

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: P974497

Luminaire Tested: FLR2-24-20-L950-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974497  
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-L950-CA125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-20-L950-CA125  
Ballast/Driver: -

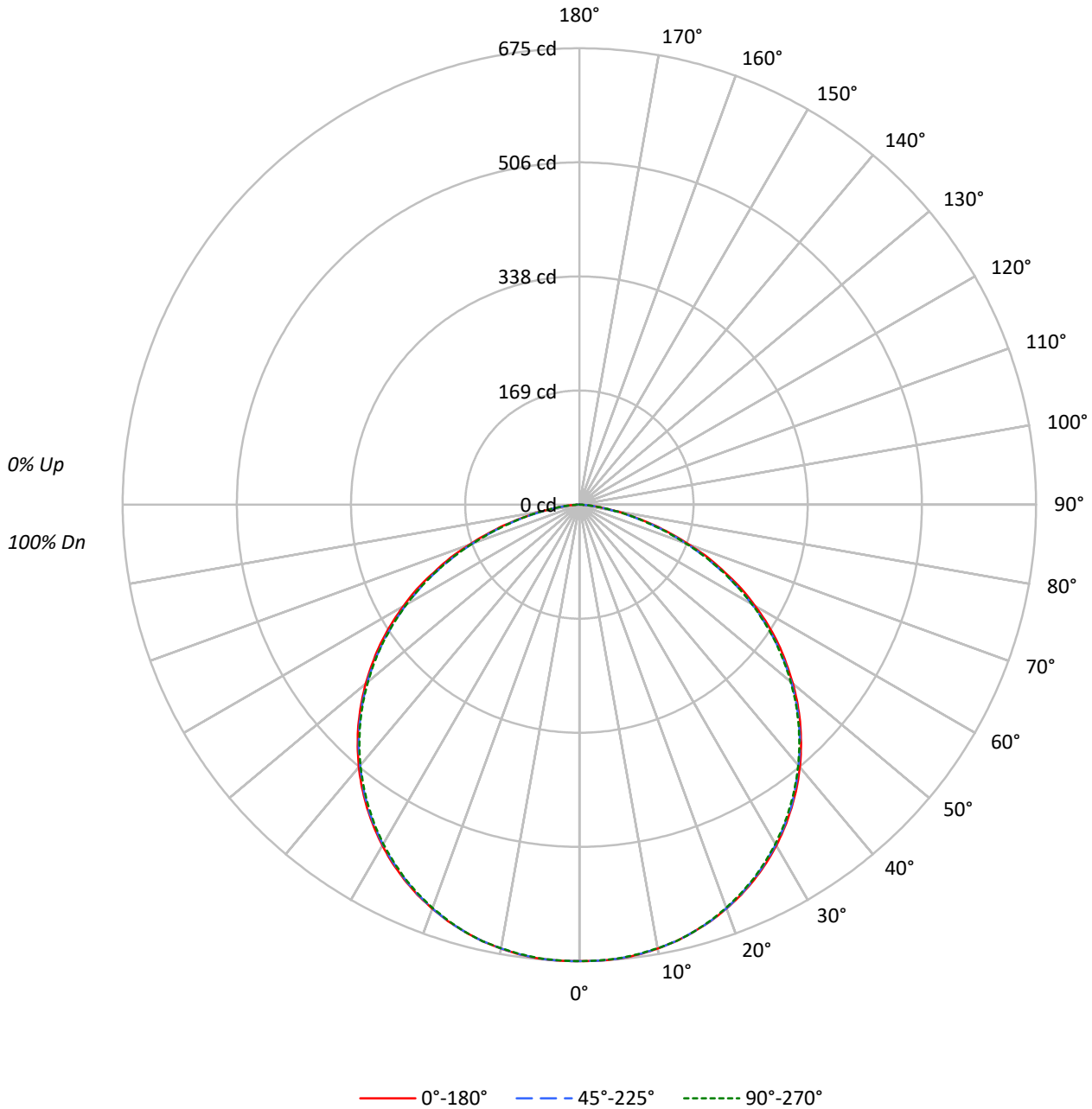
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1908.6 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

