

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: P974418

Luminaire Tested: FLR2-24-30-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974418
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-L850-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-30-L850-CP250
Ballast/Driver: -

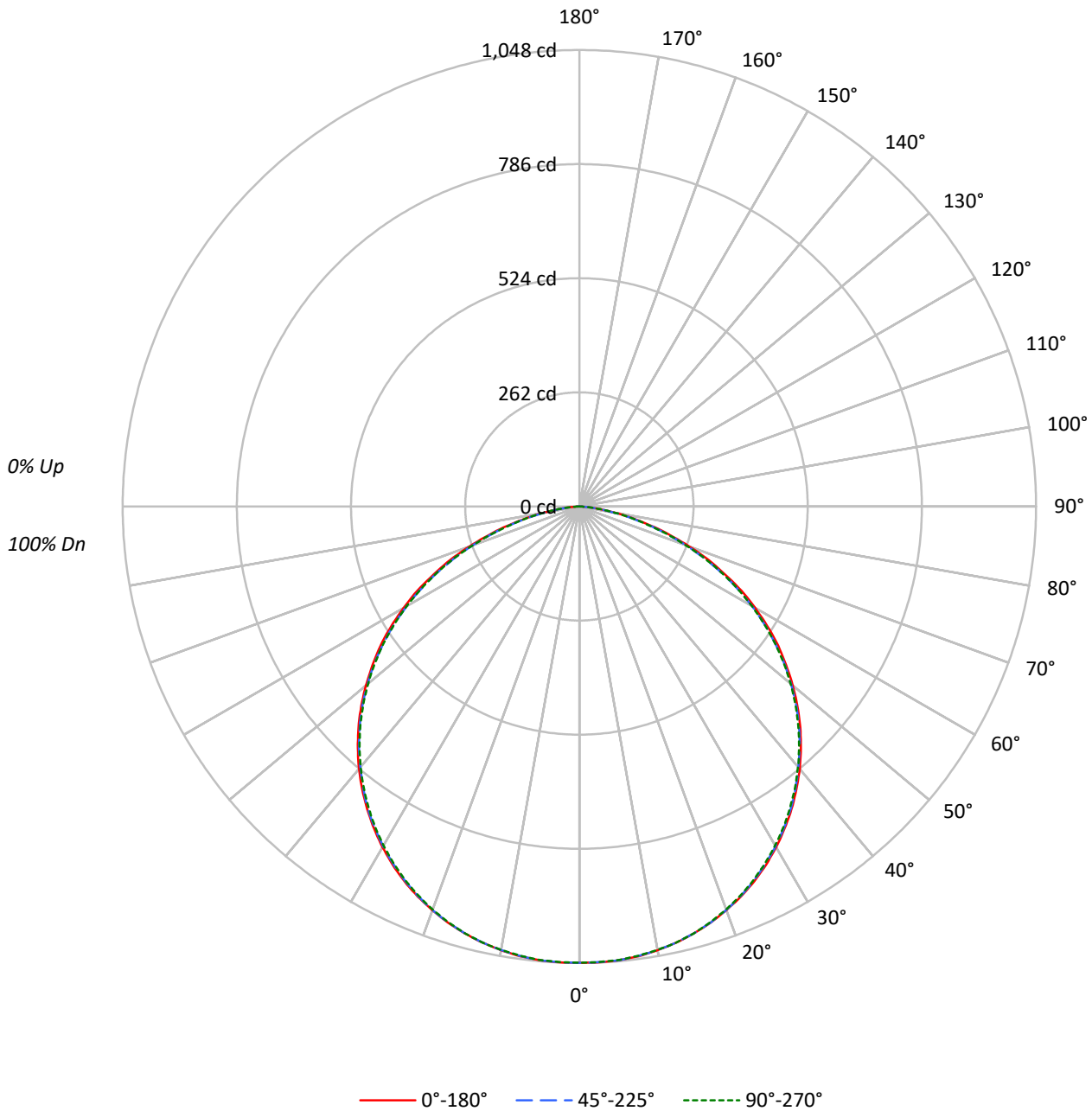
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2961.1 lumens
Efficiency: N/A
Efficacy: 124.9 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°	1410	1410	1410
5°	1412	1412	1411
10°	1413	1413	1412
15°	1414	1413	1413
20°	1412	1412	1410
25°	1410	1407	1405
30°	1403	1399	1396
35°	1394	1391	1385
40°	1382	1373	1371
45°	1364	1356	1352
50°	1338	1328	1324
55°	1307	1288	1287
60°	1252	1230	1230
65°	1172	1144	1148
70°	1054	1022	1019
75°	885	850	846
80°	647	614	641
85°	366	337	343

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1364 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.4
10°-20°	286.5	9.7
20°-30°	436.8	14.8
30°-40°	529.2	17.9
40°-50°	549.7	18.6
50°-60°	491.8	16.6
60°-70°	358.4	12.1
70°-80°	177.5	6.0
80°-90°	31.7	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°	822.7	27.8
0°-40°	1352.0	45.7
0°-60°	2393.4	80.8
0°-90°	2961.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2961.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1046	1046	1046	1046	1045	99
15°	1015	1015	1015	1015	1015	287
25°	950	948	948	947	946	438
35°	849	848	847	845	844	531
45°	717	715	713	711	710	552
55°	557	553	549	549	548	496
65°	368	365	359	361	360	365
75°	170	168	164	166	163	182
85°	24	22	22	22	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.7	1047.7	1047.7	1047.7	1047.7
2.5°	1047.7	1047.3	1047.3	1047.7	1046.9
5°	1045.8	1046.2	1045.8	1045.8	1045.0
7.5°	1041.7	1041.3	1040.9	1041.3	1040.2
10°	1034.5	1034.5	1034.1	1034.5	1033.8
12.5°	1025.9	1025.9	1025.9	1026.2	1025.9
15°	1015.0	1014.6	1014.6	1015.3	1014.6
17.5°	1002.2	1001.8	1001.8	1001.4	1000.7
20°	986.4	986.4	986.0	985.6	984.5
22.5°	969.5	969.1	968.0	968.0	966.5
25°	949.6	948.4	947.7	947.3	946.2
27.5°	927.8	926.3	925.1	924.4	923.2
30°	903.3	901.8	900.7	899.6	898.8
32.5°	877.0	876.3	874.4	874.0	872.5
35°	848.8	847.7	846.6	845.1	843.5
37.5°	818.7	817.6	815.0	814.2	813.1
40°	786.8	785.3	781.9	781.9	780.8
42.5°	752.6	751.1	748.8	747.3	746.6
45°	716.9	715.4	712.7	711.2	710.5
47.5°	678.9	677.8	674.8	673.6	672.5
50°	639.4	637.9	634.5	633.8	632.7
52.5°	598.1	597.3	592.8	592.4	591.3
55°	557.1	553.0	549.2	549.2	548.5
57.5°	512.0	509.0	504.1	504.1	503.3
60°	465.4	462.7	457.1	457.9	457.1
62.5°	419.9	414.3	409.0	411.2	409.4
65°	368.0	365.0	359.4	360.9	360.5
67.5°	320.7	315.0	309.8	312.8	311.3
70°	268.0	265.0	259.8	262.8	259.0
72.5°	218.4	215.8	210.5	213.9	210.1
75°	170.3	167.7	163.5	166.5	162.8
77.5°	124.8	122.9	119.2	122.2	122.9
80°	83.5	81.2	79.3	81.9	82.7
82.5°	48.9	47.4	46.6	47.0	48.9
85°	23.7	21.8	21.8	22.2	22.2
87.5°	6.4	5.6	6.4	6.8	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)