

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: P974273

Luminaire Tested: FLR2-24-20-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974273
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: FLR2-24-20-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L935-CA125
Ballast/Driver: -

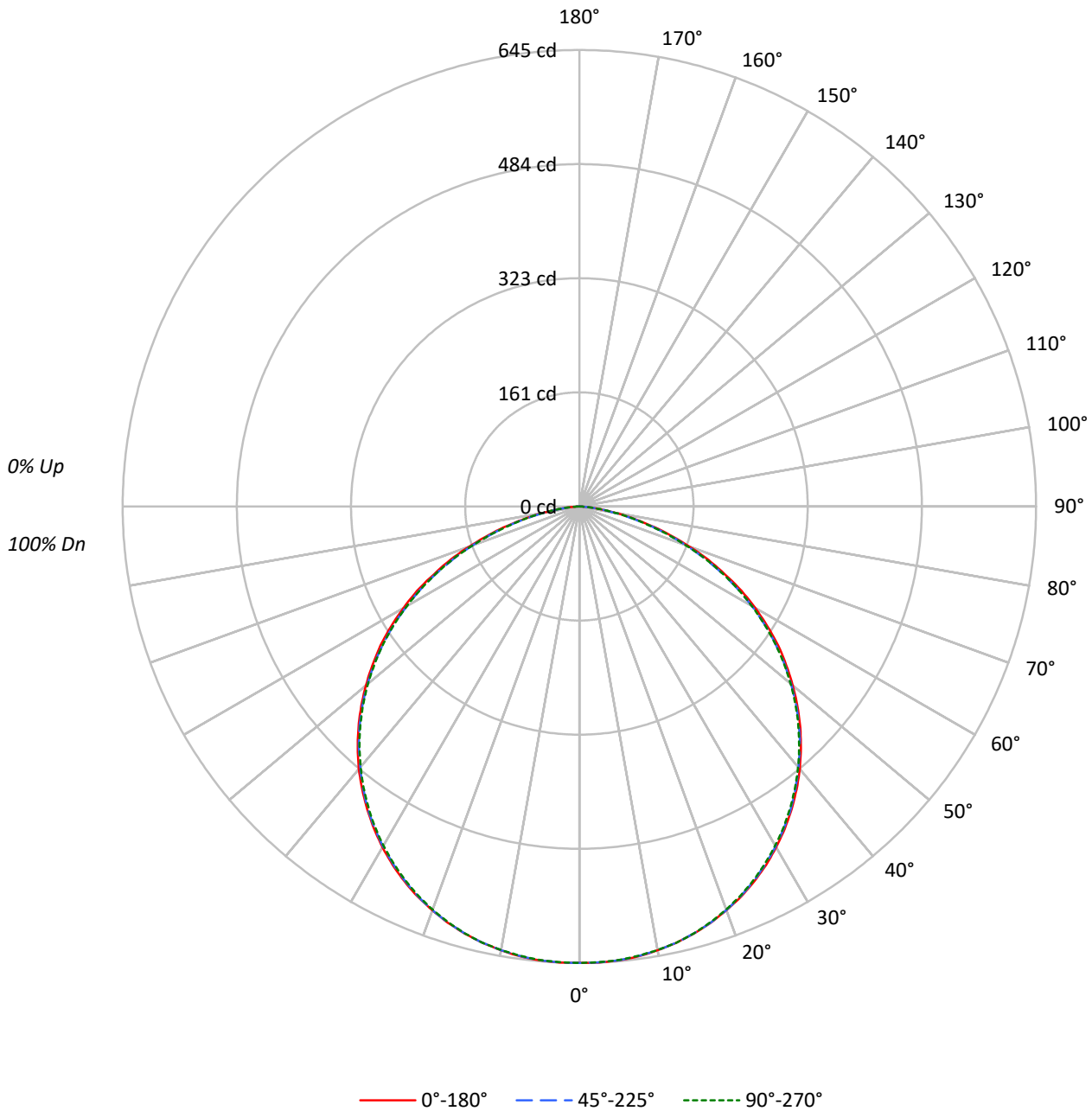
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1822.8 lumens
Efficiency: N/A
Efficacy: 109.2 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): 16.7
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	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85																												
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51																												
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44																												
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38																												
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34																												
8	61	47	39	33	59	47	38	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	39	33	29	27																												
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	868	868	868
5°	870	870	869
10°	870	870	869
15°	870	870	870
20°	869	869	868
25°	868	866	865
30°	864	861	860
35°	858	856	853
40°	851	845	844
45°	840	835	832
50°	824	818	815
55°	805	793	792
60°	771	757	757
65°	721	704	706
70°	649	629	627
75°	545	523	521
80°	398	378	394
85°	225	207	211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 840 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.4
10°-20°	176.4	9.7
20°-30°	268.9	14.8
30°-40°	325.8	17.9
40°-50°	338.4	18.6
50°-60°	302.7	16.6
60°-70°	220.6	12.1
70°-80°	109.3	6.0
80°-90°	19.5	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°	506.5	27.8
0°-40°	832.3	45.7
0°-60°	1473.4	80.8
0°-90°	1822.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	644	644	644	644	643	61
15°	625	625	625	625	625	176
25°	585	584	583	583	582	269
35°	522	522	521	520	519	327
45°	441	440	439	438	437	340
55°	343	340	338	338	338	306
65°	227	225	221	222	222	225
75°	105	103	101	102	100	112
85°	15	13	13	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	645.0	645.0	645.0	645.0	645.0
2.5°	645.0	644.7	644.7	645.0	644.5
5°	643.8	644.0	643.8	643.8	643.3
7.5°	641.3	641.0	640.8	641.0	640.3
10°	636.9	636.9	636.6	636.9	636.4
12.5°	631.5	631.5	631.5	631.8	631.5
15°	624.8	624.6	624.6	625.1	624.6
17.5°	617.0	616.7	616.7	616.5	616.0
20°	607.2	607.2	607.0	606.8	606.1
22.5°	596.8	596.6	595.9	595.9	595.0
25°	584.6	583.9	583.4	583.2	582.5
27.5°	571.1	570.2	569.5	569.0	568.4
30°	556.1	555.2	554.5	553.8	553.3
32.5°	539.9	539.4	538.3	538.0	537.1
35°	522.5	521.8	521.1	520.2	519.3
37.5°	504.0	503.3	501.7	501.2	500.6
40°	484.4	483.4	481.3	481.3	480.6
42.5°	463.3	462.4	461.0	460.1	459.6
45°	441.3	440.4	438.8	437.8	437.4
47.5°	417.9	417.2	415.4	414.7	414.0
50°	393.6	392.7	390.6	390.2	389.5
52.5°	368.2	367.7	364.9	364.7	364.0
55°	343.0	340.4	338.1	338.1	337.6
57.5°	315.2	313.3	310.3	310.3	309.9
60°	286.5	284.9	281.4	281.9	281.4
62.5°	258.5	255.0	251.8	253.2	252.0
65°	226.6	224.7	221.2	222.2	221.9
67.5°	197.4	193.9	190.7	192.5	191.6
70°	165.0	163.1	159.9	161.8	159.4
72.5°	134.5	132.8	129.6	131.7	129.4
75°	104.8	103.2	100.7	102.5	100.2
77.5°	76.8	75.7	73.4	75.2	75.7
80°	51.4	50.0	48.8	50.4	50.9
82.5°	30.1	29.2	28.7	28.9	30.1
85°	14.6	13.4	13.4	13.7	13.7
87.5°	3.9	3.5	3.9	4.2	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)