

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: P973613

Luminaire Tested: FLR2-22-20-L840-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973613  
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: FLR2-22-20-L840-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

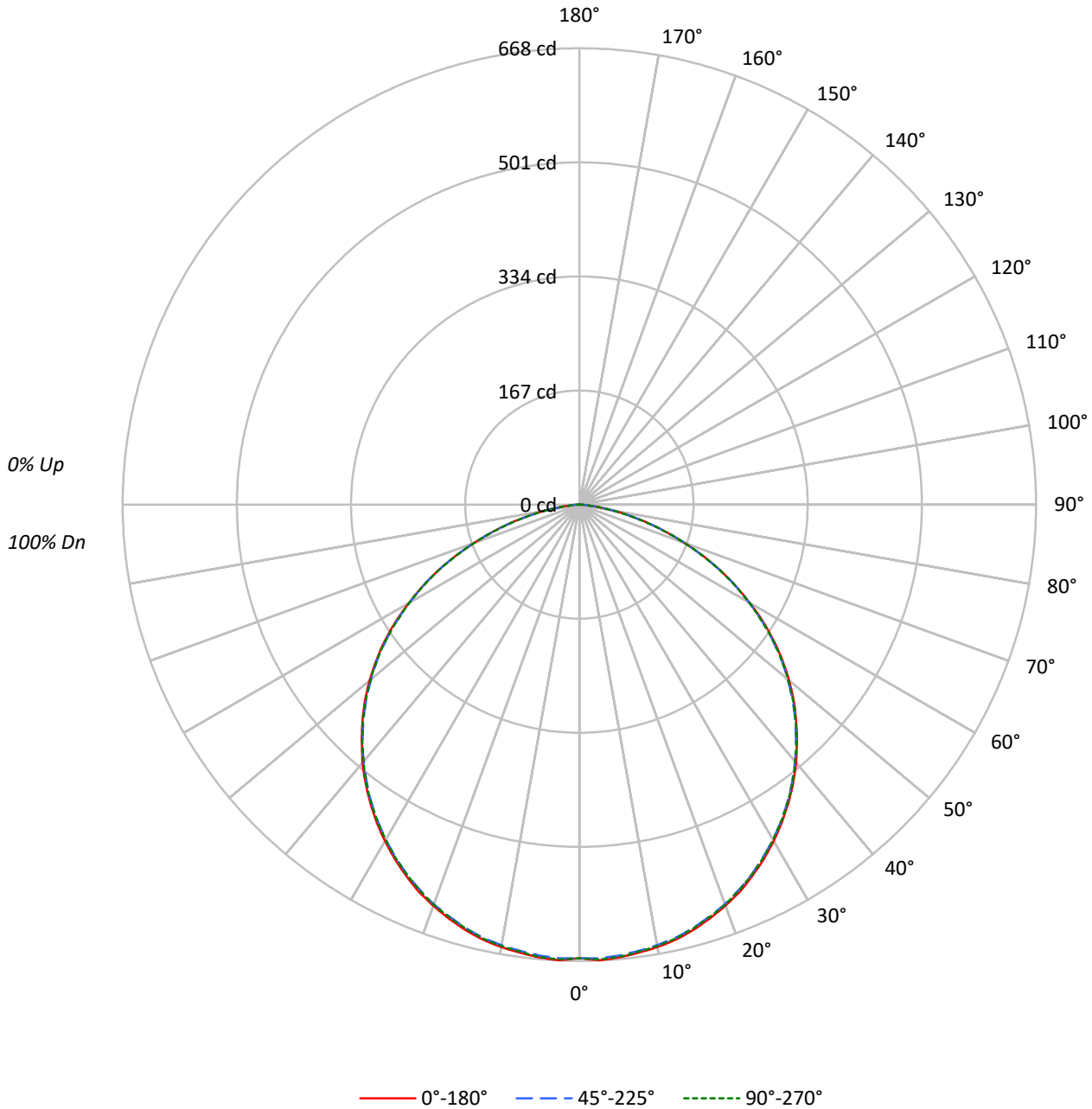
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1856.5 lumens  
Efficiency: N/A  
Efficacy: 122.9 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): 15.1  
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	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°	1787	1787	1787
5°	1798	1790	1796
10°	1797	1789	1793
15°	1796	1788	1790
20°	1790	1783	1785
25°	1780	1773	1774
30°	1767	1760	1761
35°	1751	1744	1746
40°	1733	1724	1725
45°	1707	1699	1703
50°	1677	1665	1669
55°	1629	1616	1622
60°	1549	1542	1542
65°	1447	1444	1438
70°	1281	1287	1284
75°	1078	1070	1062
80°	775	762	756
85°	404	404	392

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1707 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.9	3.4
10°-20°	180.8	9.7
20°-30°	274.7	14.8
30°-40°	332.1	17.9
40°-50°	344.7	18.6
50°-60°	308.1	16.6
60°-70°	224.0	12.1
70°-80°	110.2	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°	518.4	27.9
0°-40°	850.4	45.8
0°-60°	1503.2	81.0
0°-90°	1856.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	666	658	663	660	665	63
15°	645	637	642	640	642	182
25°	600	593	597	596	597	276
35°	533	529	531	531	531	333
45°	449	446	446	447	447	346
55°	347	345	344	345	346	310
65°	227	228	227	227	226	224
75°	104	105	103	103	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°	663.9	663.9	663.9	663.9	663.9
2.5°	667.6	659.8	664.7	661.8	666.3
5°	665.5	657.7	662.6	660.2	664.7
7.5°	661.8	654.0	658.9	656.5	660.2
10°	657.7	649.5	654.8	652.4	656.1
12.5°	652.4	644.6	649.5	647.5	650.7
15°	644.6	637.2	641.7	640.1	642.5
17.5°	635.2	627.8	632.3	631.1	633.1
20°	624.9	617.9	622.5	621.2	623.3
22.5°	613.4	606.1	610.2	609.3	611.0
25°	599.5	592.9	597.0	595.8	597.4
27.5°	584.7	578.6	581.9	581.9	582.7
30°	568.7	563.0	566.3	566.3	566.7
32.5°	551.5	547.0	549.1	549.5	549.5
35°	533.1	529.4	531.0	531.4	531.4
37.5°	513.8	510.1	511.3	512.2	512.2
40°	493.3	490.0	490.8	491.6	491.2
42.5°	471.1	468.7	469.1	469.9	469.9
45°	448.6	446.5	446.5	447.4	447.4
47.5°	425.6	423.6	422.8	423.6	423.6
50°	400.6	398.6	397.7	398.6	398.6
52.5°	374.4	372.3	372.3	372.3	372.7
55°	347.3	345.3	344.4	345.3	345.7
57.5°	318.6	317.8	316.6	317.0	315.7
60°	287.9	287.9	286.6	287.4	286.6
62.5°	257.9	258.7	257.5	257.5	256.7
65°	227.2	228.0	226.8	226.8	225.9
67.5°	195.6	196.8	195.2	195.2	194.4
70°	162.8	165.2	163.6	164.0	163.2
72.5°	133.3	134.5	132.9	132.9	132.0
75°	103.7	104.6	102.9	103.3	102.1
77.5°	74.6	75.9	74.2	74.6	74.2
80°	50.0	50.4	49.2	49.6	48.8
82.5°	29.1	29.5	29.1	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)