

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: P974160

Luminaire Tested: FLR2-24-72-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974160
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: FLR2-24-72-L930-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L930-CA080
Ballast/Driver: -

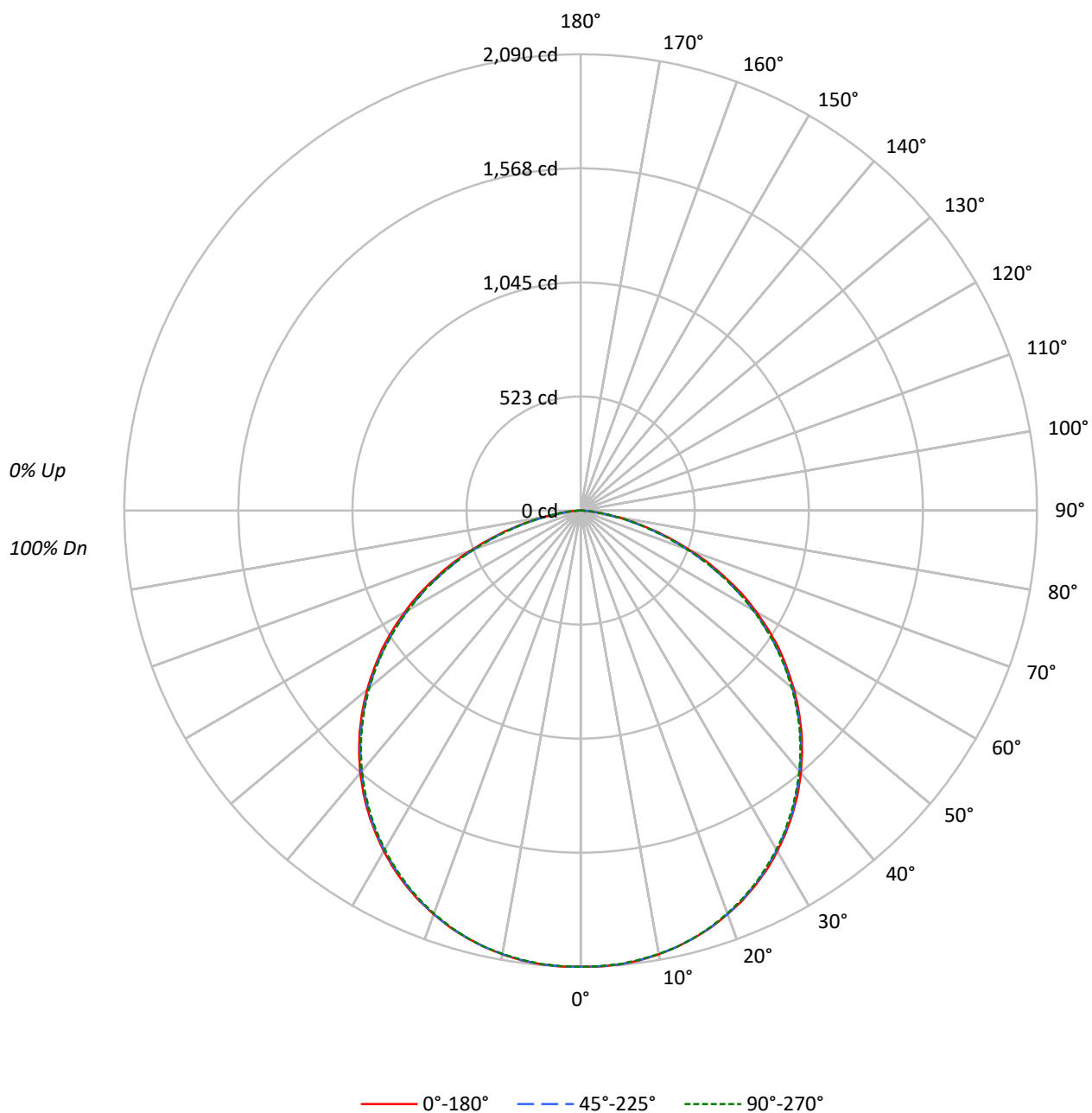
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5908.0 lumens
Efficiency: N/A
Efficacy: 97.0 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): 60.9
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°	2813	2813	2813
5°	2818	2818	2816
10°	2820	2819	2818
15°	2821	2820	2820
20°	2818	2817	2813
25°	2813	2807	2803
30°	2800	2792	2786
35°	2782	2774	2765
40°	2757	2740	2736
45°	2722	2706	2697
50°	2671	2650	2642
55°	2608	2571	2567
60°	2499	2454	2454
65°	2338	2283	2290
70°	2104	2039	2033
75°	1766	1696	1688
80°	1290	1227	1278
85°	730	672	684

