

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: P974479

Luminaire Tested: FLR2-24-65-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974479
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L950-CP250
Ballast/Driver: -

Summary

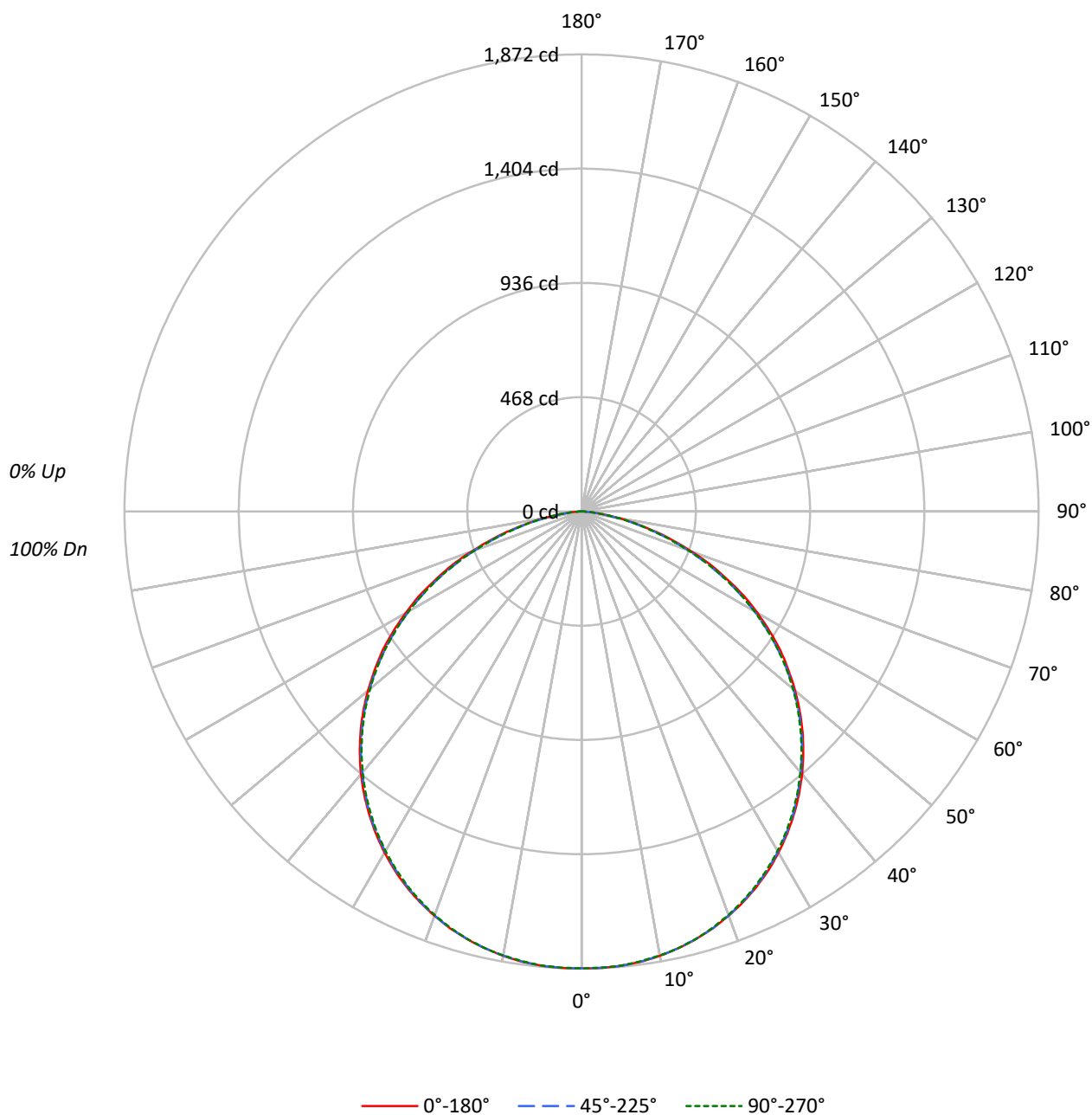
Lumens per Lamp: N/A
Luminaire Lumens: 5289.6 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	87	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	73	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	62	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	53	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2518	2518	2518
5°	2523	2523	2521
10°	2525	2524	2523
15°	2526	2525	2525
20°	2523	2522	2518
25°	2518	2513	2509
30°	2507	2500	2495
35°	2491	2484	2475
40°	2469	2453	2450
45°	2437	2423	2415
50°	2391	2373	2366
55°	2335	2301	2298
60°	2237	2197	2197
65°	2093	2044	2050
70°	1884	1825	1820
75°	1581	1519	1512
80°	1155	1098	1144
85°	653	601	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	3.4
10°-20°	511.8	9.7
20°-30°	780.3	14.8
30°-40°	945.4	17.9
40°-50°	982.0	18.6
50°-60°	878.5	16.6
60°-70°	640.2	12.1
70°-80°	317.1	6.0
80°-90°	56.7	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°	1469.7	27.8
0°-40°	2415.1	45.7
0°-60°	4275.6	80.8
0°-90°	5289.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5289.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1868	1869	1868	1868	1867	178
15°	1813	1812	1812	1814	1812	512
25°	1696	1694	1693	1692	1690	782
35°	1516	1514	1512	1510	1507	948
45°	1281	1278	1273	1270	1269	987
