

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: P973707

Luminaire Tested: FLR2-22-35-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973707
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: FLR2-22-35-L950-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

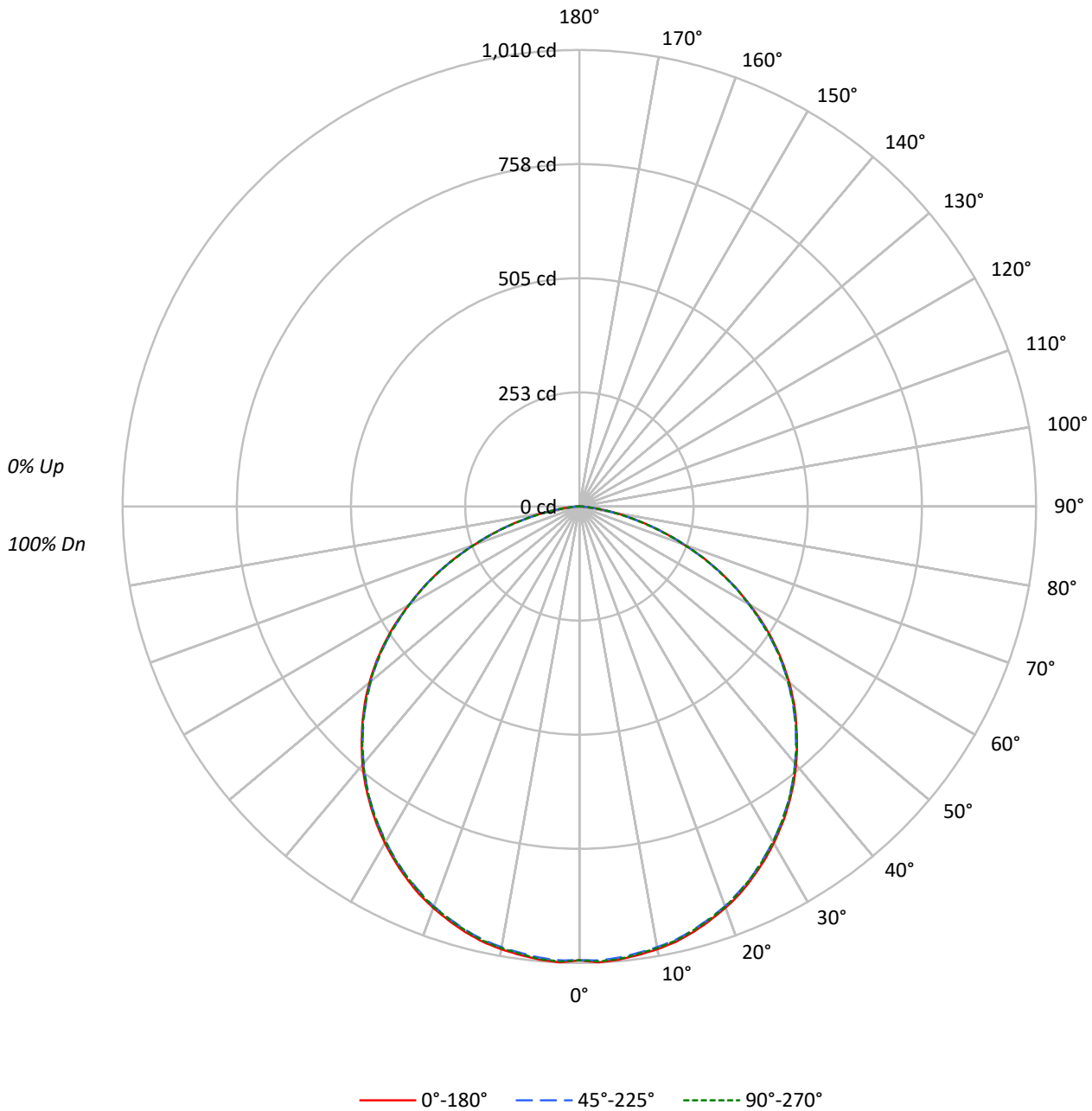
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2807.6 lumens
Efficiency: N/A
Efficacy: 100.6 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): 27.9
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

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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°	2702	2702	2702
5°	2719	2707	2715
10°	2718	2706	2711
15°	2716	2704	2707
20°	2706	2696	2699
25°	2692	2681	2683
30°	2673	2661	2663
35°	2648	2638	2640
40°	2621	2608	2610
45°	2582	2570	2575
50°	2537	2518	2524
55°	2464	2444	2453
60°	2343	2333	2333
65°	2187	2183	2176
70°	1937	1947	1942
75°	1631	1619	1605
80°	1173	1153	1144
85°	611	611	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2582 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.4
10°-20°	273.4	9.7
20°-30°	415.5	14.8
30°-40°	502.2	17.9
40°-50°	521.2	18.6
50°-60°	466.0	16.6
60°-70°	338.8	12.1
70°-80°	166.6	5.9
80°-90°	28.9	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°	783.9	27.9
0°-40°	1286.1	45.8
0°-60°	2273.3	81.0
0°-90°	2807.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1006	995	1002	998	1005	96
15°	975	964	970	968	972	275
25°	907	897	903	901	904	418
35°	806	801	803	804	804	504
45°	678	675	675	677	677	523
55°	525	522	521	522	523	468
65°	344	345	343	343	342	339
75°	157	158	156	156	154	167
85°	20	20	20	20	19	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.0	1004.0	1004.0	1004.0	1004.0
2.5°	1009.6	997.8	1005.2	1000.9	1007.7
5°	1006.5	994.7	1002.1	998.4	1005.2
7.5°	1000.9	989.1	996.5	992.8	998.4
10°	994.7	982.3	990.3	986.6	992.2
12.5°	986.6	974.8	982.3	979.2	984.1
15°	974.8	963.7	970.5	968.0	971.7
17.5°	960.6	949.4	956.2	954.4	957.5
20°	945.1	934.5	941.3	939.5	942.6
22.5°	927.7	916.5	922.7	921.5	924.0
25°	906.6	896.7	902.9	901.0	903.5
27.5°	884.3	875.0	880.0	880.0	881.2
30°	860.1	851.4	856.4	856.4	857.0
32.5°	834.1	827.2	830.3	831.0	831.0
35°	806.2	800.6	803.1	803.7	803.7
37.5°	777.0	771.4	773.3	774.5	774.5
40°	746.0	741.0	742.3	743.5	742.9
42.5°	712.5	708.8	709.4	710.7	710.7
45°	678.4	675.3	675.3	676.6	676.6
47.5°	643.7	640.6	639.3	640.6	640.6
50°	605.9	602.8	601.5	602.8	602.8
52.5°	566.2	563.1	563.1	563.1	563.7
55°	525.2	522.1	520.9	522.1	522.8
57.5°	481.8	480.6	478.7	479.4	477.5
60°	435.3	435.3	433.5	434.7	433.5
62.5°	390.1	391.3	389.4	389.4	388.2
65°	343.5	344.8	342.9	342.9	341.7
67.5°	295.8	297.7	295.2	295.2	293.9
70°	246.2	249.9	247.4	248.0	246.8
72.5°	201.5	203.4	200.9	200.9	199.7
75°	156.9	158.1	155.7	156.3	154.4
77.5°	112.9	114.7	112.2	112.9	112.2
80°	75.7	76.3	74.4	75.0	73.8
82.5°	44.0	44.6	44.0	43.4	42.8
85°	19.8	20.5	19.8	19.8	19.2
87.5°	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)