

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: P973715

Luminaire Tested: FLR2-22-35-L950-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973715
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

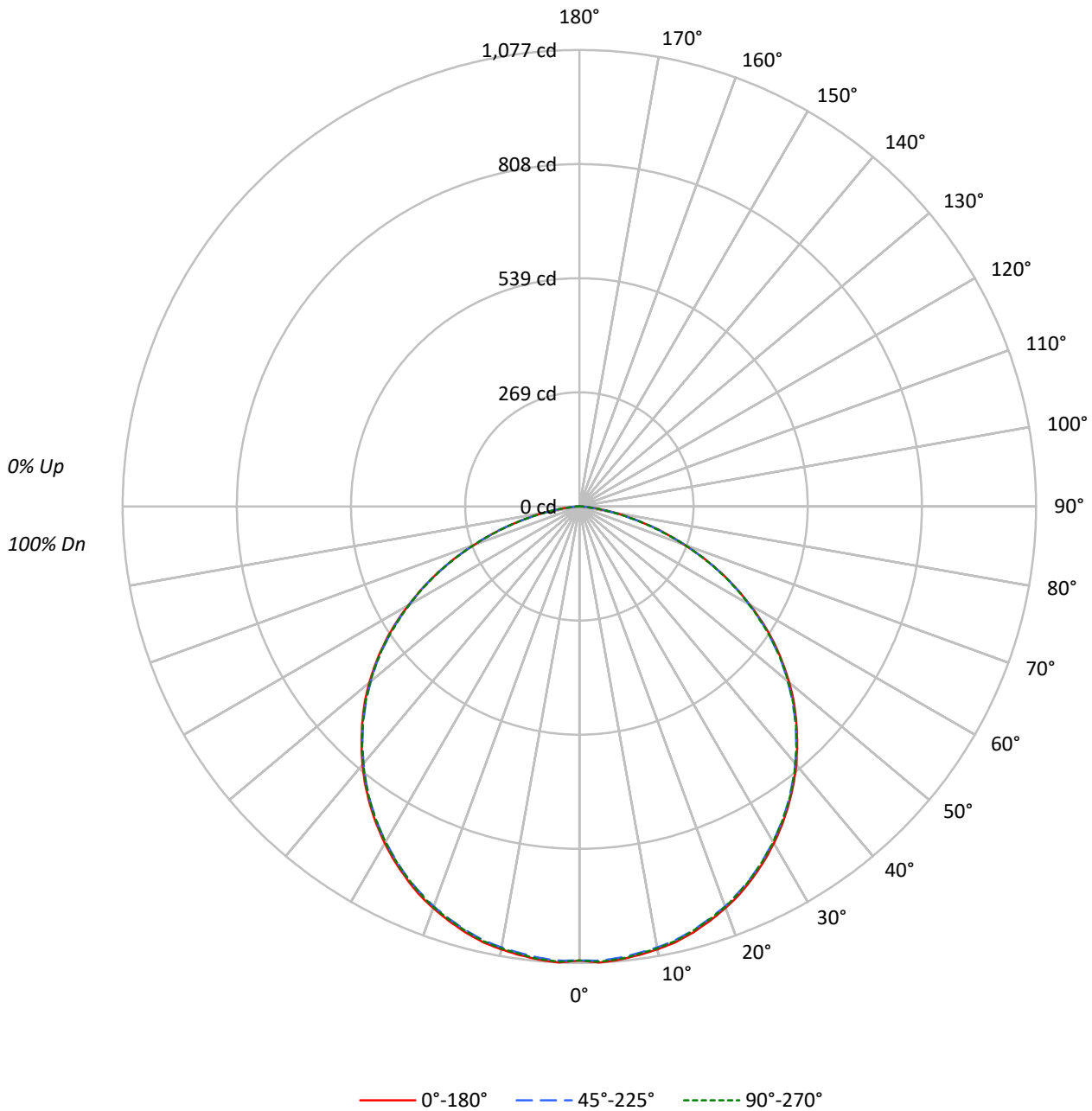
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2995.5 lumens
Efficiency: N/A
Efficacy: 107.4 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										
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2883	2883	2883
5°	2901	2888	2897
10°	2900	2887	2893
15°	2898	2885	2888
20°	2887	2876	2880
25°	2872	2860	2862
30°	2852	2839	2841
35°	2825	2815	2817
40°	2796	2782	2784
45°	2755	2742	2747
50°	2706	2687	2692
55°	2629	2608	2616
60°	2500	2489	2489
65°	2334	2330	2322
70°	2067	2077	2072
75°	1740	1727	1712
80°	1251	1230	1220
85°	655	655	633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.4
10°-20°	291.7	9.7
20°-30°	443.3	14.8
30°-40°	535.8	17.9
40°-50°	556.1	18.6
50°-60°	497.2	16.6
60°-70°	361.5	12.1
70°-80°	177.8	5.9
80°-90°	30.8	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°	836.4	27.9
0°-40°	1372.2	45.8
0°-60°	2425.5	81.0
0°-90°	2995.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1074	1061	1069	1065	1072	102
15°	1040	1028	1035	1033	1037	293
25°	967	957	963	961	964	446
35°	860	854	857	858	858	538
45°	724	720	720	722	722	558
55°	560	557	556	557	558	500
65°	366	368	366	366	365	362
75°	167	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°	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1077.1	1064.5	1072.5	1067.8	1075.1
5°	1073.8	1061.2	1069.2	1065.2	1072.5
7.5°	1067.8	1055.3	1063.2	1059.2	1065.2
10°	1061.2	1048.0	1056.6	1052.6	1058.6
12.5°	1052.6	1040.1	1048.0	1044.7	1050.0
15°	1040.1	1028.2	1035.4	1032.8	1036.8
17.5°	1024.8	1012.9	1020.2	1018.2	1021.5
20°	1008.3	997.1	1004.3	1002.3	1005.7
22.5°	989.8	977.9	984.5	983.2	985.8
25°	967.3	956.7	963.3	961.3	964.0
27.5°	943.5	933.5	938.8	938.8	940.2
30°	917.7	908.4	913.7	913.7	914.4
32.5°	889.9	882.6	885.9	886.6	886.6
35°	860.1	854.1	856.8	857.5	857.5
37.5°	829.0	823.1	825.0	826.4	826.4
40°	795.9	790.6	792.0	793.3	792.6
42.5°	760.2	756.2	756.9	758.2	758.2
45°	723.8	720.5	720.5	721.8	721.8
47.5°	686.8	683.4	682.1	683.4	683.4
50°	646.4	643.1	641.8	643.1	643.1
52.5°	604.1	600.7	600.7	600.7	601.4
55°	560.4	557.1	555.8	557.1	557.7
57.5°	514.1	512.8	510.8	511.4	509.4
60°	464.5	464.5	462.5	463.8	462.5
62.5°	416.2	417.5	415.5	415.5	414.2
65°	366.5	367.9	365.9	365.9	364.6
67.5°	315.6	317.6	314.9	314.9	313.6
70°	262.7	266.6	264.0	264.6	263.3
72.5°	215.0	217.0	214.4	214.4	213.0
75°	167.4	168.7	166.1	166.7	164.7
77.5°	120.4	122.4	119.8	120.4	119.8
80°	80.7	81.4	79.4	80.1	78.7
82.5°	47.0	47.6	47.0	46.3	45.7
85°	21.2	21.8	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)