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2722 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.4	3.4
10°-20°	571.6	9.7
20°-30°	871.5	14.8
30°-40°	1055.9	17.9
40°-50°	1096.8	18.6
50°-60°	981.2	16.6
60°-70°	715.1	12.1
70°-80°	354.2	6.0
80°-90°	63.3	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°	1641.5	27.8
0°-40°	2697.4	45.7
0°-60°	4775.4	80.8
0°-90°	5908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2087	2087	2087	2087	2085	198
15°	2025	2024	2024	2026	2024	572
25°	1895	1892	1891	1890	1888	873
35°	1694	1691	1689	1686	1683	1059
45°	1430	1427	1422	1419	1418	1102
55°	1112	1103	1096	1096	1094	990
65°	734	728	717	720	719	728
75°	340	334	326	332	325	362
85°	47	44	44	44	44	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2090.4	2090.4	2090.4	2090.4	2090.4
2.5°	2090.4	2089.6	2089.6	2090.4	2088.9
5°	2086.6	2087.4	2086.6	2086.6	2085.1
7.5°	2078.4	2077.6	2076.9	2077.6	2075.4
10°	2064.1	2064.1	2063.4	2064.1	2062.6
12.5°	2046.9	2046.9	2046.9	2047.6	2046.9
15°	2025.1	2024.4	2024.4	2025.9	2024.4
17.5°	1999.6	1998.9	1998.9	1998.1	1996.6
20°	1968.1	1968.1	1967.3	1966.6	1964.3
22.5°	1934.3	1933.6	1931.3	1931.3	1928.3
25°	1894.6	1892.3	1890.8	1890.1	1887.8
27.5°	1851.1	1848.1	1845.8	1844.3	1842.1
30°	1802.3	1799.3	1797.1	1794.8	1793.3
32.5°	1749.8	1748.3	1744.6	1743.8	1740.8
35°	1693.6	1691.3	1689.1	1686.1	1683.1
37.5°	1633.6	1631.3	1626.1	1624.6	1622.3
40°	1569.8	1566.8	1560.1	1560.1	1557.8
42.5°	1501.6	1498.6	1494.1	1491.1	1489.6
45°	1430.3	1427.3	1422.1	1419.1	1417.6
47.5°	1354.6	1352.3	1346.3	1344.1	1341.8
50°	1275.8	1272.8	1266.1	1264.6	1262.3
52.5°	1193.3	1191.8	1182.8	1182.1	1179.8
55°	1111.6	1103.3	1095.8	1095.8	1094.3
57.5°	1021.6	1015.6	1005.8	1005.8	1004.3
60°	928.5	923.3	912.0	913.5	912.0
62.5°	837.8	826.5	816.0	820.5	816.8
65°	734.3	728.3	717.0	720.0	719.3
67.5°	639.8	628.5	618.0	624.0	621.0
70°	534.8	528.8	518.3	524.3	516.8
72.5°	435.8	430.5	420.0	426.8	419.3
75°	339.8	334.5	326.3	332.3	324.8
77.5°	249.0	245.3	237.8	243.8	245.3
80°	166.5	162.0	158.3	163.5	165.0
82.5°	97.5	94.5	93.0	93.8	97.5
85°	47.3	43.5	43.5	44.3	44.3
87.5°	12.8	11.3	12.8	13.5	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)