55°	995	988	981	981	980	887
65°	657	652	642	645	644	652
75°	304	300	292	298	291	324
85°	42	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°	1871.6	1871.6	1871.6	1871.6	1871.6
2.5°	1871.6	1870.9	1870.9	1871.6	1870.2
5°	1868.2	1868.9	1868.2	1868.2	1866.9
7.5°	1860.8	1860.1	1859.5	1860.1	1858.1
10°	1848.1	1848.1	1847.4	1848.1	1846.7
12.5°	1832.6	1832.6	1832.6	1833.3	1832.6
15°	1813.1	1812.5	1812.5	1813.8	1812.5
17.5°	1790.3	1789.6	1789.6	1789.0	1787.6
20°	1762.1	1762.1	1761.4	1760.8	1758.7
22.5°	1731.9	1731.2	1729.2	1729.2	1726.5
25°	1696.3	1694.3	1692.9	1692.3	1690.2
27.5°	1657.3	1654.7	1652.6	1651.3	1649.3
30°	1613.7	1611.0	1609.0	1607.0	1605.6
32.5°	1566.7	1565.3	1562.0	1561.3	1558.6
35°	1516.3	1514.3	1512.3	1509.6	1506.9
37.5°	1462.6	1460.6	1455.9	1454.5	1452.5
40°	1405.5	1402.8	1396.8	1396.8	1394.8
42.5°	1344.4	1341.7	1337.7	1335.0	1333.7
45°	1280.6	1277.9	1273.2	1270.5	1269.2
47.5°	1212.8	1210.8	1205.4	1203.4	1201.4
50°	1142.3	1139.6	1133.5	1132.2	1130.2
52.5°	1068.4	1067.1	1059.0	1058.3	1056.3
55°	995.2	987.8	981.1	981.1	979.8
57.5°	914.6	909.3	900.5	900.5	899.2
60°	831.4	826.7	816.6	817.9	816.6
62.5°	750.1	740.0	730.6	734.7	731.3
65°	657.4	652.1	642.0	644.7	644.0
67.5°	572.8	562.7	553.3	558.7	556.0
70°	478.8	473.4	464.0	469.4	462.7
72.5°	390.2	385.5	376.1	382.1	375.4
75°	304.2	299.5	292.1	297.5	290.8
77.5°	222.9	219.6	212.9	218.2	219.6
80°	149.1	145.1	141.7	146.4	147.7
82.5°	87.3	84.6	83.3	83.9	87.3
85°	42.3	38.9	38.9	39.6	39.6
87.5°	11.4	10.1	11.4	12.1	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)