

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: P975061

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975061
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: FLR2-24-65HE-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

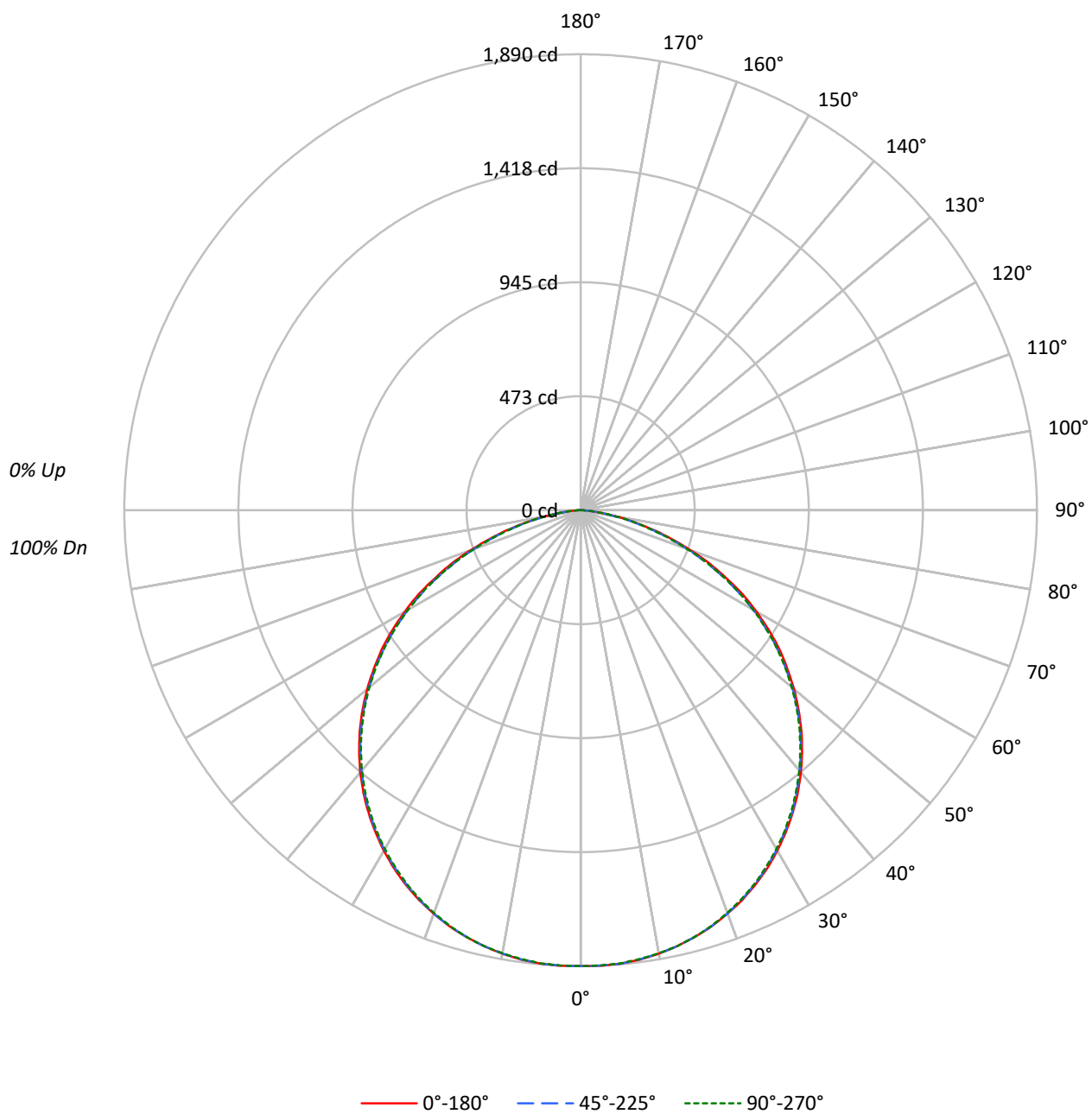
Lumens per Lamp: N/A
Luminaire Lumens: 5342.6 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
Input Voltage (V):
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°	2543	2543	2543
5°	2549	2549	2547
10°	2550	2549	2548
15°	2551	2550	2550
20°	2548	2547	2544
25°	2544	2538	2534
30°	2532	2525	2520
35°	2516	2509	2500
40°	2493	2478	2474
45°	2461	2447	2439
50°	2415	2397	2389
55°	2358	2324	2321
60°	2260	2220	2220
65°	2114	2064	2071
70°	1902	1844	1838
75°	1598	1534	1527
80°	1167	1109	1156
85°	659	607	618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	3.4
10°-20°	516.9	9.7
20°-30°	788.1	14.8
30°-40°	954.9	17.9
40°-50°	991.8	18.6
50°-60°	887.3	16.6
60°-70°	646.7	12.1
70°-80°	320.2	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°	1484.5	27.8
0°-40°	2439.3	45.7
0°-60°	4318.4	80.8
0°-90°	5342.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5342.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1890	1890	1890	1890	1890	
5°	1887	1888	1887	1887	1886	179
15°	1831	1831	1831	1832	1831	517
25°	1713	1711	1710	1709	1707	790
35°	1532	1530	1527	1525	1522	958
45°	1293	1291	1286	1283	1282	997
55°	1005	998	991	991	990	896
