

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: P974369

Luminaire Tested: FLR2-24-20-L940-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974369  
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-L940-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-20-L940-CP375  
Ballast/Driver: -

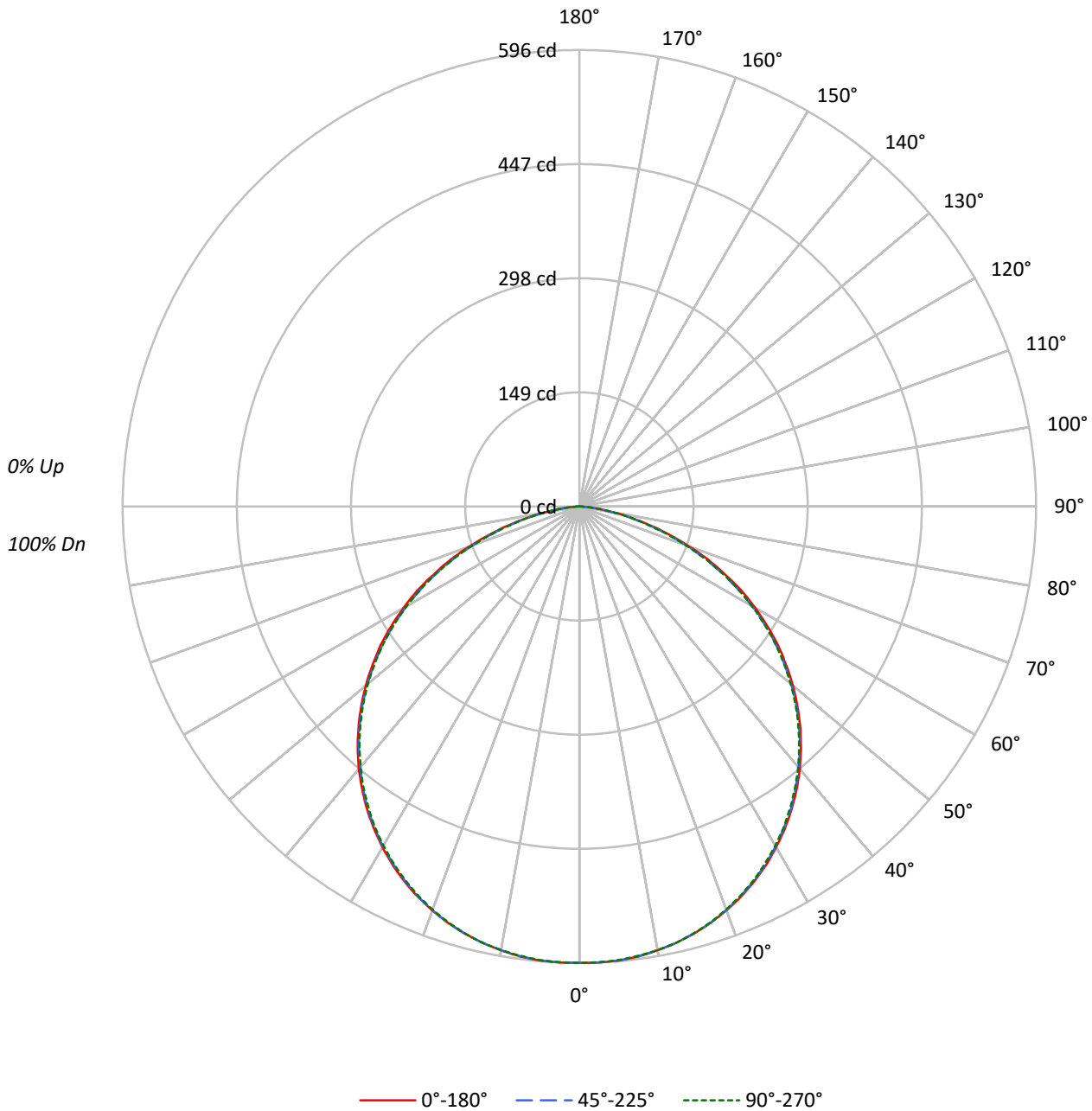
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1684.5 lumens  
Efficiency: N/A  
Efficacy: 100.9 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°	802	802	802
5°	804	804	803
10°	804	804	803
15°	804	804	804
20°	804	803	802
25°	802	800	799
30°	798	796	794
35°	793	791	788
40°	786	781	780
45°	776	772	769
50°	762	756	753
55°	743	733	732
60°	713	700	700
65°	667	651	653
70°	600	581	579
75°	504	483	481
80°	368	349	364
85°	208	191	195

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 776 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.6	3.4
10°-20°	163.0	9.7
20°-30°	248.5	14.8
30°-40°	301.1	17.9
40°-50°	312.7	18.6
50°-60°	279.8	16.6
60°-70°	203.9	12.1
70°-80°	101.0	6.0
80°-90°	18.0	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°	468.0	27.8
0°-40°	769.1	45.7
0°-60°	1361.6	80.8
0°-90°	1684.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1684.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	595	595	595	595	594	57
15°	577	577	577	578	577	163
25°	540	540	539	539	538	249
35°	483	482	482	481	480	302
45°	408	407	406	405	404	314
55°	317	315	312	312	312	282
65°	209	208	204	205	205	208
75°	97	95	93	95	93	103
85°	14	12	12	13	13	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	596.0	596.0	596.0	596.0	596.0
2.5°	596.0	595.8	595.8	596.0	595.6
5°	595.0	595.2	595.0	595.0	594.5
7.5°	592.6	592.4	592.2	592.4	591.7
10°	588.5	588.5	588.3	588.5	588.1
12.5°	583.6	583.6	583.6	583.8	583.6
15°	577.4	577.2	577.2	577.6	577.2
17.5°	570.1	569.9	569.9	569.7	569.3
20°	561.2	561.2	561.0	560.7	560.1
22.5°	551.5	551.3	550.7	550.7	549.8
25°	540.2	539.6	539.1	538.9	538.3
27.5°	527.8	526.9	526.3	525.9	525.2
30°	513.9	513.0	512.4	511.8	511.3
32.5°	498.9	498.5	497.4	497.2	496.4
35°	482.9	482.3	481.6	480.8	479.9
37.5°	465.8	465.1	463.6	463.2	462.6
40°	447.6	446.8	444.8	444.8	444.2
42.5°	428.1	427.3	426.0	425.2	424.7
45°	407.8	407.0	405.5	404.6	404.2
47.5°	386.2	385.6	383.9	383.2	382.6
50°	363.8	362.9	361.0	360.6	359.9
52.5°	340.2	339.8	337.3	337.0	336.4
55°	316.9	314.6	312.4	312.4	312.0
57.5°	291.3	289.6	286.8	286.8	286.4
60°	264.8	263.3	260.1	260.5	260.1
62.5°	238.9	235.7	232.7	234.0	232.9
65°	209.4	207.7	204.4	205.3	205.1
67.5°	182.4	179.2	176.2	177.9	177.1
70°	152.5	150.8	147.8	149.5	147.3
72.5°	124.3	122.8	119.8	121.7	119.5
75°	96.9	95.4	93.0	94.7	92.6
77.5°	71.0	69.9	67.8	69.5	69.9
80°	47.5	46.2	45.1	46.6	47.0
82.5°	27.8	26.9	26.5	26.7	27.8
85°	13.5	12.4	12.4	12.6	12.6
87.5°	3.6	3.2	3.6	3.8	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)