

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: P973614

Luminaire Tested: FLR2-22-25-L840-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973614  
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-L840-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

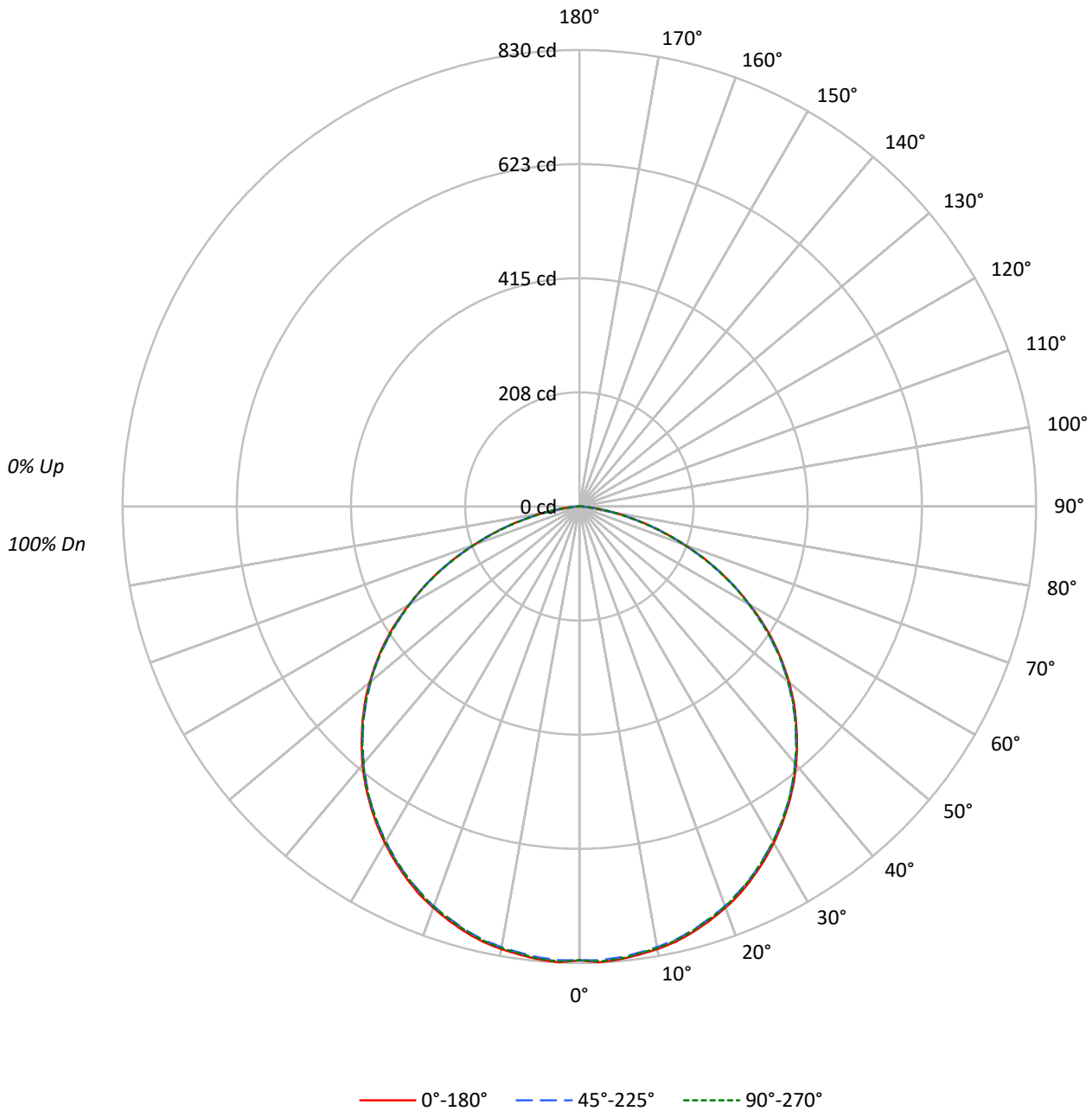
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2307.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 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

TEST NUMBER: P973614  
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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°	2220	2220	2220
5°	2234	2224	2231
10°	2233	2223	2228
15°	2232	2221	2225
20°	2224	2215	2218
25°	2212	2203	2204
30°	2196	2187	2188
35°	2176	2168	2169
40°	2153	2142	2144
45°	2121	2112	2116
50°	2084	2069	2074
55°	2025	2008	2015
60°	1925	1917	1917
65°	1798	1794	1788
70°	1592	1600	1596
75°	1340	1330	1319
80°	964	947	939
85°	503	503	488

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2121 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	3.4
10°-20°	224.6	9.7
20°-30°	341.4	14.8
30°-40°	412.6	17.9
40°-50°	428.3	18.6
50°-60°	382.9	16.6
60°-70°	278.4	12.1
70°-80°	136.9	5.9
80°-90°	23.8	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°	644.1	27.9
0°-40°	1056.8	45.8
0°-60°	1868.0	81.0
0°-90°	2307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2307.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	827	817	823	820	826	79
15°	801	792	797	795	798	226
25°	745	737	742	740	742	343
35°	662	658	660	660	660	414
45°	557	555	555	556	556	430
55°	432	429	428	429	430	385
65°	282	283	282	282	281	278
75°	129	130	128	128	127	137
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°	825.0	825.0	825.0	825.0	825.0
2.5°	829.5	819.9	826.0	822.4	828.0
5°	827.0	817.3	823.4	820.4	826.0
7.5°	822.4	812.7	818.8	815.8	820.4
10°	817.3	807.1	813.7	810.7	815.3
12.5°	810.7	801.0	807.1	804.6	808.6
15°	801.0	791.8	797.4	795.4	798.5
17.5°	789.3	780.1	785.7	784.2	786.7
20°	776.5	767.9	773.5	772.0	774.5
22.5°	762.3	753.1	758.2	757.2	759.2
25°	745.0	736.8	741.9	740.4	742.4
27.5°	726.6	719.0	723.0	723.0	724.1
30°	706.7	699.6	703.7	703.7	704.2
32.5°	685.3	679.7	682.3	682.8	682.8
35°	662.4	657.8	659.9	660.4	660.4
37.5°	638.5	633.9	635.4	636.4	636.4
40°	613.0	608.9	609.9	610.9	610.4
42.5°	585.5	582.4	582.9	583.9	583.9
45°	557.4	554.9	554.9	555.9	555.9
47.5°	528.9	526.4	525.3	526.4	526.4
50°	497.8	495.3	494.3	495.3	495.3
52.5°	465.2	462.7	462.7	462.7	463.2
55°	431.6	429.0	428.0	429.0	429.5
57.5°	395.9	394.9	393.4	393.9	392.3
60°	357.7	357.7	356.2	357.2	356.2
62.5°	320.5	321.5	320.0	320.0	319.0
65°	282.3	283.3	281.8	281.8	280.8
67.5°	243.1	244.6	242.5	242.5	241.5
70°	202.3	205.3	203.3	203.8	202.8
72.5°	165.6	167.1	165.1	165.1	164.1
75°	128.9	129.9	127.9	128.4	126.9
77.5°	92.7	94.3	92.2	92.7	92.2
80°	62.2	62.7	61.1	61.7	60.6
82.5°	36.2	36.7	36.2	35.7	35.2
85°	16.3	16.8	16.3	16.3	15.8
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)