

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: P974392

Luminaire Tested: FLR2-24-72-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974392
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L940-CA125
Ballast/Driver: -

Summary

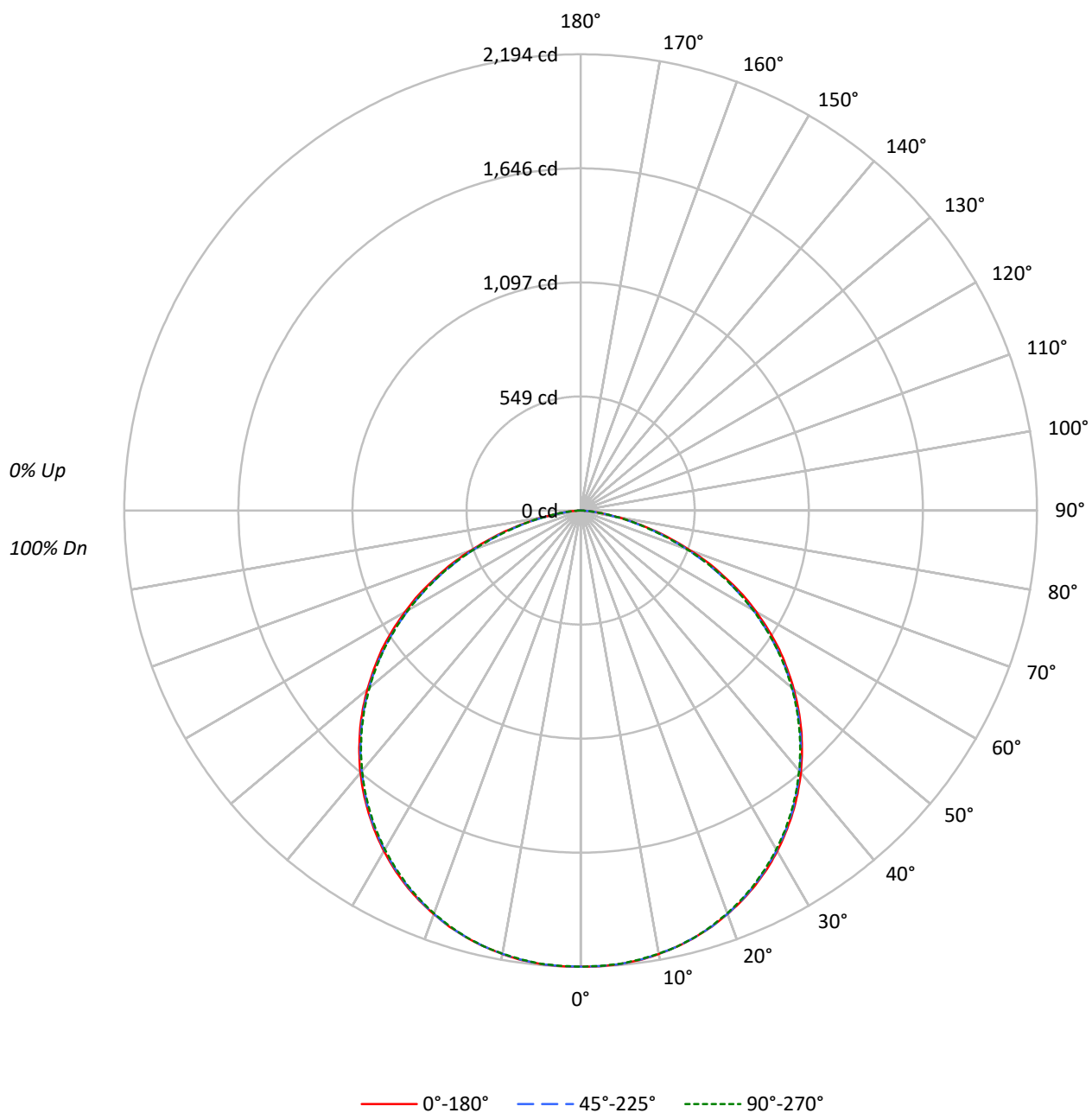
Lumens per Lamp: N/A
Luminaire Lumens: 6199.4 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2951	2951	2951
5°	2957	2957	2955
10°	2959	2958	2957
15°	2960	2959	2959
20°	2957	2956	2951
25°	2951	2946	2941
30°	2938	2930	2924
35°	2919	2911	2901
40°	2893	2875	2871
45°	2856	2839	2830
50°	2802	2781	2773
55°	2736	2697	2694
60°	2622	2575	2575
65°	2453	2395	2403
70°	2208	2139	2133
75°	1853	1780	1772
80°	1354	1287	1341
85°	766	704	716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2856 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	3.4
10°-20°	599.8	9.7
20°-30°	914.5	14.8
30°-40°	1108.0	17.9
40°-50°	1150.9	18.6
50°-60°	1029.6	16.6
60°-70°	750.4	12.1
70°-80°	371.6	6.0
80°-90°	66.4	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°	1722.5	27.8
0°-40°	2830.5	45.7
0°-60°	5011.0	80.8
0°-90°	6199.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6199.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2194	2194	2194	2194	2194	
5°	2190	2190	2190	2190	2188	208
15°	2125	2124	2124	2126	2124	600
25°	1988	1986	1984	1983	1981	916
35°	1777	1775	1772	1769	1766	1112
45°	1501	1498	1492	1489	1488	1157
55°	1166	1158	1150	1150	1148	1039
65°	770	764	752	756	755	764
75°	356	351	342	349	341	380
