

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: P973974

Luminaire Tested: FLR2-22-25HE-L850-CP080

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973974  
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: FLR2-22-25HE-L850-CP080  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

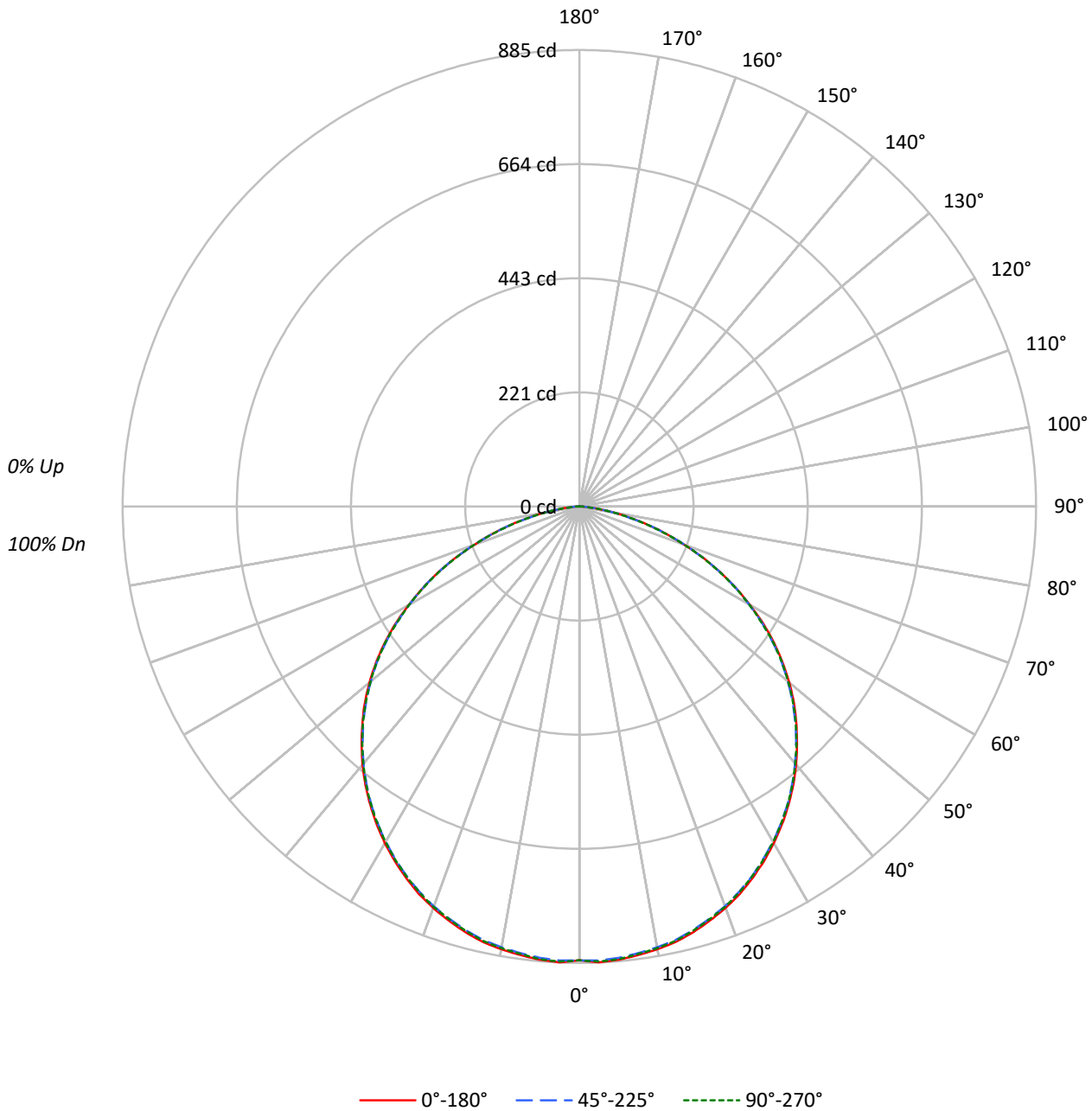
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2460.6 lumens  
Efficiency: N/A  
Efficacy: 128.2 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): 19.2  
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°	2368	2368	2368
5°	2383	2373	2380
10°	2382	2372	2376
15°	2380	2369	2372
20°	2372	2363	2366
25°	2359	2350	2351
30°	2342	2332	2334
35°	2321	2312	2314
40°	2297	2285	2287
45°	2263	2253	2256
50°	2223	2207	2212
55°	2160	2142	2150
60°	2053	2045	2045
65°	1917	1913	1907
70°	1698	1706	1702
75°	1430	1418	1407
80°	1027	1010	1003
85°	537	537	519

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2263 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	3.4
10°-20°	239.6	9.7
20°-30°	364.1	14.8
30°-40°	440.1	17.9
40°-50°	456.8	18.6
50°-60°	408.4	16.6
60°-70°	296.9	12.1
70°-80°	146.0	5.9
80°-90°	25.3	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°	687.1	27.9
0°-40°	1127.2	45.8
0°-60°	1992.4	81.0
0°-90°	2460.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	882	872	878	875	881	84
15°	854	845	850	848	852	241
25°	795	786	791	790	792	366
35°	706	702	704	704	704	442
45°	595	592	592	593	593	459
55°	460	458	456	458	458	410
65°	301	302	300	300	300	297
75°	138	139	136	137	135	146
85°	17	18	17	17	17	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	879.9	879.9	879.9	879.9	879.9
2.5°	884.8	874.5	881.0	877.2	883.2
5°	882.1	871.7	878.3	875.0	881.0
7.5°	877.2	866.9	873.4	870.1	875.0
10°	871.7	860.9	867.9	864.7	869.6
12.5°	864.7	854.4	860.9	858.2	862.5
15°	854.4	844.6	850.5	848.4	851.6
17.5°	841.9	832.1	838.0	836.4	839.1
20°	828.3	819.0	825.0	823.4	826.1
22.5°	813.0	803.3	808.7	807.6	809.8
25°	794.6	785.9	791.3	789.7	791.9
27.5°	775.0	766.9	771.2	771.2	772.3
30°	753.8	746.2	750.5	750.5	751.1
32.5°	731.0	725.0	727.7	728.3	728.3
35°	706.5	701.6	703.8	704.4	704.4
37.5°	681.0	676.1	677.7	678.8	678.8
40°	653.8	649.5	650.5	651.6	651.1
42.5°	624.5	621.2	621.7	622.8	622.8
45°	594.6	591.9	591.9	592.9	592.9
47.5°	564.1	561.4	560.3	561.4	561.4
50°	531.0	528.3	527.2	528.3	528.3
52.5°	496.2	493.5	493.5	493.5	494.0
55°	460.3	457.6	456.5	457.6	458.2
57.5°	422.3	421.2	419.6	420.1	418.5
60°	381.5	381.5	379.9	381.0	379.9
62.5°	341.9	342.9	341.3	341.3	340.2
65°	301.1	302.2	300.5	300.5	299.5
67.5°	259.2	260.9	258.7	258.7	257.6
70°	215.8	219.0	216.8	217.4	216.3
72.5°	176.6	178.3	176.1	176.1	175.0
75°	137.5	138.6	136.4	137.0	135.3
77.5°	98.9	100.5	98.4	98.9	98.4
80°	66.3	66.8	65.2	65.8	64.7
82.5°	38.6	39.1	38.6	38.0	37.5
85°	17.4	17.9	17.4	17.4	16.8
87.5°	4.3	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)