

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: P973527

Luminaire Tested: FLR2-22-35-L930-CP080

Issue Date: 3/13/2025

**Test Information**

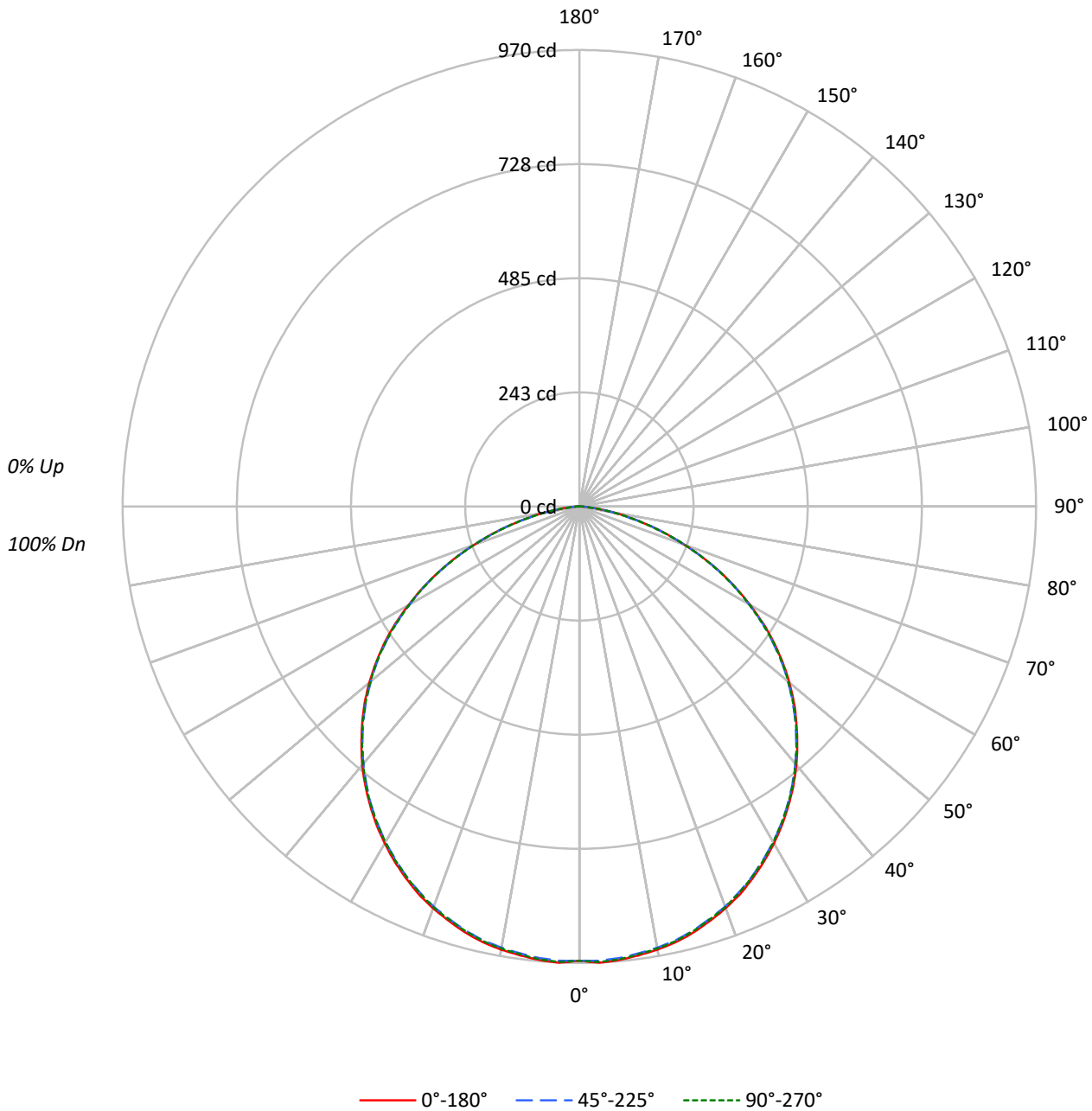
Test Method: LM-79-2019  
Report Number: P973527  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-35-L930-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2699.2 lumens  
Efficiency: N/A  
Efficacy: 96.7 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°	2597	2597	2597
5°	2614	2602	2610
10°	2613	2602	2607
15°	2611	2599	2603
20°	2602	2592	2595
25°	2588	2577	2579
30°	2569	2558	2560
35°	2546	2536	2538
40°	2519	2507	2509
45°	2482	2471	2475
50°	2438	2421	2426
55°	2369	2350	2358
60°	2252	2243	2243
65°	2103	2099	2092
70°	1862	1872	1867
75°	1568	1555	1543
80°	1127	1108	1099
85°	590	590	571

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2482 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.4	3.4
10°-20°	262.8	9.7
20°-30°	399.4	14.8
30°-40°	482.8	17.9
40°-50°	501.1	18.6
50°-60°	448.0	16.6
60°-70°	325.7	12.1
70°-80°	160.2	5.9
80°-90°	27.8	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°	753.6	27.9
0°-40°	1236.4	45.8
0°-60°	2185.5	81.0
0°-90°	2699.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2699.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	968	956	963	960	966	92
15°	937	926	933	931	934	264
25°	872	862	868	866	869	402
35°	775	770	772	773	773	485
45°	652	649	649	650	650	503
55°	505	502	501	502	503	450
65°	330	332	330	330	328	326
75°	151	152	150	150	148	160
85°	19	20	19	19	18	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	965.2	965.2	965.2	965.2	965.2
2.5°	970.5	959.2	966.4	962.2	968.8
5°	967.6	956.2	963.4	959.8	966.4
7.5°	962.2	950.9	958.0	954.4	959.8
10°	956.2	944.3	952.1	948.5	953.9
12.5°	948.5	937.2	944.3	941.3	946.1
15°	937.2	926.4	933.0	930.6	934.2
17.5°	923.4	912.7	919.3	917.5	920.5
20°	908.5	898.4	905.0	903.2	906.2
22.5°	891.9	881.1	887.1	885.9	888.3
25°	871.6	862.0	868.0	866.2	868.6
27.5°	850.1	841.2	845.9	845.9	847.1
30°	826.9	818.5	823.3	823.3	823.9
32.5°	801.8	795.3	798.3	798.9	798.9
35°	775.0	769.6	772.0	772.6	772.6
37.5°	747.0	741.6	743.4	744.6	744.6
40°	717.2	712.4	713.6	714.8	714.2
42.5°	685.0	681.4	682.0	683.2	683.2
45°	652.2	649.2	649.2	650.4	650.4
47.5°	618.8	615.8	614.6	615.8	615.8
50°	582.4	579.5	578.3	579.5	579.5
52.5°	544.3	541.3	541.3	541.3	541.9
55°	504.9	502.0	500.8	502.0	502.6
57.5°	463.2	462.0	460.2	460.8	459.0
60°	418.5	418.5	416.7	417.9	416.7
62.5°	375.0	376.2	374.4	374.4	373.2
65°	330.3	331.5	329.7	329.7	328.5
67.5°	284.4	286.2	283.8	283.8	282.6
70°	236.7	240.3	237.9	238.5	237.3
72.5°	193.8	195.5	193.2	193.2	192.0
75°	150.8	152.0	149.6	150.2	148.4
77.5°	108.5	110.3	107.9	108.5	107.9
80°	72.7	73.3	71.5	72.1	70.9
82.5°	42.3	42.9	42.3	41.7	41.1
85°	19.1	19.7	19.1	19.1	18.5
87.5°	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)