

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: P973429

Luminaire Tested: FLR2-14-30-L840-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30-L840-CA125  
Description: 1\*4 FLR-2.0 3000 LUMEN at 4000 CCT & 80CRI Clear Acrylic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

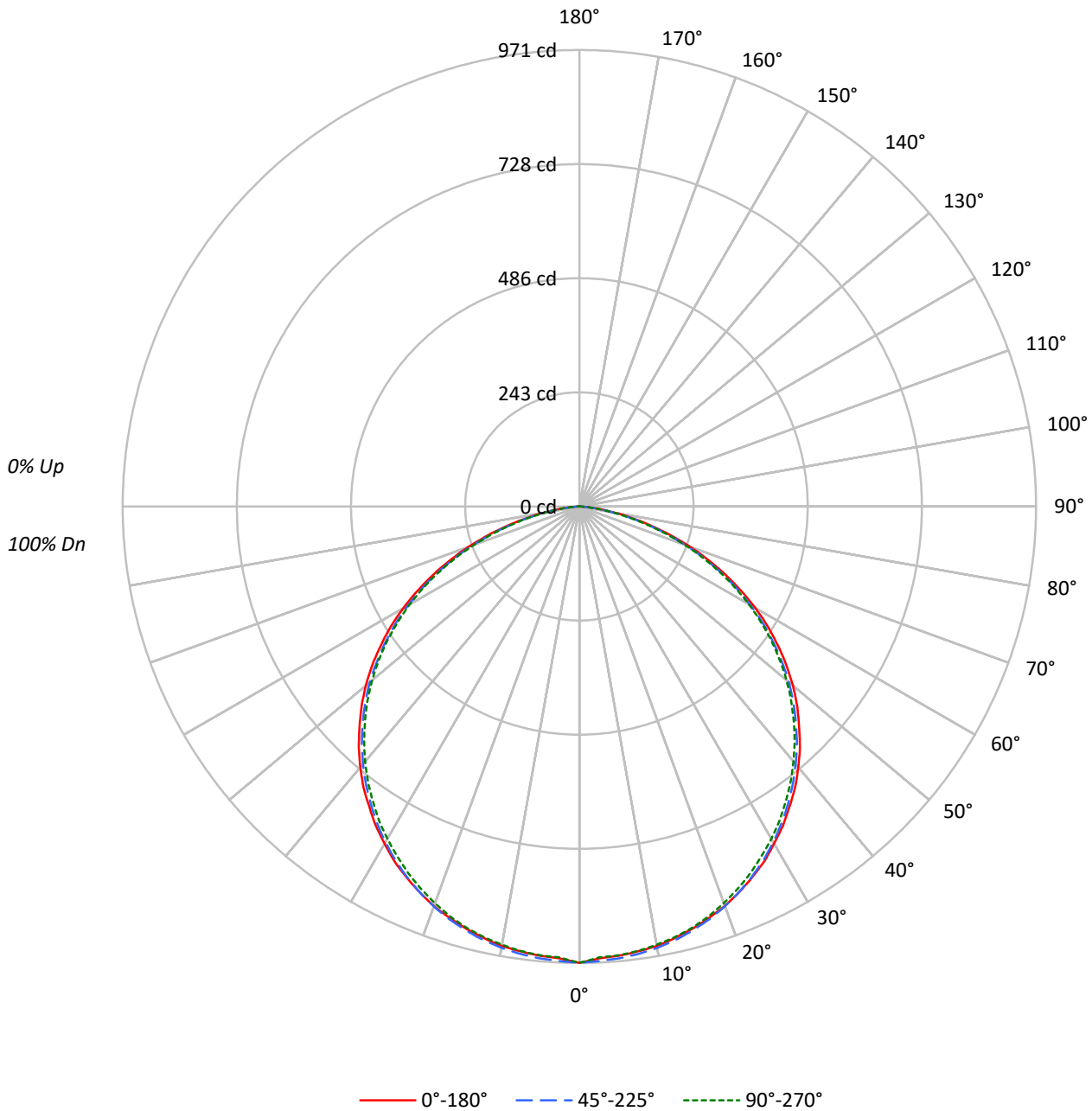
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2717.0 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.9  
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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### 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	62	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	70	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	49	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	38	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	39	32	27	38	32	27	38	31	27	37	31	26	25						25														