TEST NUMBER: P974497  
CATALOG NUMBER: FLR2-24-20-L950-CA125

### Luminous Intensity Polar Plot





TEST NUMBER: P974497  
 CATALOG NUMBER: FLR2-24-20-L950-CA125

**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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38						38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	38	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	39	33	29	27						27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25						25														

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	909	909	909
5°	910	910	910
10°	911	911	910
15°	911	911	911
20°	910	910	909
25°	909	907	905
30°	905	902	900
35°	899	896	893
40°	891	885	884
45°	879	874	871
50°	863	856	854
55°	842	830	829
60°	807	793	793
65°	755	737	740
70°	680	659	657
75°	571	548	545
80°	417	396	413
85°	236	218	221

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 879 cd/sqm



TEST NUMBER: P974497  
 CATALOG NUMBER: FLR2-24-20-L950-CA125

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	3.4
10°-20°	184.7	9.7
20°-30°	281.5	14.8
30°-40°	341.1	17.9
40°-50°	354.3	18.6
50°-60°	317.0	16.6
60°-70°	231.0	12.1
70°-80°	114.4	6.0
80°-90°	20.4	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°	530.3	27.8
0°-40°	871.4	45.7
0°-60°	1542.7	80.8
0°-90°	1908.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1908.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	674	674	674	674	674	64
15°	654	654	654	654	654	185
25°	612	611	611	611	610	282
35°	547	546	546	545	544	342
45°	462	461	459	458	458	356
55°	359	356	354	354	354	320
65°	237	235	232	233	232	235
75°	110	108	105	107	105	117
85°	15	14	14	14	14	21
90°	0	0	0	0	0	



TEST NUMBER: P974497  
 CATALOG NUMBER: FLR2-24-20-L950-CA125

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	675.3	675.3	675.3	675.3	675.3
2.5°	675.3	675.1	675.1	675.3	674.8
5°	674.1	674.3	674.1	674.1	673.6
7.5°	671.4	671.2	670.9	671.2	670.5
10°	666.8	666.8	666.6	666.8	666.3
12.5°	661.3	661.3	661.3	661.5	661.3
15°	654.2	654.0	654.0	654.5	654.0
17.5°	646.0	645.7	645.7	645.5	645.0
20°	635.8	635.8	635.6	635.3	634.6
22.5°	624.9	624.7	623.9	623.9	623.0
25°	612.1	611.3	610.9	610.6	609.9
27.5°	598.0	597.0	596.3	595.8	595.1
30°	582.3	581.3	580.6	579.8	579.4
32.5°	565.3	564.8	563.6	563.4	562.4
35°	547.1	546.4	545.7	544.7	543.7
37.5°	527.7	527.0	525.3	524.8	524.1
40°	507.1	506.2	504.0	504.0	503.3
42.5°	485.1	484.1	482.7	481.7	481.2
45°	462.1	461.1	459.4	458.4	458.0
47.5°	437.6	436.9	434.9	434.2	433.5
50°	412.2	411.2	409.0	408.5	407.8
52.5°	385.5	385.0	382.1	381.9	381.1
55°	359.1	356.4	354.0	354.0	353.5
57.5°	330.0	328.1	324.9	324.9	324.4
60°	300.0	298.3	294.6	295.1	294.6
62.5°	270.7	267.0	263.6	265.1	263.9
65°	237.2	235.3	231.6	232.6	232.4
67.5°	206.7	203.1	199.7	201.6	200.6
70°	172.8	170.8	167.4	169.4	166.9
72.5°	140.8	139.1	135.7	137.9	135.4
75°	109.8	108.1	105.4	107.3	104.9
77.5°	80.4	79.2	76.8	78.7	79.2
80°	53.8	52.3	51.1	52.8	53.3
82.5°	31.5	30.5	30.0	30.3	31.5
85°	15.3	14.1	14.1	14.3	14.3
87.5°	4.1	3.6	4.1	4.4	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)