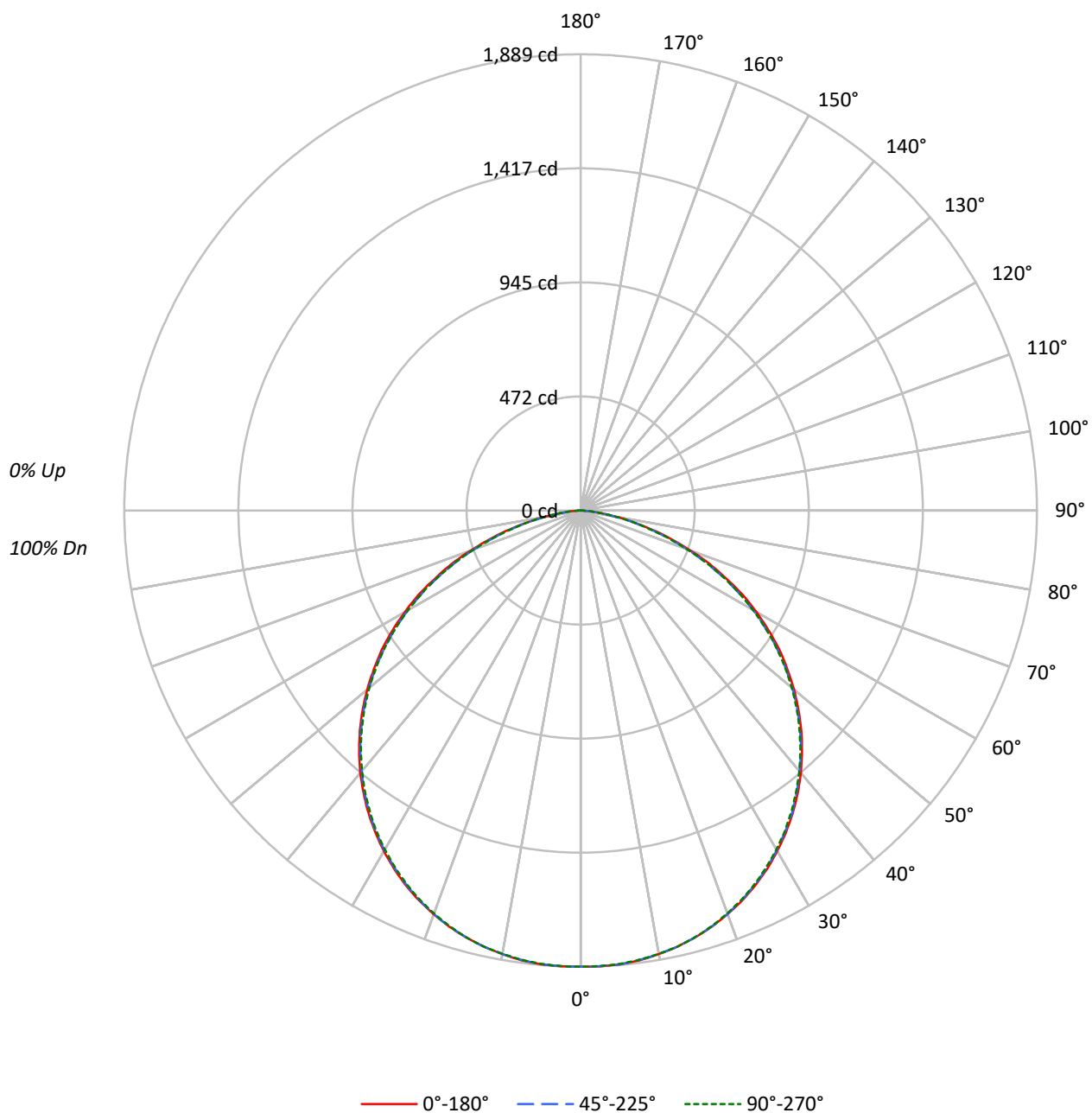
Lumens per Lamp: N/A
Luminaire Lumens: 5339.3 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	2542	2542	2542
5°	2547	2547	2545
10°	2549	2548	2547
15°	2549	2548	2548
20°	2547	2546	2542
25°	2542	2537	2533
30°	2531	2523	2518
35°	2514	2507	2498
40°	2492	2476	2473
45°	2460	2445	2438
50°	2413	2395	2388
55°	2357	2323	2320
60°	2258	2218	2218
65°	2113	2063	2069
70°	1901	1843	1837
75°	1596	1533	1526
80°	1166	1108	1155
85°	659	607	618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	3.4
10°-20°	516.6	9.7
20°-30°	787.6	14.8
30°-40°	954.3	17.9
40°-50°	991.2	18.6
50°-60°	886.7	16.6
60°-70°	646.3	12.1
70°-80°	320.1	6.0
80°-90°	57.2	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°	1483.5	27.8
0°-40°	2437.8	45.7
0°-60°	4315.8	80.8
0°-90°	5339.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5339.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1889	1889	1889	1889	1889	
5°	1886	1886	1886	1886	1884	179
15°	1830	1830	1830	1831	1830	517
25°	1712	1710	1709	1708	1706	789
35°	1531	1528	1526	1524	1521	957
45°	1293	1290	1285	1282	1281	996
55°	1005	997	990	990	989	895
65°	664	658	648	651	650	658
75°	307	302	295	300	294	327
85°	43	39	39	40	40	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1889.1	1889.1	1889.1	1889.1	1889.1
2.5°	1889.1	1888.5	1888.5	1889.1	1887.8
