

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: P974496

Luminaire Tested: FLR2-24-72-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974496
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-L950-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-72-L950-CA080
Ballast/Driver: -

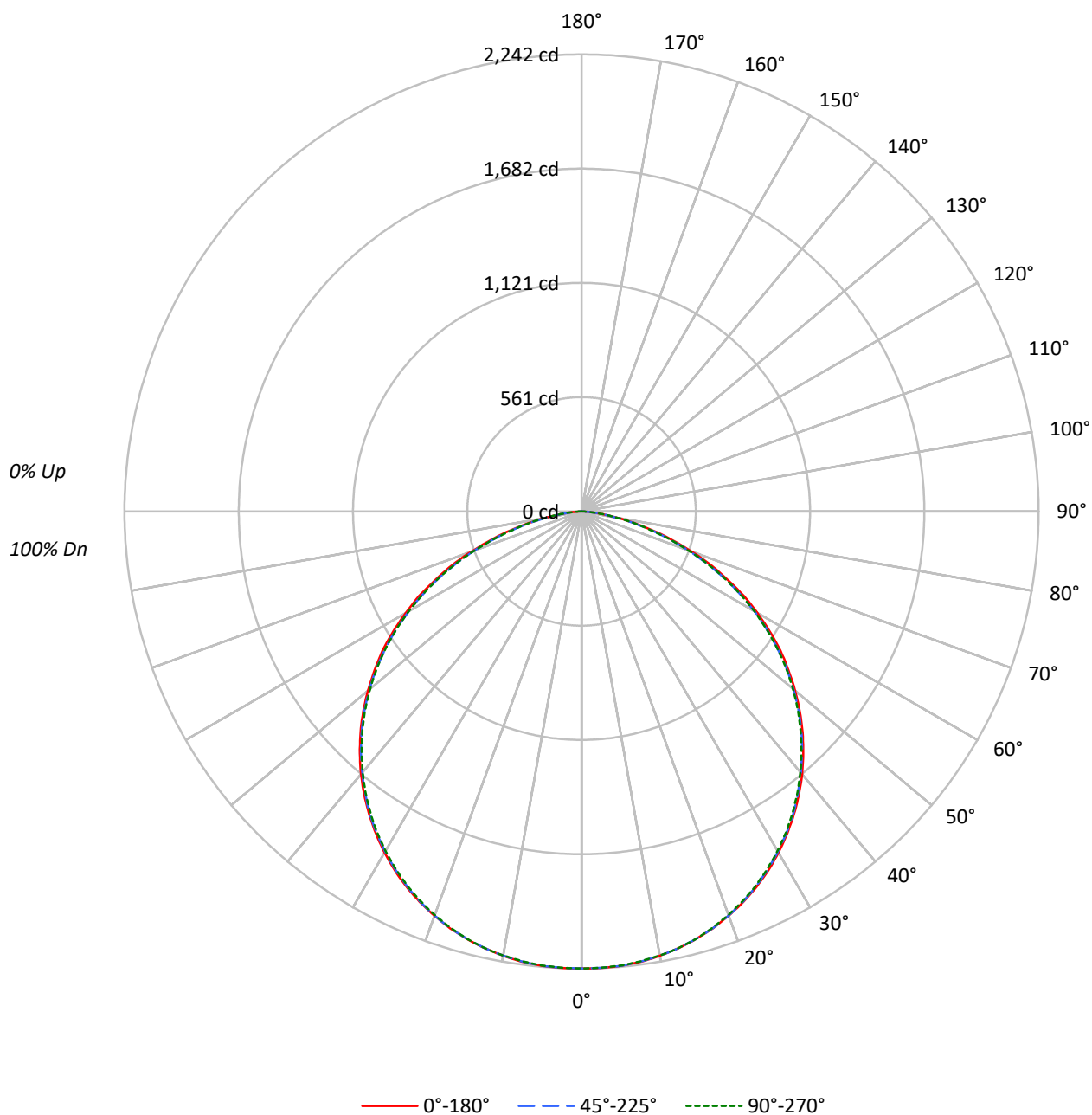
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6335.1 lumens
Efficiency: N/A
Efficacy: 104.0 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

