

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: P974459

Luminaire Tested: FLR2-24-35-L950-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974459
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: FLR2-24-35-L950-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-35-L950-CP125
Ballast/Driver: -

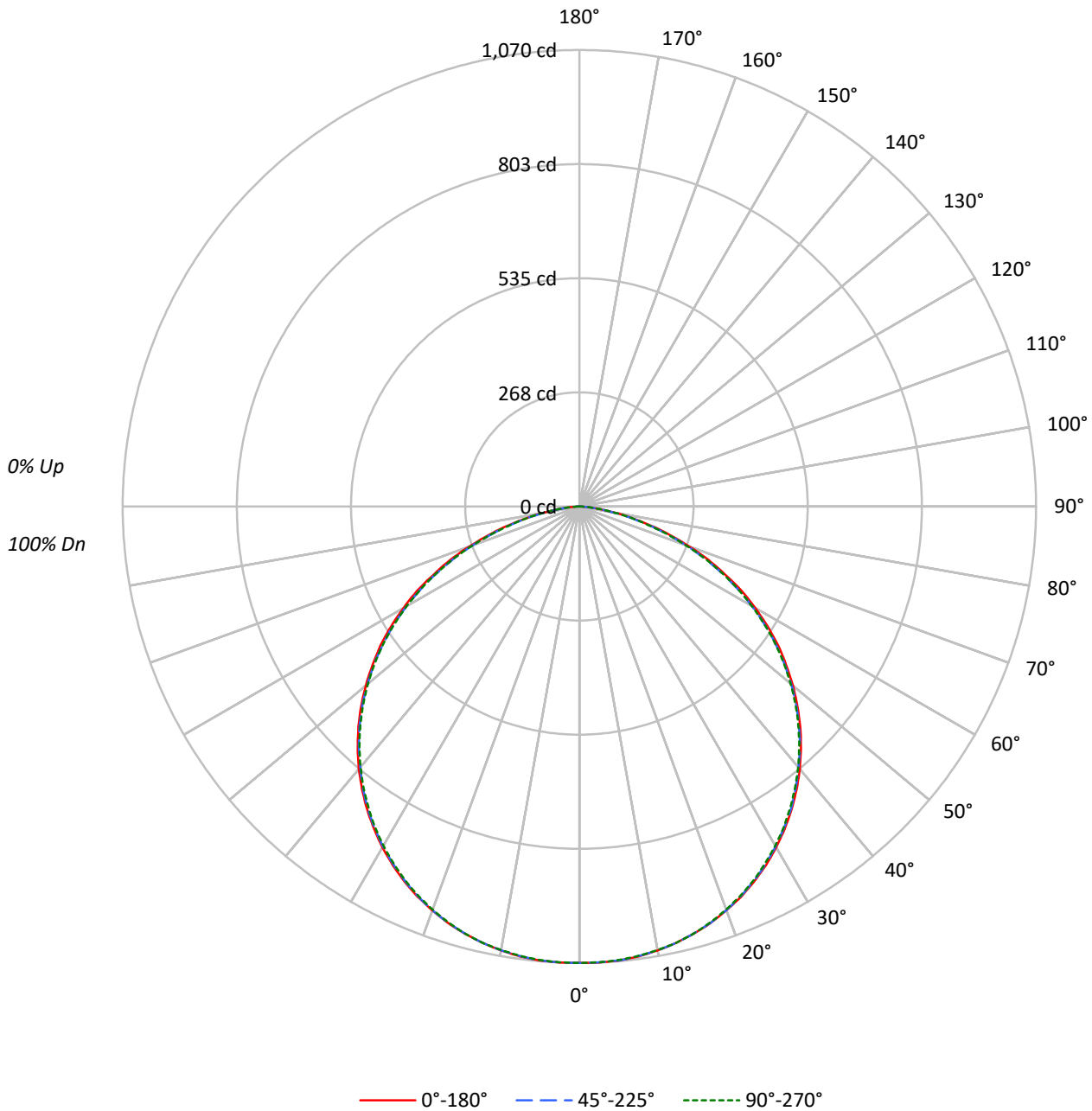
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3024.5 lumens
Efficiency: N/A
Efficacy: 106.5 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): 28.4
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°	1440	1440	1440
5°	1443	1443	1442
10°	1444	1443	1443
15°	1444	1444	1444
20°	1443	1442	1440
25°	1440	1437	1435
30°	1434	1429	1426
35°	1424	1420	1415
40°	1412	1403	1401
45°	1393	1385	1381
50°	1367	1357	1353
55°	1335	1316	1314
60°	1279	1256	1256
65°	1197	1169	1172
70°	1077	1044	1041
75°	904	868	865
80°	660	628	655
85°	374	344	350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1393 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	3.4
10°-20°	292.6	9.7
20°-30°	446.2	14.8
30°-40°	540.6	17.9
40°-50°	561.5	18.6
50°-60°	502.3	16.6
60°-70°	366.1	12.1
70°-80°	181.3	6.0
80°-90°	32.4	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°	840.4	27.8
0°-40°	1380.9	45.7
0°-60°	2444.7	80.8
0°-90°	3024.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1068	1069	1068	1068	1067	102
15°	1037	1036	1036	1037	1036	293
25°	970	969	968	968	966	447
35°	867	866	865	863	862	542
45°	732	731	728	726	726	564
