

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: P974146

Luminaire Tested: FLR2-24-30-L930-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974146  
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: FLR2-24-30-L930-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-30-L930-CP375  
Ballast/Driver: -

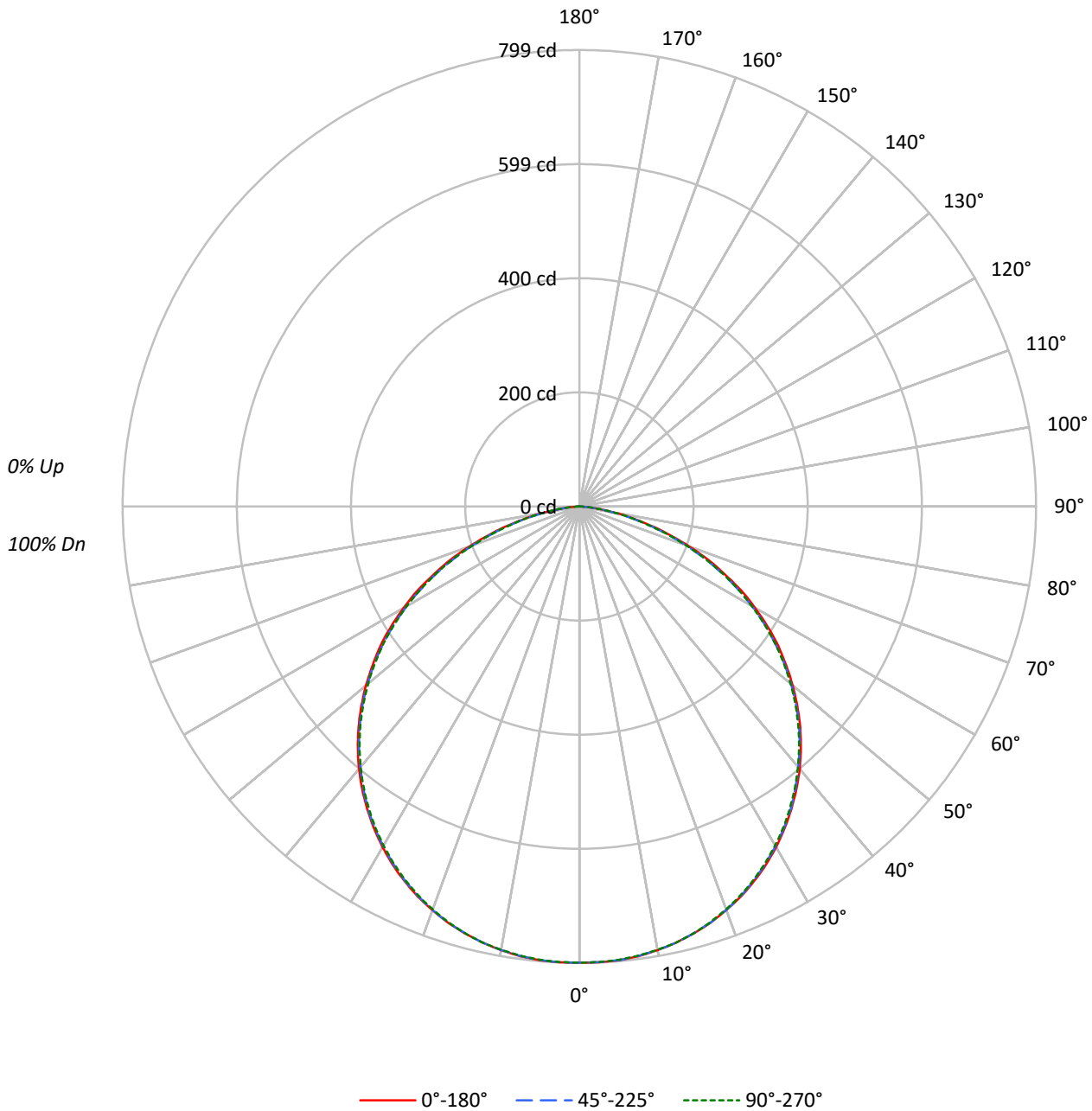
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2257.1 lumens  
Efficiency: N/A  
Efficacy: 95.2 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): 23.7  
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	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°	1075	1075	1075
5°	1077	1077	1076
10°	1077	1077	1077
15°	1078	1077	1077
20°	1077	1076	1075
25°	1075	1072	1071
30°	1070	1067	1065
35°	1063	1060	1056
40°	1053	1047	1045
45°	1040	1034	1031
50°	1020	1012	1010
55°	996	982	981
60°	955	938	938
65°	893	872	875
70°	804	779	777
75°	675	648	645
80°	493	469	488
85°	279	256	261

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1040 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	3.4
10°-20°	218.4	9.7
20°-30°	333.0	14.8
30°-40°	403.4	17.9
40°-50°	419.0	18.6
50°-60°	374.9	16.6
60°-70°	273.2	12.1
70°-80°	135.3	6.0
80°-90°	24.2	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°	627.2	27.8
0°-40°	1030.6	45.7
0°-60°	1824.5	80.8
0°-90°	2257.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	797	798	797	797	797	76
15°	774	773	773	774	773	218
25°	724	723	722	722	721	334
35°	647	646	645	644	643	405
45°	546	545	543	542	542	421
55°	425	422	419	419	418	378
65°	280	278	274	275	275	278
75°	130	128	125	127	124	138
85°	18	17	17	17	17	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	798.6	798.6	798.6	798.6	798.6
2.5°	798.6	798.3	798.3	798.6	798.1
5°	797.2	797.5	797.2	797.2	796.6
7.5°	794.0	793.8	793.5	793.8	792.9
10°	788.6	788.6	788.3	788.6	788.0
12.5°	782.0	782.0	782.0	782.3	782.0
15°	773.7	773.4	773.4	774.0	773.4
17.5°	764.0	763.7	763.7	763.4	762.8
20°	751.9	751.9	751.6	751.3	750.5
22.5°	739.0	738.7	737.9	737.9	736.7
25°	723.8	723.0	722.4	722.1	721.3
27.5°	707.2	706.1	705.2	704.6	703.8
30°	688.6	687.4	686.6	685.7	685.2
32.5°	668.5	668.0	666.5	666.2	665.1
35°	647.0	646.2	645.3	644.2	643.0
37.5°	624.1	623.3	621.2	620.7	619.8
40°	599.8	598.6	596.0	596.0	595.2
42.5°	573.7	572.5	570.8	569.7	569.1
45°	546.5	545.3	543.3	542.2	541.6
47.5°	517.5	516.7	514.4	513.5	512.6
50°	487.4	486.3	483.7	483.1	482.3
52.5°	455.9	455.3	451.9	451.6	450.7
55°	424.7	421.5	418.7	418.7	418.1
57.5°	390.3	388.0	384.3	384.3	383.7
60°	354.8	352.7	348.4	349.0	348.4
62.5°	320.1	315.8	311.8	313.5	312.1
65°	280.5	278.2	273.9	275.1	274.8
67.5°	244.4	240.1	236.1	238.4	237.3
70°	204.3	202.0	198.0	200.3	197.4
72.5°	166.5	164.5	160.5	163.0	160.2
75°	129.8	127.8	124.7	126.9	124.1
77.5°	95.1	93.7	90.8	93.1	93.7
80°	63.6	61.9	60.5	62.5	63.0
82.5°	37.3	36.1	35.5	35.8	37.3
85°	18.1	16.6	16.6	16.9	16.9
87.5°	4.9	4.3	4.9	5.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)