TEST NUMBER: P974496
CATALOG NUMBER: FLR2-24-72-L950-CA080

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°	3016	3016	3016
5°	3022	3022	3020
10°	3024	3023	3022
15°	3025	3024	3024
20°	3022	3021	3016
25°	3016	3010	3005
30°	3003	2994	2988
35°	2983	2975	2964
40°	2957	2938	2934
45°	2918	2902	2892
50°	2864	2842	2833
55°	2796	2756	2753
60°	2679	2632	2632
65°	2507	2448	2456
70°	2256	2186	2180
75°	1894	1819	1810
80°	1383	1315	1371
85°	783	719	733

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2918 cd/sqm

TEST NUMBER: P974496
CATALOG NUMBER: FLR2-24-72-L950-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	3.4
10°-20°	612.9	9.7
20°-30°	934.5	14.8
30°-40°	1132.2	17.9
40°-50°	1176.1	18.6
50°-60°	1052.1	16.6
60°-70°	766.8	12.1
70°-80°	379.7	6.0
80°-90°	67.9	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°	1760.2	27.8
0°-40°	2892.4	45.7
0°-60°	5120.7	80.8
0°-90°	6335.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6335.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2237	2238	2237	2237	2236	213
15°	2172	2171	2171	2172	2171	613
25°	2032	2029	2028	2027	2024	936
35°	1816	1814	1811	1808	1805	1136
45°	1534	1530	1525	1522	1520	1182
55°	1192	1183	1175	1175	1173	1062
65°	787	781	769	772	771	781
75°	364	359	350	356	348	388
85°	51	47	47	48	48	70
90°	0	0	0	0	0	

TEST NUMBER: P974496

CATALOG NUMBER: FLR2-24-72-L950-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2241.5	2241.5	2241.5	2241.5	2241.5
2.5°	2241.5	2240.7	2240.7	2241.5	2239.9
5°	2237.4	2238.2	2237.4	2237.4	2235.8
7.5°	2228.6	2227.8	2227.0	2227.8	2225.4
10°	2213.3	2213.3	2212.5	2213.3	2211.7
12.5°	2194.8	2194.8	2194.8	2195.6	2194.8
15°	2171.5	2170.7	2170.7	2172.3	2170.7
17.5°	2144.1	2143.3	2143.3	2142.5	2140.9
20°	2110.4	2110.4	2109.6	2108.8	2106.3
22.5°	2074.2	2073.4	2071.0	2071.0	2067.7
25°	2031.6	2029.1	2027.5	2026.7	2024.3
27.5°	1984.9	1981.7	1979.3	1977.7	1975.3
30°	1932.6	1929.4	1927.0	1924.6	1923.0
32.5°	1876.3	1874.7	1870.7	1869.9	1866.7
35°	1816.0	1813.6	1811.2	1808.0	1804.8
37.5°	1751.7	1749.3	1743.6	1742.0	1739.6
40°	1683.3	1680.1	1672.9	1672.9	1670.4
42.5°	1610.1	1606.9	1602.1	1598.9	1597.3
45°	1533.7	1530.5	1524.9	1521.7	1520.0
47.5°	1452.5	1450.1	1443.6	1441.2	1438.8
50°	1368.0	1364.8	1357.6	1356.0	1353.6
52.5°	1279.6	1278.0	1268.3	1267.5	1265.1
55°	1191.9	1183.1	1175.0	1175.0	1173.4
57.5°	1095.4	1089.0	1078.5	1078.5	1076.9
60°	995.7	990.0	978.0	979.6	978.0
62.5°	898.4	886.3	875.0	879.9	875.8
65°	787.4	780.9	768.9	772.1	771.3
67.5°	686.0	674.0	662.7	669.1	665.9
70°	573.4	567.0	555.7	562.2	554.1
72.5°	467.3	461.6	450.4	457.6	449.6
75°	364.3	358.7	349.9	356.3	348.2
77.5°	267.0	263.0	254.9	261.4	263.0
80°	178.5	173.7	169.7	175.3	176.9
82.5°	104.6	101.3	99.7	100.5	104.6
85°	50.7	46.6	46.6	47.5	47.5
87.5°	13.7	12.1	13.7	14.5	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)