

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: P973659

Luminaire Tested: FLR2-22-35-L940-CA080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973659  
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: FLR2-22-35-L940-CA080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

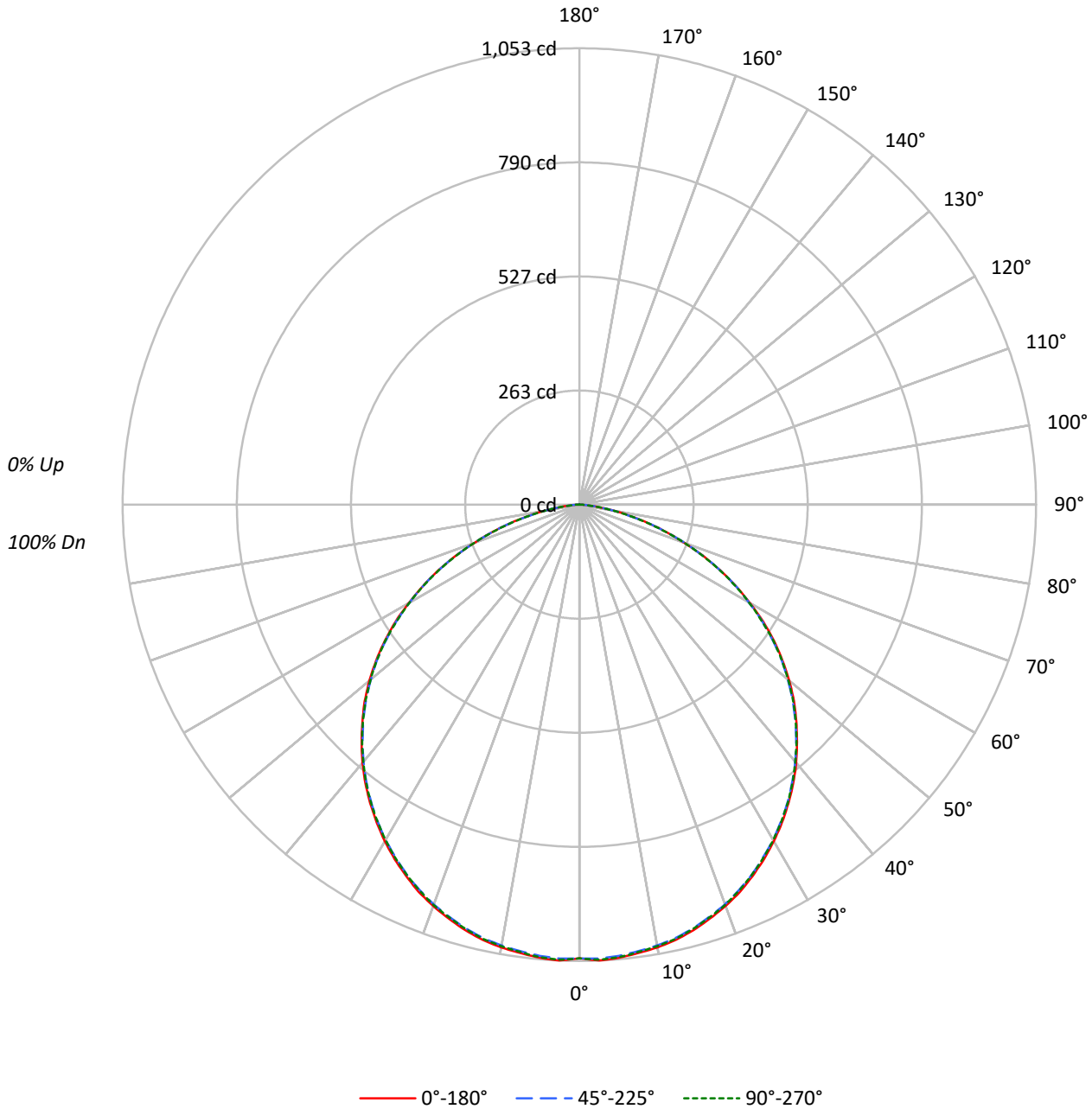
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2928.2 lumens  
Efficiency: N/A  
Efficacy: 105.0 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): 27.9  
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	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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	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	40	34	29	27					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

