

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: P973608

Luminaire Tested: FLR2-22-45-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973608
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-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

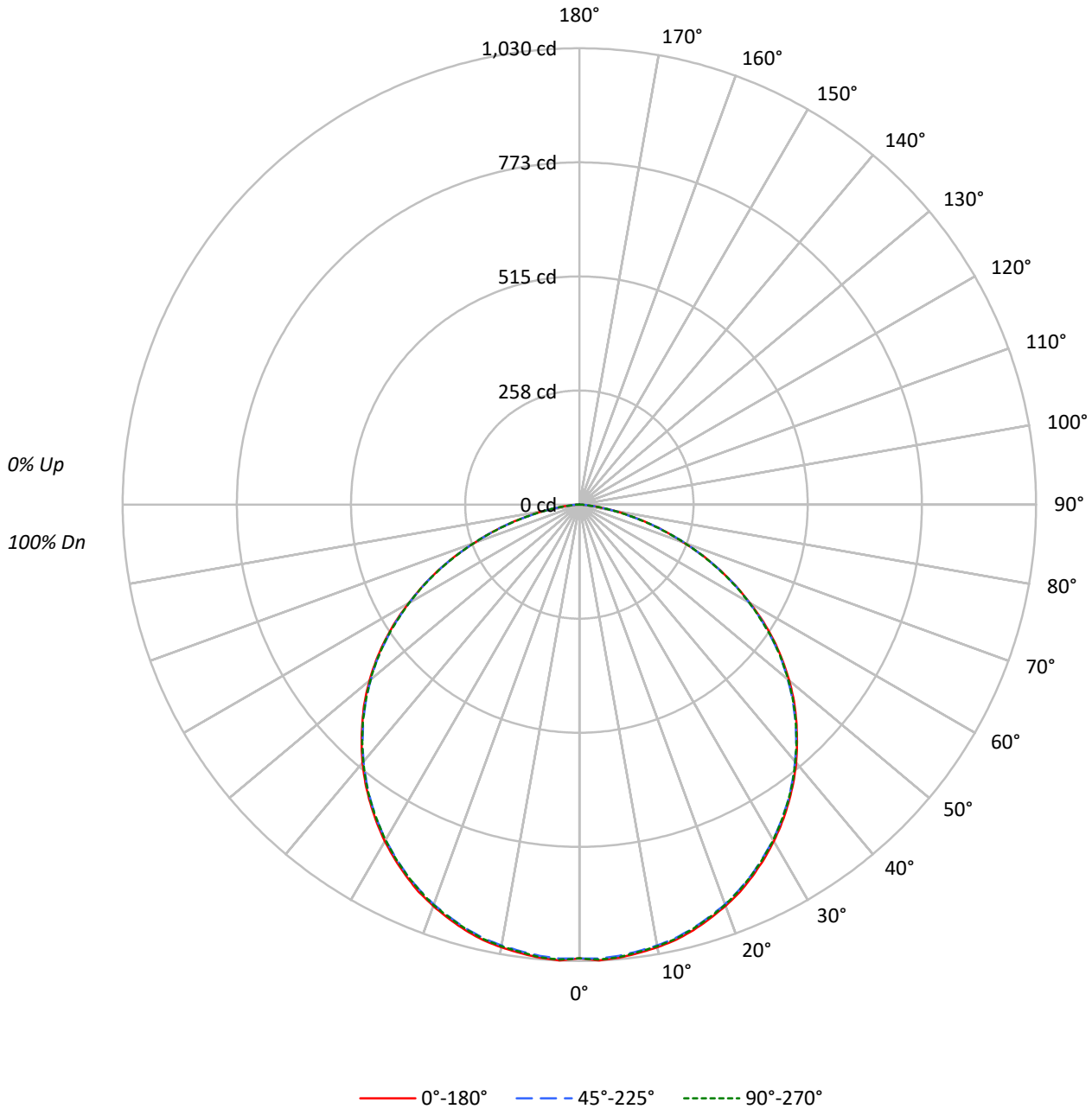
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2863.9 lumens
Efficiency: N/A
Efficacy: 79.3 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°	2756	2756	2756
5°	2773	2761	2770
10°	2772	2760	2766
15°	2770	2758	2761
20°	2761	2750	2753
25°	2746	2735	2736
30°	2726	2715	2716
35°	2701	2691	2693
40°	2673	2660	2662
45°	2633	2622	2626
50°	2587	2569	2574
55°	2514	2493	2502
60°	2390	2380	2380
65°	2231	2227	2219
70°	1976	1986	1981
75°	1664	1651	1638
80°	1196	1176	1167
85°	624	624	605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2633 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	3.4
10°-20°	278.9	9.7
20°-30°	423.8	14.8
30°-40°	512.2	17.9
40°-50°	531.7	18.6
50°-60°	475.3	16.6
60°-70°	345.6	12.1
70°-80°	169.9	5.9
80°-90°	29.5	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°	799.7	27.9
0°-40°	1311.9	45.8
0°-60°	2318.9	81.0
0°-90°	2863.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2863.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1027	1015	1022	1018	1025	98
15°	994	983	990	987	991	281
25°	925	915	921	919	922	426
35°	822	817	819	820	820	514
45°	692	689	689	690	690	534
55°	536	533	531	533	533	478
65°	350	352	350	350	348	346
75°	160	161	159	159	158	170
85°	20	21	20	20	20	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.1	1024.1	1024.1	1024.1	1024.1
2.5°	1029.8	1017.8	1025.4	1021.0	1027.9
5°	1026.6	1014.6	1022.2	1018.4	1025.4
7.5°	1021.0	1008.9	1016.5	1012.7	1018.4
10°	1014.6	1002.0	1010.2	1006.4	1012.1
12.5°	1006.4	994.4	1002.0	998.8	1003.9
15°	994.4	983.0	990.0	987.4	991.2
17.5°	979.8	968.5	975.4	973.5	976.7
20°	964.0	953.3	960.2	958.3	961.5
22.5°	946.3	934.9	941.3	940.0	942.5
25°	924.8	914.7	921.0	919.1	921.6
27.5°	902.0	892.5	897.6	897.6	898.9
30°	877.4	868.5	873.6	873.6	874.2
32.5°	850.8	843.8	847.0	847.6	847.6
35°	822.3	816.6	819.2	819.8	819.8
37.5°	792.6	786.9	788.8	790.1	790.1
40°	761.0	755.9	757.2	758.4	757.8
42.5°	726.8	723.0	723.7	724.9	724.9
45°	692.0	688.9	688.9	690.1	690.1
47.5°	656.6	653.4	652.2	653.4	653.4
50°	618.0	614.8	613.6	614.8	614.8
52.5°	577.5	574.4	574.4	574.4	575.0
55°	535.8	532.6	531.4	532.6	533.2
57.5°	491.5	490.2	488.3	489.0	487.1
60°	444.1	444.1	442.2	443.4	442.2
62.5°	397.9	399.1	397.2	397.2	396.0
65°	350.4	351.7	349.8	349.8	348.5
67.5°	301.7	303.6	301.1	301.1	299.8
70°	251.1	254.9	252.4	253.0	251.8
72.5°	205.6	207.5	204.9	204.9	203.7
75°	160.0	161.3	158.8	159.4	157.5
77.5°	115.1	117.0	114.5	115.1	114.5
80°	77.2	77.8	75.9	76.5	75.3
82.5°	44.9	45.5	44.9	44.3	43.6
85°	20.2	20.9	20.2	20.2	19.6
87.5°	5.1	5.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)