85°	50	46	46	46	46	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2193.5	2193.5	2193.5	2193.5	2193.5
2.5°	2193.5	2192.7	2192.7	2193.5	2191.9
5°	2189.5	2190.3	2189.5	2189.5	2187.9
7.5°	2180.9	2180.1	2179.3	2180.1	2177.7
10°	2165.9	2165.9	2165.1	2165.9	2164.3
12.5°	2147.8	2147.8	2147.8	2148.6	2147.8
15°	2125.0	2124.2	2124.2	2125.8	2124.2
17.5°	2098.2	2097.4	2097.4	2096.7	2095.1
20°	2065.2	2065.2	2064.4	2063.6	2061.2
22.5°	2029.8	2029.0	2026.6	2026.6	2023.5
25°	1988.0	1985.7	1984.1	1983.3	1981.0
27.5°	1942.4	1939.2	1936.9	1935.3	1932.9
30°	1891.2	1888.1	1885.7	1883.4	1881.8
32.5°	1836.1	1834.6	1830.6	1829.8	1826.7
35°	1777.1	1774.8	1772.4	1769.2	1766.1
37.5°	1714.2	1711.8	1706.3	1704.7	1702.3
40°	1647.3	1644.1	1637.0	1637.0	1634.7
42.5°	1575.6	1572.5	1567.8	1564.6	1563.0
45°	1500.9	1497.7	1492.2	1489.1	1487.5
47.5°	1421.4	1419.0	1412.7	1410.4	1408.0
50°	1338.7	1335.6	1328.5	1326.9	1324.6
52.5°	1252.2	1250.6	1241.1	1240.4	1238.0
55°	1166.4	1157.7	1149.9	1149.9	1148.3
57.5°	1071.9	1065.6	1055.4	1055.4	1053.8
60°	974.3	968.8	957.0	958.6	957.0
62.5°	879.1	867.3	856.3	861.0	857.1
65°	770.5	764.2	752.4	755.6	754.8
67.5°	671.3	659.5	648.5	654.8	651.7
70°	561.2	554.9	543.8	550.1	542.3
72.5°	457.3	451.8	440.7	447.8	440.0
75°	356.5	351.0	342.4	348.7	340.8
77.5°	261.3	257.4	249.5	255.8	257.4
80°	174.7	170.0	166.1	171.6	173.1
82.5°	102.3	99.2	97.6	98.4	102.3
85°	49.6	45.6	45.6	46.4	46.4
87.5°	13.4	11.8	13.4	14.2	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)