65°	664	659	648	651	650	658
75°	307	302	295	300	294	328
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°	1890.3	1890.3	1890.3	1890.3	1890.3
2.5°	1890.3	1889.6	1889.6	1890.3	1889.0
5°	1886.9	1887.6	1886.9	1886.9	1885.6
7.5°	1879.5	1878.8	1878.1	1878.8	1876.7
10°	1866.6	1866.6	1865.9	1866.6	1865.2
12.5°	1851.0	1851.0	1851.0	1851.7	1851.0
15°	1831.3	1830.6	1830.6	1832.0	1830.6
17.5°	1808.2	1807.6	1807.6	1806.9	1805.5
20°	1779.8	1779.8	1779.1	1778.4	1776.4
22.5°	1749.2	1748.6	1746.5	1746.5	1743.8
25°	1713.3	1711.3	1709.9	1709.2	1707.2
27.5°	1673.9	1671.2	1669.2	1667.8	1665.8
30°	1629.9	1627.1	1625.1	1623.1	1621.7
32.5°	1582.4	1581.0	1577.6	1577.0	1574.2
35°	1531.5	1529.5	1527.4	1524.7	1522.0
37.5°	1477.3	1475.2	1470.5	1469.1	1467.1
40°	1419.6	1416.9	1410.8	1410.8	1408.7
42.5°	1357.9	1355.2	1351.1	1348.4	1347.0
45°	1293.4	1290.7	1286.0	1283.3	1281.9
47.5°	1224.9	1222.9	1217.5	1215.4	1213.4
50°	1153.7	1151.0	1144.9	1143.5	1141.5
52.5°	1079.1	1077.8	1069.6	1068.9	1066.9
55°	1005.2	997.7	990.9	990.9	989.6
57.5°	923.8	918.4	909.5	909.5	908.2
60°	839.7	834.9	824.8	826.1	824.8
62.5°	757.6	747.4	737.9	742.0	738.6
65°	664.0	658.6	648.4	651.1	650.5
67.5°	578.6	568.4	558.9	564.3	561.6
70°	483.6	478.2	468.7	474.1	467.3
72.5°	394.1	389.3	379.8	385.9	379.1
75°	307.3	302.5	295.0	300.5	293.7
77.5°	225.2	221.8	215.0	220.4	221.8
80°	150.6	146.5	143.1	147.9	149.2
82.5°	88.2	85.5	84.1	84.8	88.2
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)