

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: P974344

Luminaire Tested: FLR2-24-72-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974344
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L940-CP080
Ballast/Driver: -

Summary

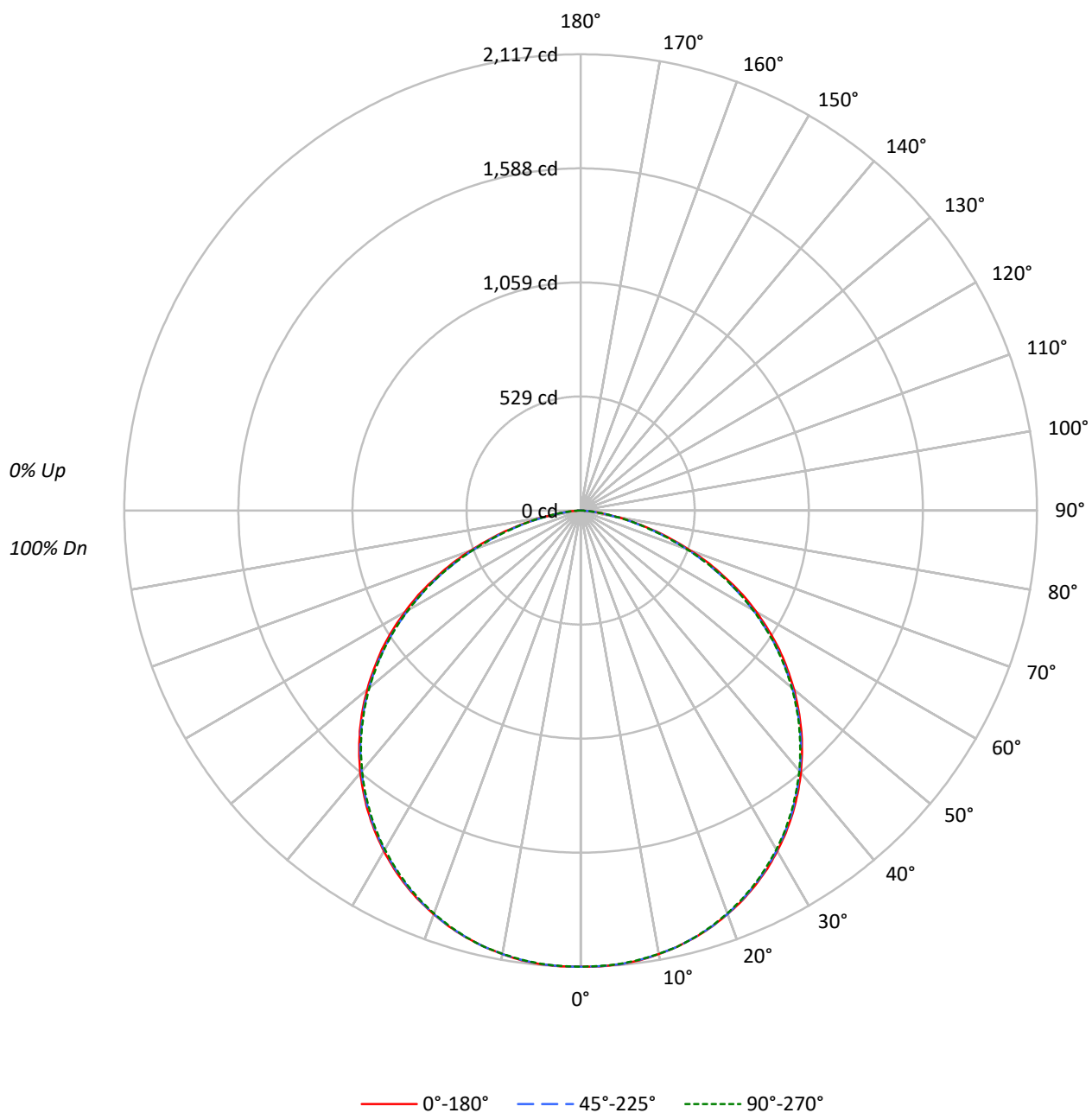
Lumens per Lamp: N/A
Luminaire Lumens: 5983.4 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2848	2848	2848
5°	2854	2854	2852
10°	2856	2855	2854
15°	2857	2856	2856
20°	2854	2853	2849
25°	2849	2843	2838
30°	2836	2828	2822
35°	2817	2810	2800
40°	2793	2775	2771
45°	2756	2740	2732
50°	2705	2684	2676
55°	2641	2603	2600
60°	2531	2486	2486
65°	2368	2312	2319
70°	2131	2065	2059
75°	1789	1718	1710
80°	1306	1242	1295
85°	739	681	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2756 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	3.4
10°-20°	578.9	9.7
20°-30°	882.6	14.8
30°-40°	1069.4	17.9
40°-50°	1110.8	18.6
50°-60°	993.7	16.6
60°-70°	724.2	12.1
70°-80°	358.7	6.0
80°-90°	64.1	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°	1662.5	27.8
0°-40°	2731.9	45.7
0°-60°	4836.4	80.8
0°-90°	5983.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5983.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2117	2117	2117	2117	2117	
5°	2113	2114	2113	2113	2112	201
15°	2051	2050	2050	2052	2050	579
25°	1919	1916	1915	1914	1912	884
35°	1715	1713	1711	1708	1705	1073
45°	1449	1446	1440	1437	1436	1116
55°	1126	1117	1110	1110	1108	1003
65°	744	738	726	729	728	737
75°	344	339	330	336	329	367
