

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: P974368

Luminaire Tested: FLR2-24-72-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974368
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-L940-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L940-CP250
Ballast/Driver: -

Summary

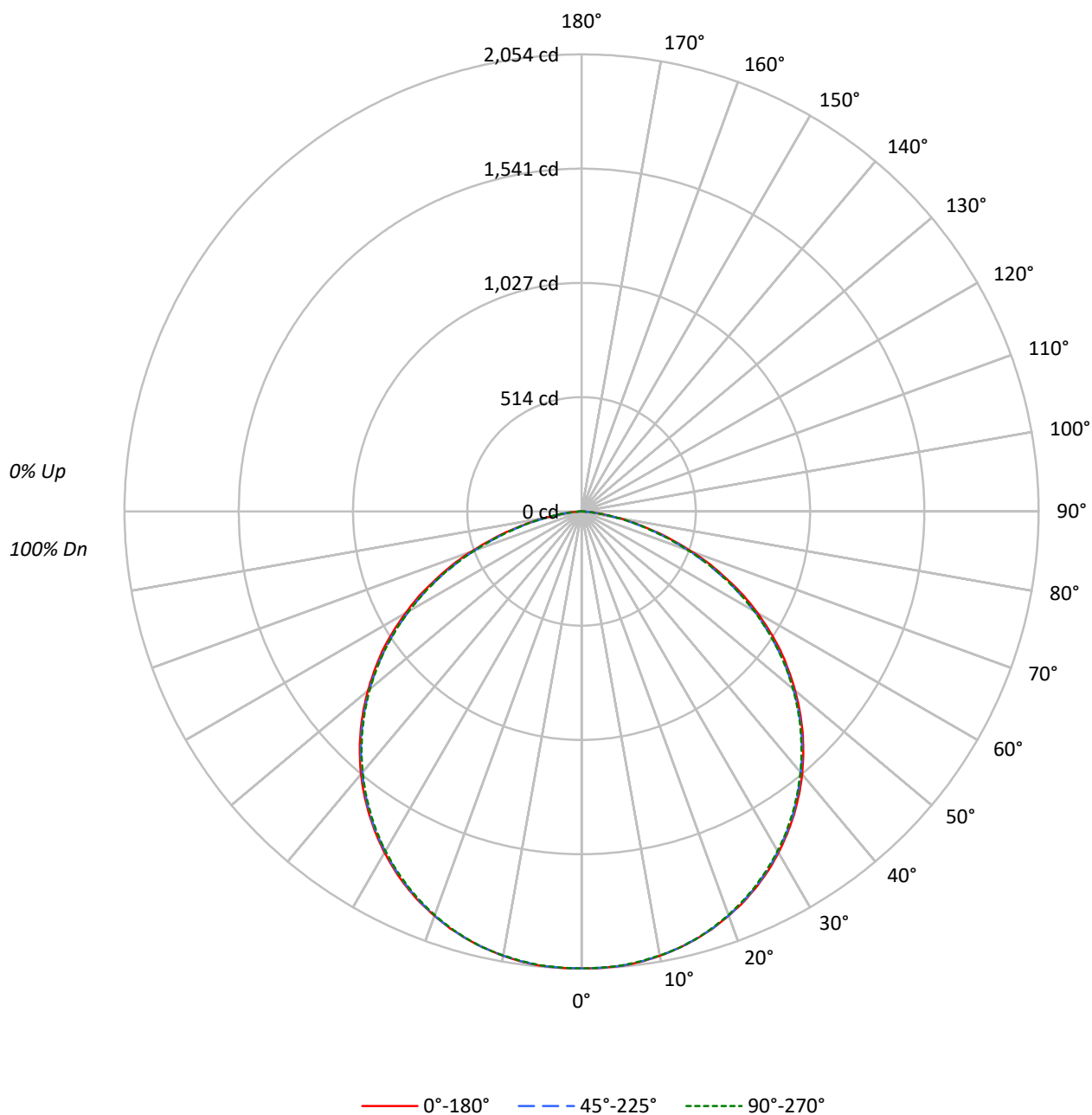
Lumens per Lamp: N/A
Luminaire Lumens: 5804.4 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2763	2763	2763
5°	2769	2769	2767
10°	2771	2770	2769
15°	2771	2770	2770
20°	2769	2767	2763
25°	2763	2758	2753
30°	2751	2743	2737
35°	2733	2726	2716
40°	2709	2692	2688
45°	2674	2658	2650
50°	2624	2604	2596
55°	2562	2525	2522
60°	2455	2411	2411
65°	2297	2243	2250
70°	2067	2003	1997
75°	1735	1666	1659
80°	1268	1205	1256
85°	716	659	672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	3.4
10°-20°	561.6	9.7
20°-30°	856.2	14.8
30°-40°	1037.4	17.9
40°-50°	1077.6	18.6
50°-60°	964.0	16.6
60°-70°	702.5	12.1
70°-80°	347.9	6.0
80°-90°	62.2	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°	1612.7	27.8
0°-40°	2650.1	45.7
0°-60°	4691.7	80.8
0°-90°	5804.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5804.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2050	2051	2050	2050	2048	195
15°	1990	1989	1989	1990	1989	562
25°	1861	1859	1858	1857	1855	858
35°	1664	1662	1660	1656	1654	1041
45°	1405	1402	1397	1394	1393	1083
55°	1092	1084	1077	1077	1075	973
65°	721	716	704	707	707	715
75°	334	329	320	326	319	356
