

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: P973677

Luminaire Tested: FLR2-22-20-L850-CP250

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973677  
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-L850-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

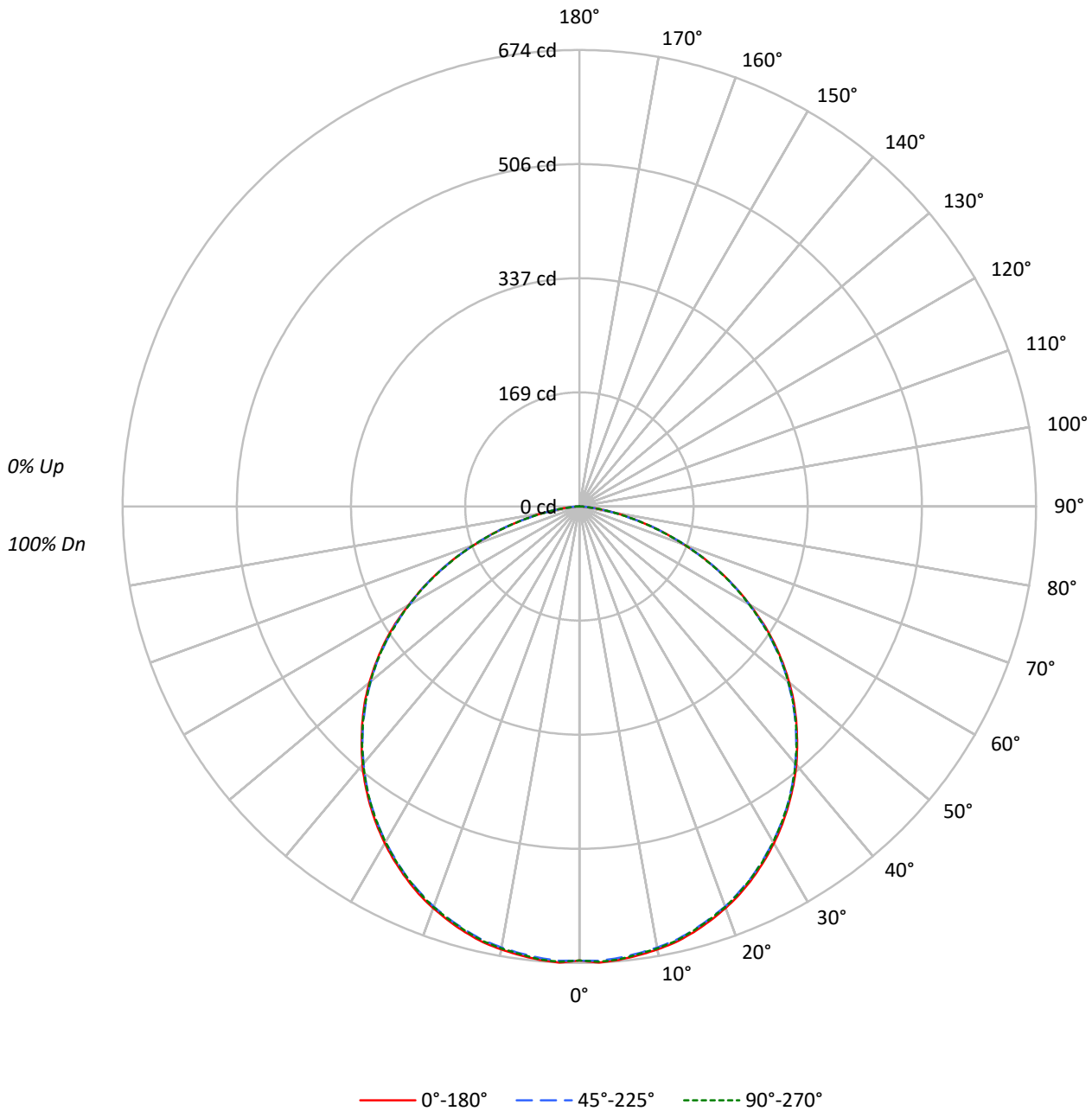
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1875.0 lumens  
Efficiency: N/A  
Efficacy: 124.2 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°	1804	1804	1804
5°	1816	1808	1813
10°	1815	1807	1811
15°	1814	1806	1808
20°	1807	1800	1803
25°	1798	1790	1792
30°	1785	1777	1778
35°	1769	1762	1763
40°	1750	1741	1743
45°	1724	1716	1719
50°	1694	1682	1685
55°	1646	1632	1638
60°	1565	1558	1558
65°	1461	1458	1453
70°	1293	1300	1297
75°	1090	1080	1072
80°	783	770	764
85°	411	411	395

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1724 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	3.4
10°-20°	182.6	9.7
20°-30°	277.4	14.8
30°-40°	335.4	17.9
40°-50°	348.1	18.6
50°-60°	311.2	16.6
60°-70°	226.3	12.1
70°-80°	111.3	5.9
80°-90°	19.3	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°	523.5	27.9
0°-40°	858.9	45.8
0°-60°	1518.1	81.0
0°-90°	1875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	672	664	669	667	671	64
15°	651	644	648	646	649	184
25°	605	599	603	602	603	279
35°	538	535	536	537	537	337
45°	453	451	451	452	452	349
55°	351	349	348	349	349	313
65°	229	230	229	229	228	226
75°	105	106	104	104	103	111
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°	670.5	670.5	670.5	670.5	670.5
2.5°	674.2	666.3	671.3	668.4	672.9
5°	672.1	664.2	669.2	666.7	671.3
7.5°	668.4	660.5	665.5	663.0	666.7
10°	664.2	656.0	661.4	658.9	662.6
12.5°	658.9	651.0	656.0	653.9	657.2
15°	651.0	643.5	648.1	646.4	648.9
17.5°	641.5	634.0	638.6	637.3	639.4
20°	631.1	624.1	628.6	627.4	629.5
22.5°	619.5	612.1	616.2	615.4	617.0
25°	605.4	598.8	603.0	601.7	603.4
27.5°	590.5	584.3	587.6	587.6	588.5
30°	574.4	568.6	571.9	571.9	572.3
32.5°	557.0	552.4	554.5	554.9	554.9
35°	538.4	534.6	536.3	536.7	536.7
37.5°	518.9	515.2	516.4	517.2	517.2
40°	498.2	494.9	495.7	496.5	496.1
42.5°	475.8	473.3	473.8	474.6	474.6
45°	453.0	451.0	451.0	451.8	451.8
47.5°	429.9	427.8	427.0	427.8	427.8
50°	404.6	402.5	401.7	402.5	402.5
52.5°	378.1	376.0	376.0	376.0	376.4
55°	350.8	348.7	347.9	348.7	349.1
57.5°	321.8	320.9	319.7	320.1	318.9
60°	290.7	290.7	289.5	290.3	289.5
62.5°	260.5	261.3	260.1	260.1	259.2
65°	229.4	230.3	229.0	229.0	228.2
67.5°	197.5	198.8	197.1	197.1	196.3
70°	164.4	166.9	165.2	165.6	164.8
72.5°	134.6	135.8	134.2	134.2	133.3
75°	104.8	105.6	103.9	104.4	103.1
77.5°	75.4	76.6	75.0	75.4	75.0
80°	50.5	50.9	49.7	50.1	49.3
82.5°	29.4	29.8	29.4	29.0	28.6
85°	13.3	13.7	13.3	13.3	12.8
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)