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°	2117.0	2117.0	2117.0	2117.0	2117.0
2.5°	2117.0	2116.3	2116.3	2117.0	2115.5
5°	2113.2	2114.0	2113.2	2113.2	2111.7
7.5°	2104.9	2104.1	2103.4	2104.1	2101.8
10°	2090.4	2090.4	2089.7	2090.4	2088.9
12.5°	2073.0	2073.0	2073.0	2073.7	2073.0
15°	2050.9	2050.2	2050.2	2051.7	2050.2
17.5°	2025.1	2024.4	2024.4	2023.6	2022.1
20°	1993.2	1993.2	1992.5	1991.7	1989.4
22.5°	1959.0	1958.3	1956.0	1956.0	1953.0
25°	1918.8	1916.5	1915.0	1914.2	1911.9
27.5°	1874.7	1871.7	1869.4	1867.9	1865.6
30°	1825.3	1822.3	1820.0	1817.7	1816.2
32.5°	1772.2	1770.7	1766.9	1766.1	1763.1
35°	1715.2	1712.9	1710.6	1707.6	1704.6
37.5°	1654.4	1652.2	1646.8	1645.3	1643.0
40°	1589.9	1586.8	1580.0	1580.0	1577.7
42.5°	1520.7	1517.7	1513.1	1510.1	1508.6
45°	1448.6	1445.5	1440.2	1437.2	1435.7
47.5°	1371.9	1369.6	1363.5	1361.2	1358.9
50°	1292.1	1289.1	1282.2	1280.7	1278.4
52.5°	1208.5	1207.0	1197.9	1197.1	1194.9
55°	1125.7	1117.4	1109.8	1109.8	1108.3
57.5°	1034.6	1028.5	1018.6	1018.6	1017.1
60°	940.4	935.1	923.7	925.2	923.7
62.5°	848.5	837.1	826.5	831.0	827.2
65°	743.7	737.6	726.2	729.2	728.5
67.5°	647.9	636.6	625.9	632.0	629.0
70°	541.6	535.5	524.9	531.0	523.4
72.5°	441.3	436.0	425.4	432.2	424.6
75°	344.1	338.8	330.4	336.5	328.9
77.5°	252.2	248.4	240.8	246.9	248.4
80°	168.6	164.1	160.3	165.6	167.1
82.5°	98.7	95.7	94.2	95.0	98.7
85°	47.9	44.1	44.1	44.8	44.8
87.5°	12.9	11.4	12.9	13.7	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)