85°	46	43	43	44	44	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2053.7	2053.7	2053.7	2053.7	2053.7
2.5°	2053.7	2052.9	2052.9	2053.7	2052.2
5°	2050.0	2050.7	2050.0	2050.0	2048.5
7.5°	2041.9	2041.2	2040.4	2041.2	2038.9
10°	2027.9	2027.9	2027.2	2027.9	2026.4
12.5°	2010.9	2010.9	2010.9	2011.7	2010.9
15°	1989.6	1988.8	1988.8	1990.3	1988.8
17.5°	1964.5	1963.8	1963.8	1963.0	1961.6
20°	1933.6	1933.6	1932.8	1932.1	1929.9
22.5°	1900.4	1899.7	1897.5	1897.5	1894.5
25°	1861.4	1859.1	1857.7	1856.9	1854.7
27.5°	1818.6	1815.7	1813.5	1812.0	1809.8
30°	1770.7	1767.8	1765.6	1763.4	1761.9
32.5°	1719.1	1717.7	1714.0	1713.2	1710.3
35°	1663.9	1661.7	1659.5	1656.5	1653.6
37.5°	1604.9	1602.7	1597.6	1596.1	1593.9
40°	1542.3	1539.3	1532.7	1532.7	1530.5
42.5°	1475.2	1472.3	1467.9	1464.9	1463.4
45°	1405.2	1402.3	1397.1	1394.2	1392.7
47.5°	1330.8	1328.6	1322.7	1320.5	1318.3
50°	1253.4	1250.5	1243.9	1242.4	1240.2
52.5°	1172.4	1170.9	1162.1	1161.3	1159.1
55°	1092.1	1084.0	1076.6	1076.6	1075.1
57.5°	1003.6	997.7	988.2	988.2	986.7
60°	912.3	907.1	896.0	897.5	896.0
62.5°	823.1	812.0	801.7	806.1	802.5
65°	721.4	715.5	704.5	707.4	706.7
67.5°	628.6	617.5	607.2	613.1	610.1
70°	525.4	519.5	509.2	515.1	507.7
72.5°	428.1	423.0	412.7	419.3	411.9
75°	333.8	328.6	320.5	326.4	319.1
77.5°	244.6	241.0	233.6	239.5	241.0
80°	163.6	159.2	155.5	160.6	162.1
82.5°	95.8	92.8	91.4	92.1	95.8
85°	46.4	42.7	42.7	43.5	43.5
87.5°	12.5	11.1	12.5	13.3	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)