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2612	2612	2612
5°	2592	2607	2589
10°	2594	2605	2587
15°	2590	2600	2584
20°	2590	2592	2572
25°	2584	2579	2555
30°	2573	2562	2537
35°	2559	2539	2514
40°	2545	2514	2488
45°	2514	2479	2453
50°	2481	2436	2407
55°	2419	2362	2339
60°	2324	2260	2241
65°	2177	2113	2090
70°	1963	1884	1869
75°	1646	1563	1546
80°	1195	1114	1083
85°	633	559	509

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2514 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	3.4
10°-20°	264.1	9.7
20°-30°	401.2	14.8
30°-40°	485.3	17.9
40°-50°	504.3	18.6
50°-60°	451.5	16.6
60°-70°	329.4	12.1
70°-80°	162.2	6.0
80°-90°	27.1	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°	757.2	27.9
0°-40°	1242.4	45.7
0°-60°	2198.3	80.9
0°-90°	2717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	960	970	965	974	958	91
15°	930	938	933	941	928	263
25°	870	875	869	873	861	401
35°	779	781	773	776	765	488
45°	660	660	651	652	644	510
55°	516	511	503	502	499	460
65°	342	338	332	330	328	338
75°	158	156	150	149	149	169
85°	20	20	18	16	16	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	970.7	970.7	970.7	970.7	970.7
2.5°	962.3	973.1	967.9	977.6	960.3
5°	959.5	969.9	965.1	974.3	958.3
7.5°	954.7	965.5	960.3	969.1	953.9
10°	949.4	959.1	953.5	962.3	946.6
12.5°	940.2	949.8	944.6	952.7	938.2
15°	929.7	938.2	933.4	941.4	927.7
17.5°	917.7	925.7	920.5	927.7	914.1
20°	904.4	910.9	905.2	911.3	898.0
22.5°	888.0	894.0	888.0	892.0	880.3
25°	870.3	874.7	868.7	872.7	860.6
27.5°	851.4	853.8	847.8	851.0	838.5
30°	828.1	830.9	824.5	828.5	816.4
32.5°	805.6	807.2	800.0	803.2	792.3
35°	779.1	780.7	773.0	776.3	765.4
37.5°	753.8	753.4	745.3	747.3	738.1
40°	724.4	724.0	715.6	717.2	708.4
42.5°	694.3	692.7	684.7	685.5	677.4
45°	660.5	659.7	651.3	652.5	644.5
47.5°	628.0	625.6	617.2	617.6	610.7
50°	592.6	589.0	581.8	581.0	575.0
52.5°	554.9	550.9	542.8	542.0	537.6
55°	515.5	511.1	503.4	502.2	498.6
57.5°	474.9	469.3	463.3	460.9	458.0
60°	431.9	426.7	419.9	417.5	416.3
62.5°	387.3	382.1	376.9	374.5	372.9
65°	341.9	337.9	331.9	329.5	328.3
67.5°	295.7	292.1	286.5	283.7	283.3
70°	249.5	245.9	239.5	237.9	237.5
72.5°	203.3	200.1	194.1	192.5	192.5
75°	158.3	155.5	150.3	148.7	148.7
77.5°	115.7	113.3	109.3	107.3	107.3
80°	77.1	75.5	71.9	70.3	69.9
82.5°	44.6	43.8	40.6	39.0	39.8
85°	20.5	19.7	18.1	16.1	16.5
87.5°	5.2	4.8	3.6	2.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)