

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: P973678

Luminaire Tested: FLR2-22-25-L850-CP250

Issue Date: 3/13/2025

**Test Information**

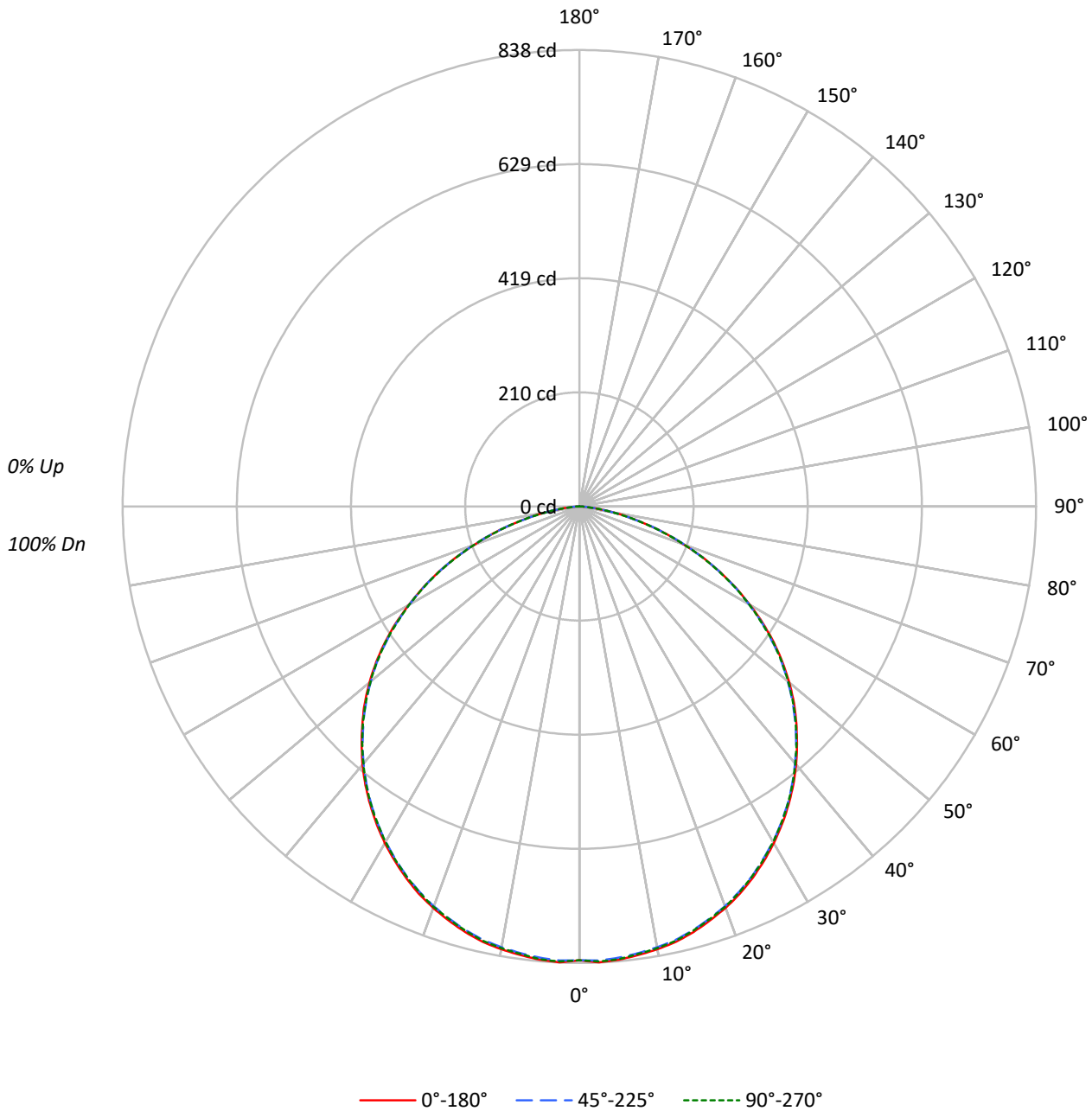
Test Method: LM-79-2019  
Report Number: P973678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-22-25-L850-CP250  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2329.9 lumens  
Efficiency: N/A  
Efficacy: 123.3 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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CATALOG NUMBER: FLR2-22-25-L850-CP250