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

	0°	45°	90°
0°	2818	2818	2818
5°	2836	2823	2832
10°	2835	2822	2828
15°	2832	2820	2824
20°	2822	2812	2815
25°	2807	2796	2798
30°	2787	2775	2777
35°	2762	2751	2754
40°	2733	2720	2722
45°	2692	2680	2685
50°	2645	2626	2632
55°	2570	2549	2558
60°	2443	2433	2433
65°	2281	2278	2269
70°	2020	2031	2025
75°	1701	1687	1674
80°	1223	1203	1193
85°	639	639	618

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2692 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.2	3.4
10°-20°	285.1	9.7
20°-30°	433.3	14.8
30°-40°	523.7	17.9
40°-50°	543.6	18.6
50°-60°	486.0	16.6
60°-70°	353.4	12.1
70°-80°	173.8	5.9
80°-90°	30.1	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°	817.6	27.9
0°-40°	1341.3	45.8
0°-60°	2370.9	81.0
0°-90°	2928.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2928.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1050	1037	1045	1041	1048	100
15°	1017	1005	1012	1010	1014	287
25°	946	935	942	940	942	436
35°	841	835	838	838	838	526
45°	708	704	704	706	706	546
55°	548	545	543	545	545	488
65°	358	360	358	358	356	353
75°	164	165	162	163	161	174
85°	21	21	21	21	20	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1047.1	1047.1	1047.1	1047.1	1047.1
2.5°	1052.9	1040.6	1048.4	1043.9	1051.0
5°	1049.7	1037.4	1045.1	1041.3	1048.4
7.5°	1043.9	1031.6	1039.3	1035.4	1041.3
10°	1037.4	1024.4	1032.9	1029.0	1034.8
12.5°	1029.0	1016.7	1024.4	1021.2	1026.4
15°	1016.7	1005.0	1012.2	1009.6	1013.5
17.5°	1001.8	990.2	997.3	995.3	998.6
20°	985.6	974.6	981.8	979.8	983.1
22.5°	967.5	955.9	962.4	961.1	963.7
25°	945.5	935.2	941.7	939.7	942.3
27.5°	922.3	912.6	917.7	917.7	919.0
30°	897.0	888.0	893.2	893.2	893.8
32.5°	869.9	862.8	866.0	866.6	866.6
35°	840.8	835.0	837.5	838.2	838.2
37.5°	810.4	804.6	806.5	807.8	807.8
40°	778.0	772.9	774.2	775.5	774.8
42.5°	743.1	739.2	739.9	741.2	741.2
45°	707.5	704.3	704.3	705.6	705.6
47.5°	671.3	668.1	666.8	668.1	668.1
50°	631.9	628.6	627.3	628.6	628.6
52.5°	590.5	587.2	587.2	587.2	587.9
55°	547.8	544.6	543.3	544.6	545.2
57.5°	502.5	501.2	499.3	499.9	498.0
60°	454.0	454.0	452.1	453.4	452.1
62.5°	406.8	408.1	406.2	406.2	404.9
65°	358.3	359.6	357.7	357.7	356.4
67.5°	308.5	310.4	307.9	307.9	306.6
70°	256.8	260.6	258.1	258.7	257.4
72.5°	210.2	212.1	209.5	209.5	208.3
75°	163.6	164.9	162.3	163.0	161.0
77.5°	117.7	119.6	117.1	117.7	117.1
80°	78.9	79.6	77.6	78.3	77.0
82.5°	45.9	46.6	45.9	45.3	44.6
85°	20.7	21.3	20.7	20.7	20.0
87.5°	5.2	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)