

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: P973530

Luminaire Tested: FLR2-22-25-L930-CP125

Issue Date: 3/13/2025

**Test Information**

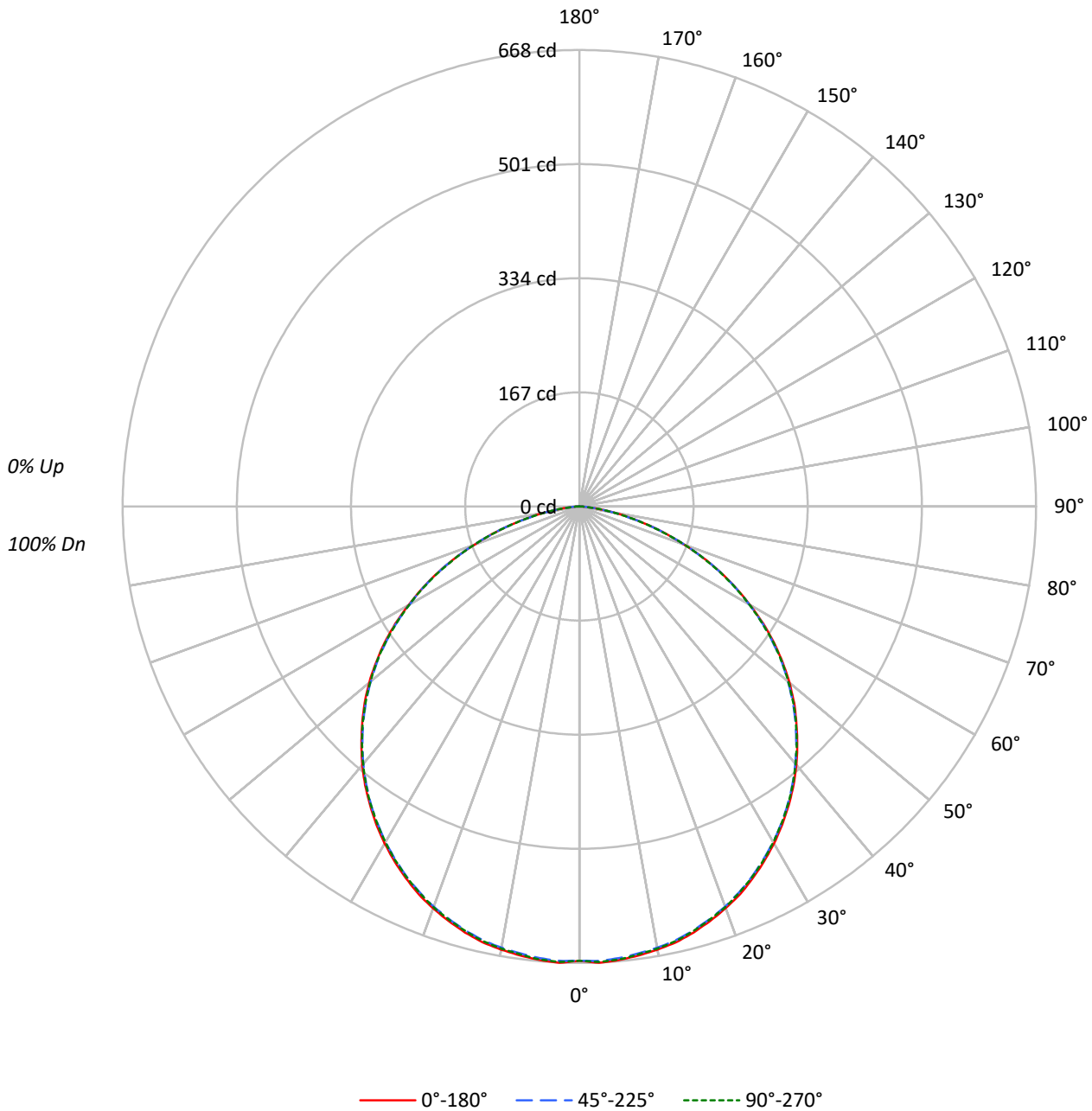
Test Method: LM-79-2019  
Report Number: P973530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-25-L930-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1859.0 lumens  
Efficiency: N/A  
Efficacy: 98.4 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): 18.9  
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																				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																				
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44																				
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																				
8	61	47	39	33	59	47	39	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	40	34	29	27																				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																				

