

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: P973720

Luminaire Tested: FLR2-22-45-L950-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-45-L950-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

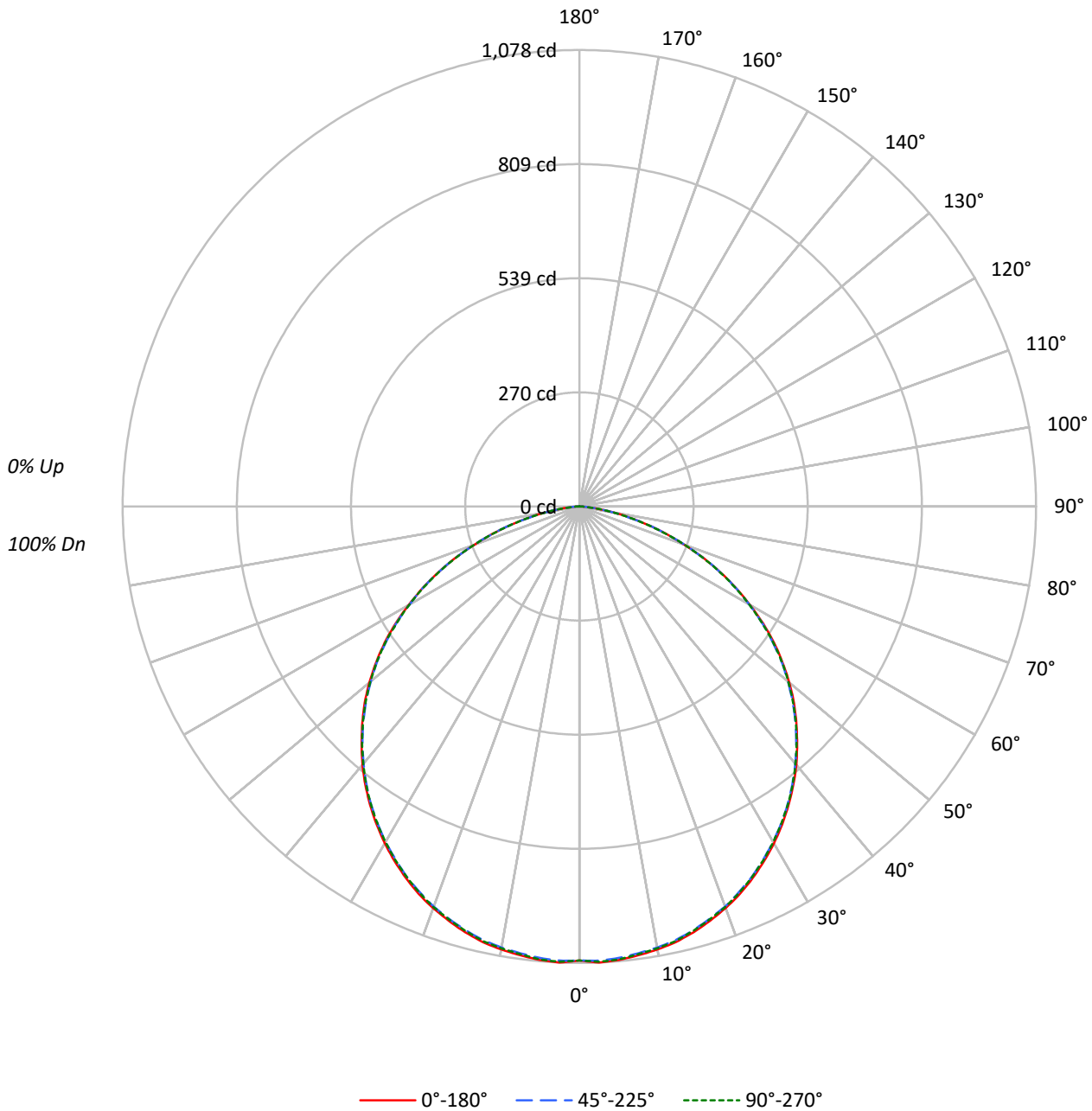
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2998.7 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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				10	0
RW	70	50	30	10	70	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
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2886	2886	2886
5°	2904	2891	2900
10°	2903	2890	2896
15°	2901	2888	2891
20°	2891	2879	2883
25°	2875	2863	2865
30°	2855	2842	2844
35°	2828	2818	2820
40°	2799	2785	2787
45°	2758	2745	2750
50°	2709	2690	2695
55°	2632	2610	2619
60°	2503	2492	2492
65°	2336	2332	2323
70°	2068	2079	2074
75°	1743	1728	1714
80°	1252	1232	1221
85°	655	655	633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2758 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	3.4
10°-20°	292.0	9.7
20°-30°	443.7	14.8
30°-40°	536.3	17.9
40°-50°	556.7	18.6
50°-60°	497.7	16.6
60°-70°	361.9	12.1
70°-80°	177.9	5.9
80°-90°	30.9	1.0
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°	837.3	27.9
0°-40°	1373.6	45.8
0°-60°	2428.1	81.0
0°-90°	2998.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2998.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1075	1062	1070	1066	1074	102
15°	1041	1029	1036	1034	1038	294
25°	968	958	964	962	965	446
35°	861	855	858	858	858	539
45°	725	721	721	723	723	559
55°	561	558	556	558	558	500
65°	367	368	366	366	365	362
75°	168	169	166	167	165	178
85°	21	22	21	21	20	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1072.3	1072.3	1072.3	1072.3	1072.3
2.5°	1078.3	1065.7	1073.6	1069.0	1076.3
5°	1075.0	1062.4	1070.3	1066.3	1073.6
7.5°	1069.0	1056.4	1064.4	1060.4	1066.3
10°	1062.4	1049.1	1057.7	1053.8	1059.7
12.5°	1053.8	1041.2	1049.1	1045.8	1051.1
15°	1041.2	1029.3	1036.5	1033.9	1037.9
17.5°	1025.9	1014.0	1021.3	1019.3	1022.6
20°	1009.4	998.1	1005.4	1003.4	1006.7
22.5°	990.8	978.9	985.5	984.2	986.9
25°	968.3	957.7	964.4	962.4	965.0
27.5°	944.5	934.5	939.8	939.8	941.2
30°	918.7	909.4	914.7	914.7	915.3
32.5°	890.8	883.5	886.9	887.5	887.5
35°	861.0	855.1	857.7	858.4	858.4
37.5°	829.9	823.9	825.9	827.2	827.2
40°	796.8	791.5	792.8	794.1	793.5
42.5°	761.0	757.0	757.7	759.0	759.0
45°	724.6	721.3	721.3	722.6	722.6
47.5°	687.5	684.2	682.9	684.2	684.2
50°	647.1	643.8	642.5	643.8	643.8
52.5°	604.7	601.4	601.4	601.4	602.1
55°	561.0	557.7	556.4	557.7	558.3
57.5°	514.6	513.3	511.3	512.0	510.0
60°	465.0	465.0	463.0	464.3	463.0
62.5°	416.6	417.9	415.9	415.9	414.6
65°	366.9	368.3	366.3	366.3	364.9
67.5°	315.9	317.9	315.3	315.3	313.9
70°	262.9	266.9	264.3	264.9	263.6
72.5°	215.3	217.2	214.6	214.6	213.3
75°	167.6	168.9	166.2	166.9	164.9
77.5°	120.5	122.5	119.9	120.5	119.9
80°	80.8	81.5	79.5	80.1	78.8
82.5°	47.0	47.7	47.0	46.4	45.7
85°	21.2	21.9	21.2	21.2	20.5
87.5°	5.3	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)