

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: P974498

Luminaire Tested: FLR2-24-30-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974498
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: FLR2-24-30-L950-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L950-CA125
Ballast/Driver: -

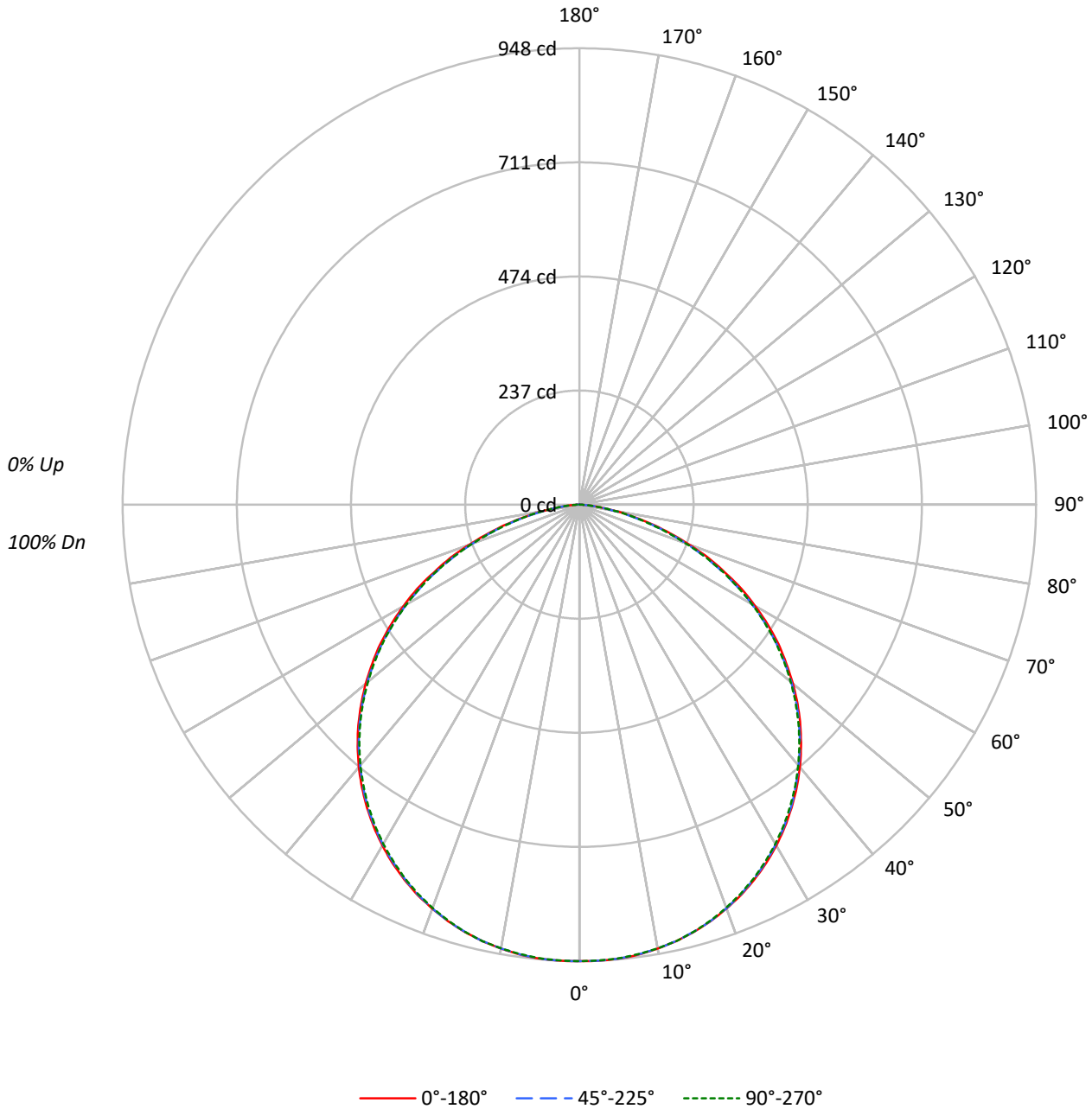
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2680.6 lumens
Efficiency: N/A
Efficacy: 113.1 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): 23.7
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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	1276	1276	1276
5°	1279	1279	1278
10°	1280	1279	1279
15°	1280	1279	1279
20°	1279	1278	1276
25°	1276	1274	1272
30°	1271	1267	1264
35°	1262	1259	1254
40°	1251	1243	1241
45°	1235	1228	1224
50°	1212	1203	1199
55°	1183	1166	1165
60°	1134	1114	1114
65°	1061	1036	1039
70°	954	925	923
75°	802	769	766
80°	586	556	580
85°	330	304	310

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	3.4
10°-20°	259.4	9.7
20°-30°	395.4	14.8
30°-40°	479.1	17.9
40°-50°	497.7	18.6
50°-60°	445.2	16.6
60°-70°	324.5	12.1
70°-80°	160.7	6.0
80°-90°	28.7	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°	744.8	27.8
0°-40°	1223.9	45.7
0°-60°	2166.8	80.8
0°-90°	2680.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	947	947	947	947	946	90
15°	919	918	918	919	918	259
25°	860	859	858	858	857	396
35°	768	767	766	765	764	481
45°	649	648	645	644	643	500
55°	504	501	497	497	496	449
65°	333	330	325	327	326	330
75°	154	152	148	151	147	164
85°	21	20	20	20	20	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.5	948.5	948.5	948.5	948.5
2.5°	948.5	948.1	948.1	948.5	947.8
5°	946.8	947.1	946.8	946.8	946.1
7.5°	943.0	942.7	942.3	942.7	941.7
10°	936.6	936.6	936.2	936.6	935.9
12.5°	928.7	928.7	928.7	929.1	928.7
15°	918.9	918.5	918.5	919.2	918.5
17.5°	907.3	906.9	906.9	906.6	905.9
20°	893.0	893.0	892.7	892.3	891.3
22.5°	877.7	877.3	876.3	876.3	875.0
25°	859.6	858.6	857.9	857.6	856.6
27.5°	839.9	838.5	837.5	836.8	835.8
30°	817.8	816.4	815.4	814.4	813.7
32.5°	794.0	793.3	791.6	791.2	789.9
35°	768.4	767.4	766.4	765.0	763.7
37.5°	741.2	740.2	737.8	737.1	736.1
40°	712.3	710.9	707.9	707.9	706.8
42.5°	681.3	680.0	677.9	676.6	675.9
45°	649.0	647.6	645.2	643.9	643.2
47.5°	614.6	613.6	610.9	609.8	608.8
50°	578.9	577.5	574.5	573.8	572.8
52.5°	541.4	540.8	536.7	536.3	535.3
55°	504.4	500.6	497.2	497.2	496.5
57.5°	463.5	460.8	456.4	456.4	455.7
60°	421.3	418.9	413.8	414.5	413.8
62.5°	380.1	375.0	370.3	372.3	370.6
65°	333.2	330.4	325.3	326.7	326.4
67.5°	290.3	285.2	280.4	283.1	281.8
70°	242.6	239.9	235.2	237.9	234.5
72.5°	197.7	195.3	190.6	193.6	190.2
75°	154.2	151.8	148.0	150.8	147.4
77.5°	113.0	111.3	107.9	110.6	111.3
80°	75.6	73.5	71.8	74.2	74.9
82.5°	44.2	42.9	42.2	42.5	44.2
85°	21.4	19.7	19.7	20.1	20.1
87.5°	5.8	5.1	5.8	6.1	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)