

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: P973390

Luminaire Tested: FLR2-14-30-L835-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973390  
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-L835-CA125  
Description: 1\*4 FLR-2.0 3000 LUMEN at 3500 CCT & 80CRI Clear Acrylic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

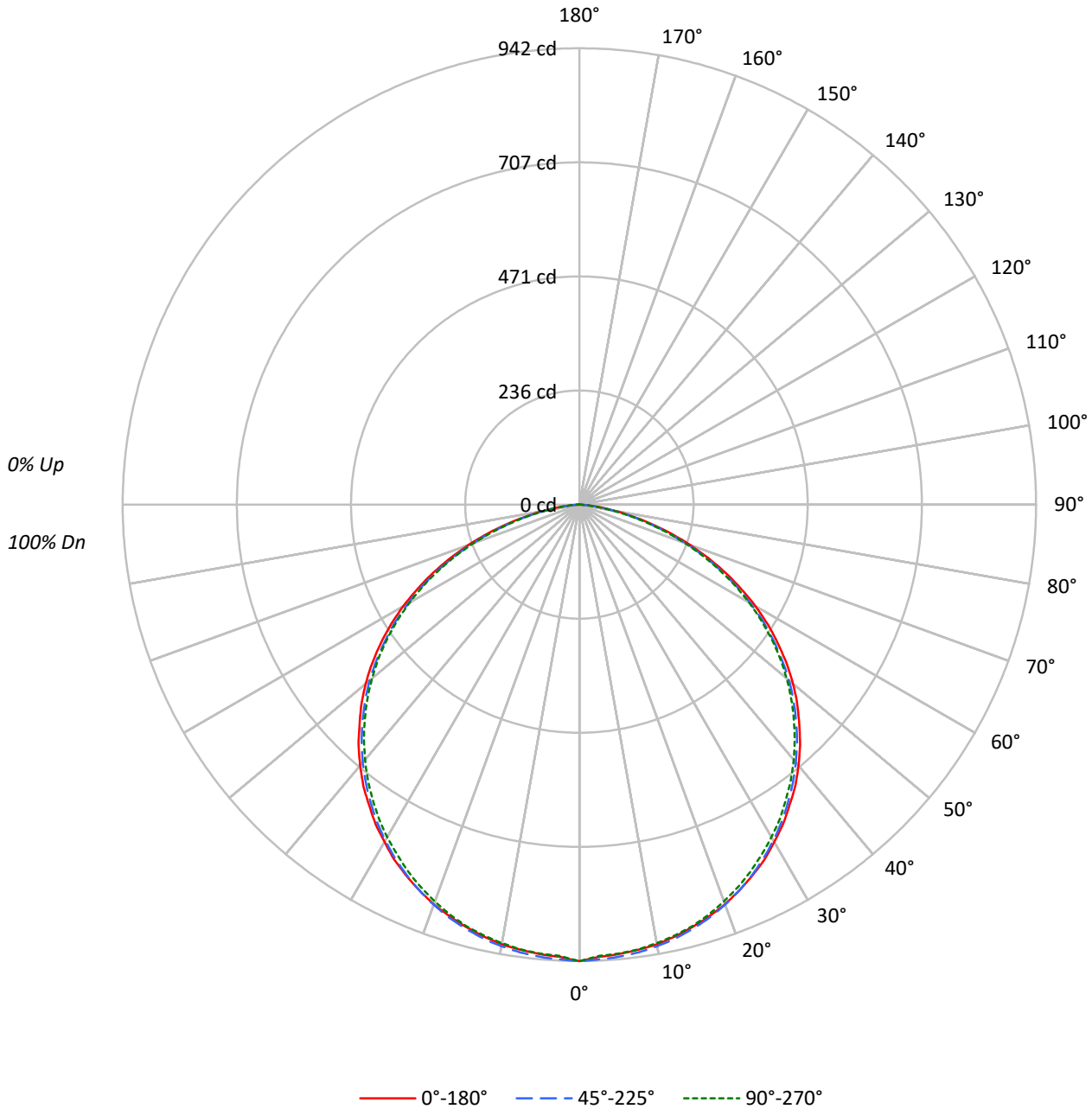
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2637.8 lumens  
Efficiency: N/A  
Efficacy: 110.4 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																				
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	62	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	70	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	49	42	37	48	41	36	47	41	36	34																				
8	61	47	39	33	59	47	38	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	39	32	27	38	32	27	38	31	27	37	31	26	25																				