55°	569	565	561	561	560	507
65°	376	373	367	369	368	373
75°	174	171	167	170	166	185
85°	24	22	22	23	23	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1070.1	1070.1	1070.1	1070.1	1070.1
2.5°	1070.1	1069.7	1069.7	1070.1	1069.4
5°	1068.2	1068.6	1068.2	1068.2	1067.4
7.5°	1064.0	1063.6	1063.2	1063.6	1062.5
10°	1056.7	1056.7	1056.3	1056.7	1055.9
12.5°	1047.9	1047.9	1047.9	1048.2	1047.9
15°	1036.7	1036.3	1036.3	1037.1	1036.3
17.5°	1023.7	1023.3	1023.3	1022.9	1022.1
20°	1007.5	1007.5	1007.2	1006.8	1005.6
22.5°	990.3	989.9	988.7	988.7	987.2
25°	969.9	968.8	968.0	967.6	966.5
27.5°	947.6	946.1	945.0	944.2	943.0
30°	922.7	921.2	920.0	918.8	918.1
32.5°	895.8	895.0	893.1	892.7	891.2
35°	867.0	865.9	864.7	863.2	861.6
37.5°	836.3	835.1	832.5	831.7	830.5
40°	803.7	802.1	798.7	798.7	797.5
42.5°	768.7	767.2	764.9	763.3	762.6
45°	732.2	730.7	728.0	726.5	725.7
47.5°	693.5	692.3	689.2	688.1	686.9
50°	653.1	651.6	648.1	647.4	646.2
52.5°	610.9	610.1	605.5	605.1	604.0
55°	569.0	564.8	561.0	561.0	560.2
57.5°	523.0	519.9	514.9	514.9	514.1
60°	475.4	472.7	466.9	467.7	466.9
62.5°	428.9	423.1	417.8	420.1	418.1
65°	375.9	372.8	367.1	368.6	368.2
67.5°	327.5	321.8	316.4	319.5	317.9
70°	273.8	270.7	265.3	268.4	264.6
72.5°	223.1	220.4	215.0	218.5	214.6
75°	173.9	171.3	167.0	170.1	166.3
77.5°	127.5	125.6	121.7	124.8	125.6
80°	85.2	82.9	81.0	83.7	84.5
82.5°	49.9	48.4	47.6	48.0	49.9
85°	24.2	22.3	22.3	22.7	22.7
87.5°	6.5	5.8	6.5	6.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)