5°	1885.8	1886.4	1885.8	1885.8	1884.4
7.5°	1878.3	1877.6	1876.9	1877.6	1875.6
10°	1865.4	1865.4	1864.7	1865.4	1864.1
12.5°	1849.8	1849.8	1849.8	1850.5	1849.8
15°	1830.2	1829.5	1829.5	1830.8	1829.5
17.5°	1807.1	1806.4	1806.4	1805.8	1804.4
20°	1778.7	1778.7	1778.0	1777.3	1775.3
22.5°	1748.1	1747.5	1745.4	1745.4	1742.7
25°	1712.2	1710.2	1708.8	1708.2	1706.1
27.5°	1672.9	1670.2	1668.2	1666.8	1664.8
30°	1628.8	1626.1	1624.1	1622.1	1620.7
32.5°	1581.4	1580.0	1576.7	1576.0	1573.3
35°	1530.6	1528.5	1526.5	1523.8	1521.1
37.5°	1476.3	1474.3	1469.6	1468.2	1466.2
40°	1418.7	1416.0	1409.9	1409.9	1407.9
42.5°	1357.0	1354.3	1350.3	1347.5	1346.2
45°	1292.6	1289.9	1285.2	1282.5	1281.1
47.5°	1224.2	1222.1	1216.7	1214.7	1212.7
50°	1153.0	1150.3	1144.2	1142.8	1140.8
52.5°	1078.4	1077.1	1069.0	1068.3	1066.2
55°	1004.6	997.1	990.3	990.3	989.0
57.5°	923.2	917.8	909.0	909.0	907.6
60°	839.2	834.4	824.3	825.6	824.3
62.5°	757.1	747.0	737.5	741.6	738.2
65°	663.6	658.2	648.0	650.7	650.0
67.5°	578.2	568.0	558.5	564.0	561.3
70°	483.3	477.9	468.4	473.8	467.0
72.5°	393.8	389.1	379.6	385.7	378.9
75°	307.1	302.3	294.9	300.3	293.5
77.5°	225.0	221.7	214.9	220.3	221.7
80°	150.5	146.4	143.0	147.8	149.1
82.5°	88.1	85.4	84.1	84.7	88.1
85°	42.7	39.3	39.3	40.0	40.0
87.5°	11.5	10.2	11.5	12.2	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)