

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: P975117

Luminaire Tested: FLR2-24-72HE-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975117
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: FLR2-24-72HE-L950-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

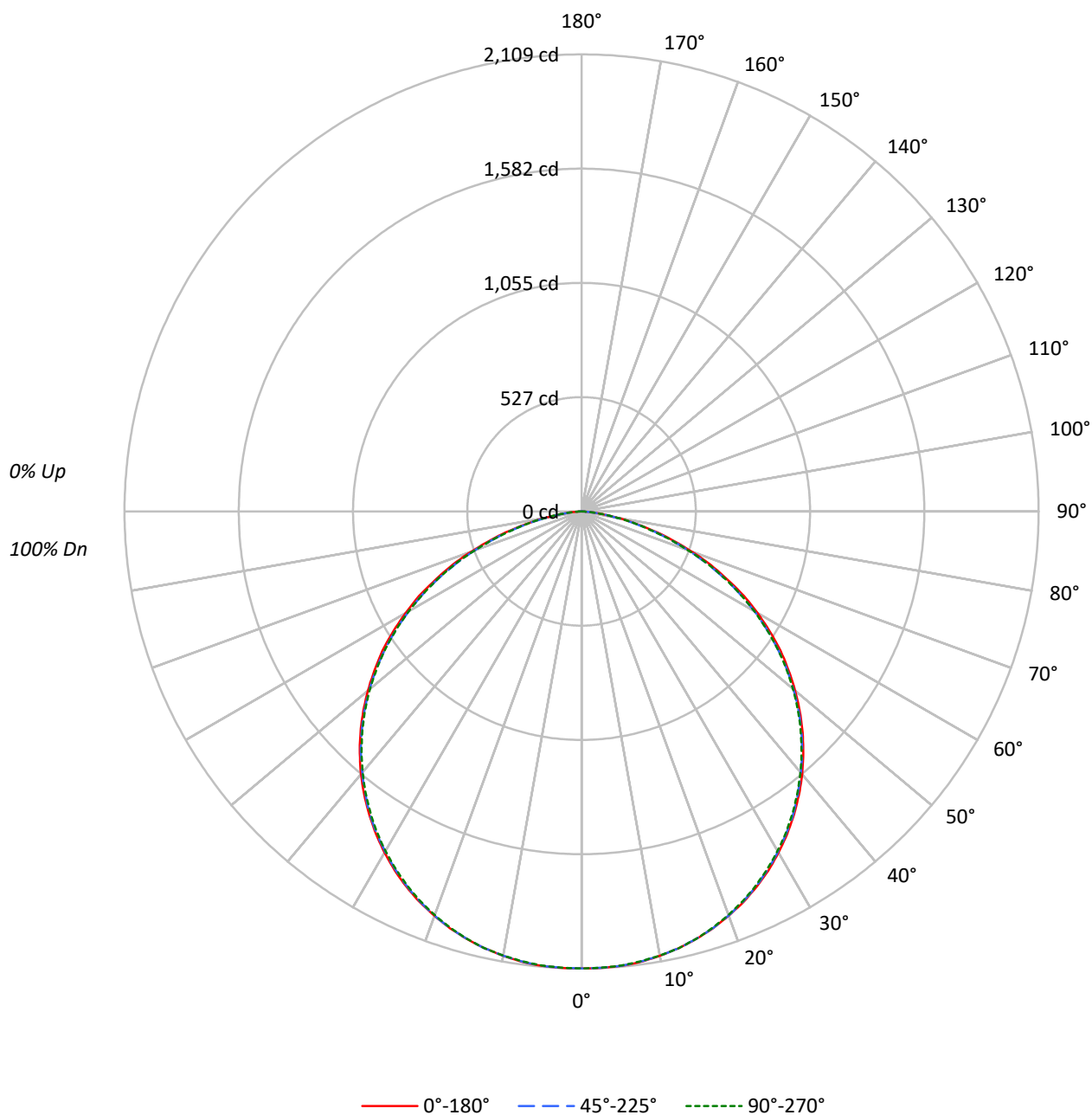
Lumens per Lamp: N/A
Luminaire Lumens: 5959.8 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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°	2837	2837	2837
5°	2843	2843	2841
10°	2845	2844	2843
15°	2846	2845	2845
20°	2843	2842	2837
25°	2837	2832	2827
30°	2825	2817	2811
35°	2806	2799	2789
40°	2781	2764	2760
45°	2746	2730	2721
50°	2694	2673	2665
55°	2630	2593	2590
60°	2521	2476	2476
65°	2358	2303	2310
70°	2122	2057	2051
75°	1782	1711	1703
80°	1302	1237	1290
85°	736	678	689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2746 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	3.4
10°-20°	576.6	9.7
20°-30°	879.2	14.8
30°-40°	1065.2	17.9
40°-50°	1106.4	18.6
50°-60°	989.8	16.6
60°-70°	721.4	12.1
70°-80°	357.2	6.0
80°-90°	63.9	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°	1655.9	27.8
0°-40°	2721.1	45.7
0°-60°	4817.3	80.8
0°-90°	5959.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5959.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2109	2109	2109	2109	2109	
5°	2105	2106	2105	2105	2103	200
15°	2043	2042	2042	2044	2042	577
25°	1911	1909	1907	1907	1904	881
35°	1708	1706	1704	1701	1698	1069
45°	1443	1440	1434	1432	1430	1112
55°	1121	1113	1105	1105	1104	999