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

	0°	45°	90°
0°	1789	1789	1789
5°	1800	1792	1798
10°	1800	1792	1795
15°	1798	1790	1792
20°	1792	1785	1787
25°	1782	1775	1776
30°	1770	1762	1763
35°	1754	1747	1748
40°	1735	1727	1728
45°	1709	1701	1705
50°	1680	1667	1671
55°	1632	1618	1624
60°	1551	1545	1545
65°	1449	1446	1440
70°	1282	1289	1286
75°	1080	1072	1063
80°	776	764	758
85°	404	404	392

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1709 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.9	3.4
10°-20°	181.0	9.7
20°-30°	275.1	14.8
30°-40°	332.5	17.9
40°-50°	345.1	18.6
50°-60°	308.5	16.6
60°-70°	224.3	12.1
70°-80°	110.3	5.9
80°-90°	19.1	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°	519.1	27.9
0°-40°	851.6	45.8
0°-60°	1505.2	81.0
0°-90°	1859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1859.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	666	659	664	661	666	63
15°	646	638	643	641	643	182
25°	600	594	598	597	598	277
35°	534	530	532	532	532	334
45°	449	447	447	448	448	347
55°	348	346	345	346	346	310
65°	228	228	227	227	226	224
75°	104	105	103	104	102	110
85°	13	14	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°	664.8	664.8	664.8	664.8	664.8
2.5°	668.5	660.7	665.6	662.7	667.2
5°	666.4	658.6	663.5	661.1	665.6
7.5°	662.7	654.9	659.8	657.4	661.1
10°	658.6	650.4	655.7	653.3	657.0
12.5°	653.3	645.5	650.4	648.3	651.6
15°	645.5	638.1	642.6	641.0	643.4
17.5°	636.0	628.6	633.2	631.9	634.0
20°	625.8	618.8	623.3	622.1	624.1
22.5°	614.3	606.9	611.0	610.2	611.8
25°	600.3	593.7	597.8	596.6	598.3
27.5°	585.5	579.4	582.6	582.6	583.5
30°	569.5	563.8	567.0	567.0	567.5
32.5°	552.3	547.7	549.8	550.2	550.2
35°	533.8	530.1	531.7	532.1	532.1
37.5°	514.5	510.8	512.0	512.8	512.8
40°	494.0	490.7	491.5	492.3	491.9
42.5°	471.8	469.3	469.7	470.6	470.6
45°	449.2	447.1	447.1	448.0	448.0
47.5°	426.2	424.2	423.3	424.2	424.2
50°	401.2	399.1	398.3	399.1	399.1
52.5°	374.9	372.8	372.8	372.8	373.2
55°	347.8	345.7	344.9	345.7	346.1
57.5°	319.0	318.2	317.0	317.4	316.2
60°	288.2	288.2	287.0	287.8	287.0
62.5°	258.3	259.1	257.9	257.9	257.0
65°	227.5	228.3	227.1	227.1	226.2
67.5°	195.9	197.1	195.4	195.4	194.6
70°	163.0	165.5	163.8	164.2	163.4
72.5°	133.4	134.7	133.0	133.0	132.2
75°	103.9	104.7	103.1	103.5	102.2
77.5°	74.7	76.0	74.3	74.7	74.3
80°	50.1	50.5	49.3	49.7	48.9
82.5°	29.2	29.6	29.2	28.7	28.3
85°	13.1	13.5	13.1	13.1	12.7
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)