### 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°	2242	2242	2242
5°	2256	2246	2253
10°	2255	2246	2250
15°	2254	2244	2247
20°	2246	2237	2240
25°	2234	2225	2226
30°	2218	2208	2210
35°	2198	2189	2191
40°	2175	2164	2166
45°	2143	2133	2136
50°	2105	2090	2094
55°	2045	2028	2035
60°	1945	1936	1936
65°	1815	1812	1805
70°	1607	1615	1611
75°	1354	1343	1332
80°	973	958	948
85°	509	509	494

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2143 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.9	3.4
10°-20°	226.9	9.7
20°-30°	344.8	14.8
30°-40°	416.7	17.9
40°-50°	432.5	18.6
50°-60°	386.7	16.6
60°-70°	281.2	12.1
70°-80°	138.3	5.9
80°-90°	24.0	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°	650.5	27.9
0°-40°	1067.3	45.8
0°-60°	1886.5	81.0
0°-90°	2329.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2329.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	835	825	832	828	834	79
15°	809	800	805	803	806	228
25°	752	744	749	748	750	347
35°	669	664	666	667	667	419
45°	563	560	560	561	561	434
55°	436	433	432	433	434	389
65°	285	286	285	285	284	281
75°	130	131	129	130	128	138
85°	16	17	16	16	16	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	833.1	833.1	833.1	833.1	833.1
2.5°	837.8	828.0	834.2	830.6	836.2
5°	835.2	825.4	831.6	828.5	834.2
7.5°	830.6	820.8	827.0	823.9	828.5
10°	825.4	815.1	821.8	818.7	823.4
12.5°	818.7	809.0	815.1	812.6	816.7
15°	809.0	799.7	805.4	803.3	806.4
17.5°	797.1	787.9	793.5	792.0	794.5
20°	784.3	775.5	781.2	779.6	782.2
22.5°	769.8	760.6	765.7	764.7	766.8
25°	752.4	744.1	749.3	747.7	749.8
27.5°	733.8	726.1	730.2	730.2	731.3
30°	713.8	706.6	710.7	710.7	711.2
32.5°	692.1	686.5	689.1	689.6	689.6
35°	669.0	664.4	666.4	666.9	666.9
37.5°	644.8	640.2	641.7	642.7	642.7
40°	619.1	615.0	616.0	617.0	616.5
42.5°	591.3	588.2	588.7	589.7	589.7
45°	563.0	560.4	560.4	561.4	561.4
47.5°	534.2	531.6	530.6	531.6	531.6
50°	502.8	500.2	499.2	500.2	500.2
52.5°	469.8	467.3	467.3	467.3	467.8
55°	435.9	433.3	432.3	433.3	433.8
57.5°	399.8	398.8	397.3	397.8	396.2
60°	361.3	361.3	359.7	360.7	359.7
62.5°	323.7	324.7	323.2	323.2	322.1
65°	285.1	286.1	284.6	284.6	283.5
67.5°	245.5	247.0	245.0	245.0	243.9
70°	204.3	207.4	205.3	205.8	204.8
72.5°	167.2	168.8	166.7	166.7	165.7
75°	130.2	131.2	129.2	129.7	128.1
77.5°	93.7	95.2	93.1	93.7	93.1
80°	62.8	63.3	61.8	62.3	61.2
82.5°	36.5	37.1	36.5	36.0	35.5
85°	16.5	17.0	16.5	16.5	16.0
87.5°	4.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)