65°	741	735	723	726	726	734
75°	343	338	329	335	328	365
85°	48	44	44	45	45	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2108.7	2108.7	2108.7	2108.7	2108.7
2.5°	2108.7	2107.9	2107.9	2108.7	2107.2
5°	2104.9	2105.7	2104.9	2104.9	2103.4
7.5°	2096.6	2095.8	2095.1	2095.8	2093.6
10°	2082.2	2082.2	2081.5	2082.2	2080.7
12.5°	2064.8	2064.8	2064.8	2065.6	2064.8
15°	2042.9	2042.1	2042.1	2043.6	2042.1
17.5°	2017.1	2016.4	2016.4	2015.6	2014.1
20°	1985.4	1985.4	1984.6	1983.9	1981.6
22.5°	1951.3	1950.6	1948.3	1948.3	1945.3
25°	1911.2	1908.9	1907.4	1906.7	1904.4
27.5°	1867.3	1864.3	1862.0	1860.5	1858.3
30°	1818.2	1815.1	1812.9	1810.6	1809.1
32.5°	1765.2	1763.7	1759.9	1759.1	1756.1
35°	1708.4	1706.2	1703.9	1700.9	1697.9
37.5°	1647.9	1645.6	1640.3	1638.8	1636.6
40°	1583.6	1580.6	1573.8	1573.8	1571.5
42.5°	1514.8	1511.7	1507.2	1504.2	1502.6
45°	1442.9	1439.8	1434.5	1431.5	1430.0
47.5°	1366.5	1364.2	1358.1	1355.9	1353.6
50°	1287.0	1284.0	1277.2	1275.7	1273.4
52.5°	1203.8	1202.3	1193.2	1192.4	1190.2
55°	1121.3	1113.0	1105.4	1105.4	1103.9
57.5°	1030.5	1024.5	1014.6	1014.6	1013.1
60°	936.7	931.4	920.0	921.6	920.0
62.5°	845.1	833.8	823.2	827.7	824.0
65°	740.7	734.7	723.3	726.4	725.6
67.5°	645.4	634.0	623.5	629.5	626.5
70°	539.5	533.4	522.8	528.9	521.3
72.5°	439.6	434.3	423.7	430.5	422.9
75°	342.7	337.5	329.1	335.2	327.6
77.5°	251.2	247.4	239.8	245.9	247.4
80°	168.0	163.4	159.6	164.9	166.5
82.5°	98.4	95.3	93.8	94.6	98.4
85°	47.7	43.9	43.9	44.6	44.6
87.5°	12.9	11.3	12.9	13.6	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)