

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: P974481

Luminaire Tested: FLR2-24-20-L950-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974481  
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-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-20-L950-CP375  
Ballast/Driver: -

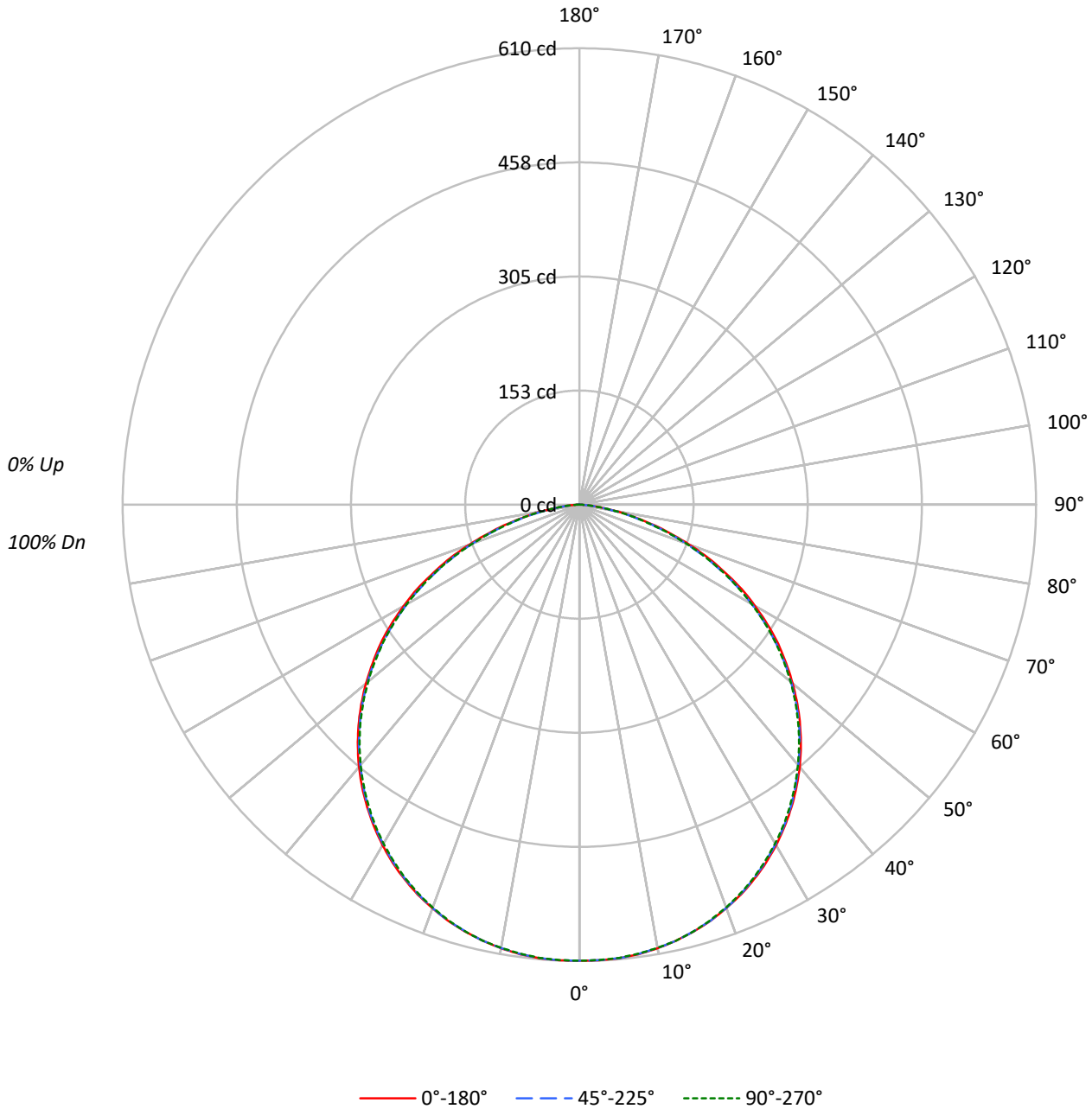
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1723.2 lumens  
Efficiency: N/A  
Efficacy: 103.2 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				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	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°	820	820	820
5°	822	822	821
10°	823	822	822
15°	823	823	823
20°	822	822	820
25°	820	819	818
30°	817	814	813
35°	811	809	806
40°	804	799	798
45°	794	789	787
50°	779	773	771
55°	761	750	749
60°	729	716	716
65°	682	666	668
70°	614	595	593
75°	515	495	492
80°	377	358	373
85°	213	196	199

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 794 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.9	3.4
10°-20°	166.7	9.7
20°-30°	254.2	14.8
30°-40°	308.0	17.9
40°-50°	319.9	18.6
50°-60°	286.2	16.6
60°-70°	208.6	12.1
70°-80°	103.3	6.0
80°-90°	18.5	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°	478.8	27.8
0°-40°	786.8	45.7
0°-60°	1392.9	80.8
0°-90°	1723.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1723.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	609	609	609	609	608	58
15°	591	590	590	591	590	167
25°	553	552	552	551	551	255
35°	494	493	493	492	491	309
45°	417	416	415	414	414	322
55°	324	322	320	320	319	289
65°	214	212	209	210	210	212
75°	99	98	95	97	95	106
85°	14	13	13	13	13	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	609.7	609.7	609.7	609.7	609.7
2.5°	609.7	609.5	609.5	609.7	609.3
5°	608.6	608.9	608.6	608.6	608.2
7.5°	606.2	606.0	605.8	606.0	605.3
10°	602.1	602.1	601.8	602.1	601.6
12.5°	597.0	597.0	597.0	597.3	597.0
15°	590.7	590.5	590.5	590.9	590.5
17.5°	583.3	583.0	583.0	582.8	582.4
20°	574.1	574.1	573.8	573.6	573.0
22.5°	564.2	564.0	563.3	563.3	562.5
25°	552.6	552.0	551.5	551.3	550.7
27.5°	539.9	539.1	538.4	538.0	537.3
30°	525.7	524.8	524.2	523.5	523.1
32.5°	510.4	510.0	508.9	508.7	507.8
35°	494.0	493.3	492.7	491.8	490.9
37.5°	476.5	475.8	474.3	473.9	473.2
40°	457.9	457.0	455.1	455.1	454.4
42.5°	438.0	437.1	435.8	434.9	434.5
45°	417.2	416.3	414.8	413.9	413.5
47.5°	395.1	394.5	392.7	392.0	391.4
50°	372.1	371.3	369.3	368.9	368.2
52.5°	348.1	347.6	345.0	344.8	344.1
55°	324.2	321.8	319.6	319.6	319.2
57.5°	298.0	296.2	293.4	293.4	292.9
60°	270.8	269.3	266.0	266.5	266.0
62.5°	244.4	241.1	238.0	239.3	238.2
65°	214.2	212.4	209.1	210.0	209.8
67.5°	186.6	183.3	180.3	182.0	181.1
70°	156.0	154.2	151.2	152.9	150.7
72.5°	127.1	125.6	122.5	124.5	122.3
75°	99.1	97.6	95.2	96.9	94.7
77.5°	72.6	71.5	69.4	71.1	71.5
80°	48.6	47.3	46.2	47.7	48.1
82.5°	28.4	27.6	27.1	27.3	28.4
85°	13.8	12.7	12.7	12.9	12.9
87.5°	3.7	3.3	3.7	3.9	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)