

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: P973980

Luminaire Tested: FLR2-22-25HE-L850-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973980  
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-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

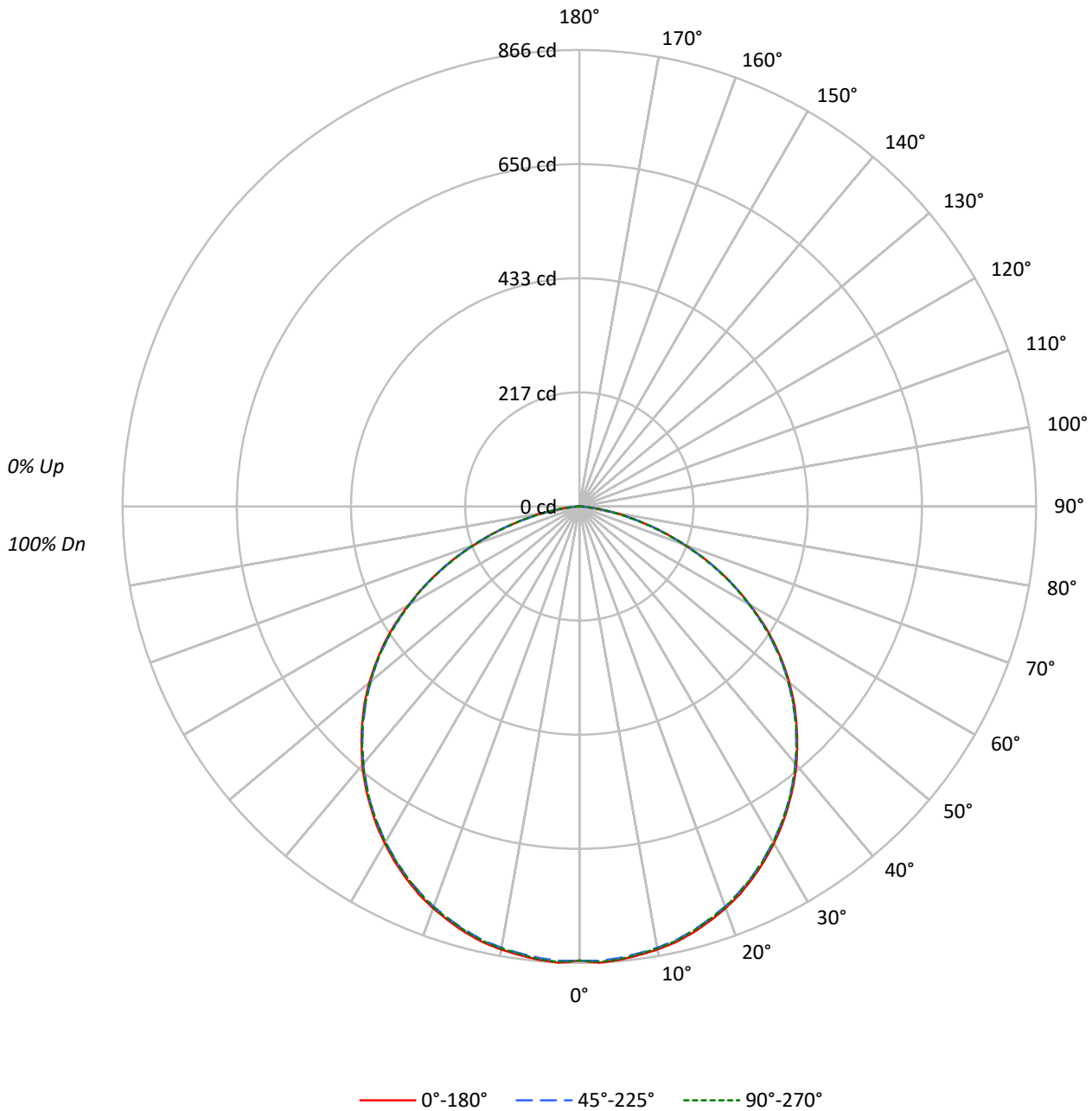
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2409.5 lumens  
Efficiency: N/A  
Efficacy: 125.5 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 (A<sub>in</sub>): 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						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°	2319	2319	2319
5°	2333	2323	2330
10°	2332	2322	2327
15°	2331	2320	2323
20°	2322	2313	2316
25°	2310	2301	2302
30°	2293	2284	2285
35°	2273	2264	2266
40°	2249	2238	2239
45°	2216	2205	2210
50°	2177	2161	2166
55°	2114	2097	2105
60°	2011	2002	2002
65°	1877	1874	1867
70°	1662	1670	1666
75°	1399	1389	1378
80°	1006	990	981
85°	525	525	509

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2216 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	3.4
10°-20°	234.6	9.7
20°-30°	356.5	14.8
30°-40°	430.9	17.9
40°-50°	447.3	18.6
50°-60°	399.9	16.6
60°-70°	290.8	12.1
70°-80°	143.0	5.9
80°-90°	24.8	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°	672.7	27.9
0°-40°	1103.7	45.8
0°-60°	1950.9	81.0
0°-90°	2409.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2409.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	864	854	860	857	863	82
15°	837	827	833	831	834	236
25°	778	770	775	773	775	359
35°	692	687	689	690	690	433
45°	582	580	580	581	581	449
55°	451	448	447	448	449	402
65°	295	296	294	294	293	291
75°	135	136	134	134	132	143
85°	17	18	17	17	16	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	861.6	861.6	861.6	861.6	861.6
2.5°	866.4	856.3	862.6	858.9	864.8
5°	863.7	853.6	860.0	856.8	862.6
7.5°	858.9	848.8	855.2	852.0	856.8
10°	853.6	843.0	849.9	846.7	851.5
12.5°	846.7	836.6	843.0	840.3	844.6
15°	836.6	827.0	832.8	830.7	833.9
17.5°	824.3	814.8	820.6	819.0	821.7
20°	811.0	802.0	807.8	806.2	808.9
22.5°	796.1	786.5	791.9	790.8	792.9
25°	778.0	769.5	774.8	773.2	775.4
27.5°	758.9	750.9	755.2	755.2	756.2
30°	738.1	730.7	734.9	734.9	735.5
32.5°	715.8	709.9	712.6	713.1	713.1
35°	691.8	687.0	689.2	689.7	689.7
37.5°	666.8	662.0	663.6	664.7	664.7
40°	640.2	635.9	637.0	638.1	637.5
42.5°	611.5	608.3	608.8	609.9	609.9
45°	582.2	579.5	579.5	580.6	580.6
47.5°	552.4	549.7	548.7	549.7	549.7
50°	519.9	517.3	516.2	517.3	517.3
52.5°	485.9	483.2	483.2	483.2	483.7
55°	450.7	448.1	447.0	448.1	448.6
57.5°	413.5	412.4	410.8	411.4	409.8
60°	373.6	373.6	372.0	373.1	372.0
62.5°	334.7	335.8	334.2	334.2	333.1
65°	294.8	295.9	294.3	294.3	293.2
67.5°	253.8	255.4	253.3	253.3	252.2
70°	211.3	214.5	212.3	212.9	211.8
72.5°	173.0	174.6	172.4	172.4	171.4
75°	134.6	135.7	133.6	134.1	132.5
77.5°	96.9	98.5	96.3	96.9	96.3
80°	64.9	65.5	63.9	64.4	63.3
82.5°	37.8	38.3	37.8	37.3	36.7
85°	17.0	17.6	17.0	17.0	16.5
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)