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

	0°	45°	90°
0°	2536	2536	2536
5°	2516	2531	2513
10°	2519	2529	2511
15°	2515	2525	2509
20°	2515	2517	2497
25°	2509	2504	2481
30°	2498	2487	2463
35°	2485	2465	2441
40°	2471	2441	2416
45°	2441	2406	2381
50°	2409	2365	2337
55°	2348	2293	2271
60°	2257	2194	2175
65°	2114	2052	2029
70°	1906	1829	1814
75°	1598	1517	1500
80°	1161	1082	1052
85°	614	543	494

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.3	3.4
10°-20°	256.4	9.7
20°-30°	389.5	14.8
30°-40°	471.1	17.9
40°-50°	489.6	18.6
50°-60°	438.4	16.6
60°-70°	319.7	12.1
70°-80°	157.5	6.0
80°-90°	26.3	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°	735.1	27.9
0°-40°	1206.2	45.7
0°-60°	2134.3	80.9
0°-90°	2637.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2637.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	932	942	937	946	930	89
15°	903	911	906	914	901	255
25°	845	849	843	847	836	390
35°	756	758	750	754	743	474
45°	641	640	632	634	626	495
55°	500	496	489	488	484	447
65°	332	328	322	320	319	328
75°	154	151	146	144	144	164
85°	20	19	18	16	16	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	942.5	942.5	942.5	942.5	942.5
2.5°	934.3	944.8	939.7	949.1	932.3
5°	931.5	941.7	937.0	946.0	930.4
7.5°	926.9	937.4	932.3	940.9	926.1
10°	921.8	931.1	925.7	934.3	919.1
12.5°	912.8	922.2	917.1	924.9	910.9
15°	902.7	910.9	906.2	914.0	900.7
17.5°	891.0	898.8	893.7	900.7	887.5
20°	878.1	884.3	878.9	884.7	871.9
22.5°	862.1	868.0	862.1	866.0	854.7
25°	844.9	849.2	843.4	847.3	835.6
27.5°	826.6	828.9	823.1	826.2	814.1
30°	804.0	806.7	800.5	804.4	792.7
32.5°	782.1	783.7	776.7	779.8	769.3
35°	756.4	757.9	750.5	753.7	743.1
37.5°	731.8	731.4	723.6	725.6	716.6
40°	703.3	702.9	694.8	696.3	687.7
42.5°	674.1	672.5	664.7	665.5	657.7
45°	641.3	640.5	632.3	633.5	625.7
47.5°	609.7	607.4	599.2	599.6	592.9
50°	575.4	571.9	564.9	564.1	558.2
52.5°	538.7	534.8	527.0	526.2	521.9
55°	500.5	496.2	488.8	487.6	484.1
57.5°	461.1	455.6	449.8	447.4	444.7
60°	419.3	414.3	407.6	405.3	404.1
62.5°	376.0	371.0	365.9	363.6	362.0
65°	332.0	328.1	322.2	319.9	318.7
67.5°	287.1	283.6	278.1	275.4	275.0
70°	242.2	238.7	232.5	230.9	230.5
72.5°	197.4	194.3	188.4	186.9	186.9
75°	153.7	151.0	145.9	144.3	144.3
77.5°	112.3	110.0	106.1	104.2	104.2
80°	74.9	73.3	69.8	68.3	67.9
82.5°	43.3	42.5	39.4	37.8	38.6
85°	19.9	19.1	17.6	15.6	16.0
87.5°	5.1	4.7	3.5	2.7	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)