

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: P973375

Luminaire Tested: FLR2-14-30-L835-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973375  
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-CP125  
Description: 1\*4 FLR-2.0 3000 LUMEN at 3500 CCT & 80CRI Clear Polycarbonate (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

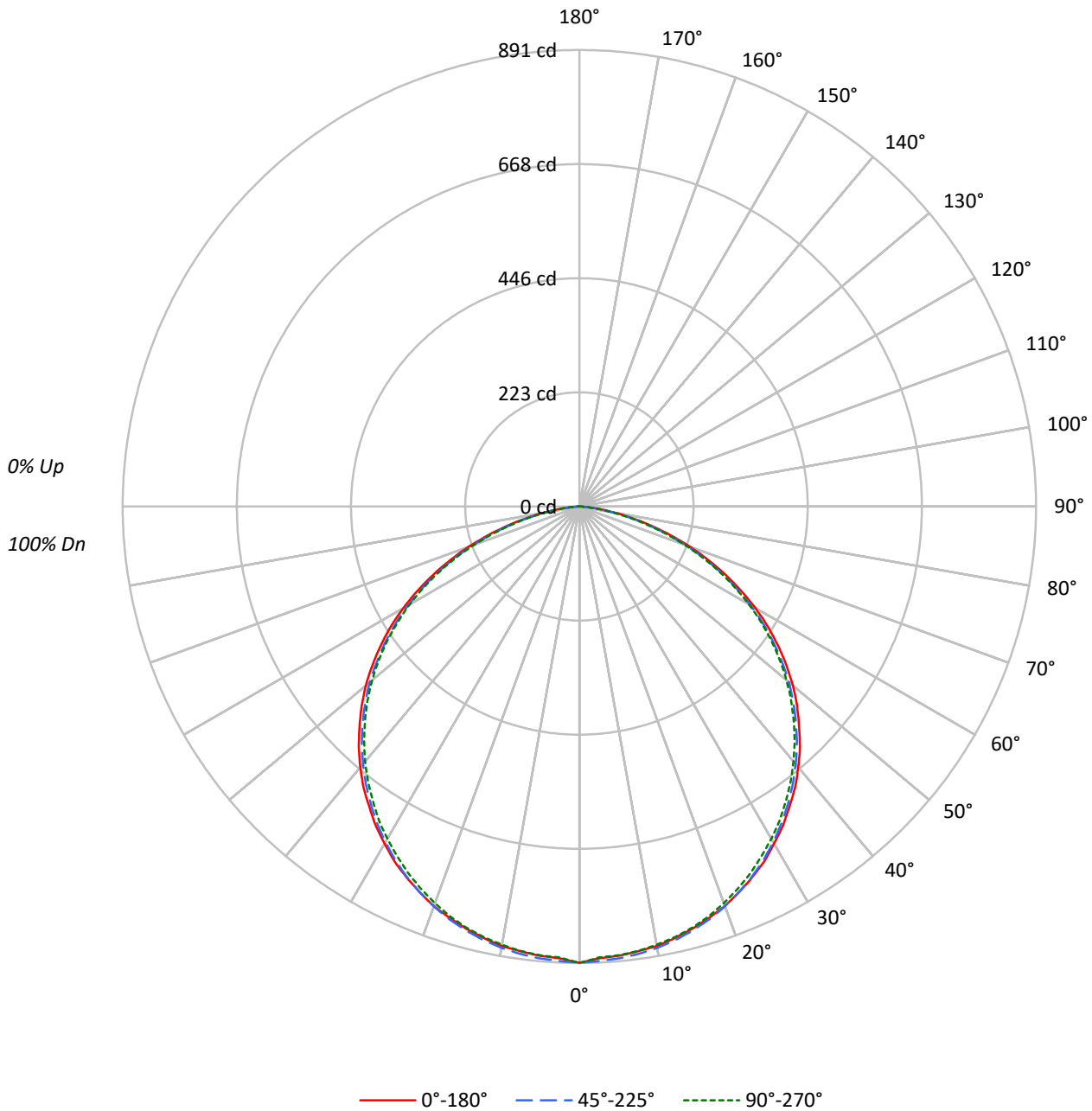
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2492.9 lumens  
Efficiency: N/A  
Efficacy: 104.3 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									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°	2397	2397	2397
5°	2378	2392	2375
10°	2381	2390	2373
15°	2377	2386	2371
20°	2377	2379	2360
25°	2371	2367	2345
30°	2361	2351	2328
35°	2348	2330	2307
40°	2335	2307	2283
45°	2307	2274	2250
50°	2277	2235	2209
55°	2219	2167	2146
60°	2133	2074	2055
65°	1997	1939	1918
70°	1801	1729	1714
75°	1511	1434	1418
80°	1097	1023	993
85°	580	513	466

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2307 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.4	3.4
10°-20°	242.3	9.7
20°-30°	368.1	14.8
30°-40°	445.2	17.9
40°-50°	462.7	18.6
50°-60°	414.3	16.6
60°-70°	302.2	12.1
70°-80°	148.8	6.0
80°-90°	24.9	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°	694.7	27.9
0°-40°	1140.0	45.7
0°-60°	2017.0	80.9
0°-90°	2492.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2492.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	880	890	886	894	879	84
15°	853	861	856	864	851	241
25°	798	803	797	801	790	368
35°	715	716	709	712	702	448
45°	606	605	598	599	591	468
55°	473	469	462	461	458	422
65°	314	310	304	302	301	310
75°	145	143	138	136	136	155
85°	19	18	17	15	15	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	890.7	890.7	890.7	890.7	890.7
2.5°	882.9	892.9	888.1	897.0	881.1
5°	880.4	890.0	885.5	894.0	879.3
7.5°	875.9	885.9	881.1	889.2	875.2
10°	871.2	880.0	874.8	882.9	868.6
12.5°	862.7	871.5	866.7	874.1	860.8
15°	853.1	860.8	856.4	863.8	851.2
17.5°	842.0	849.4	844.6	851.2	838.7
20°	829.9	835.8	830.6	836.1	824.0
22.5°	814.7	820.3	814.7	818.4	807.7
25°	798.5	802.6	797.1	800.7	789.7
27.5°	781.2	783.4	777.9	780.8	769.4
30°	759.8	762.4	756.5	760.2	749.1
32.5°	739.2	740.6	734.0	737.0	727.0
35°	714.8	716.3	709.3	712.3	702.3
37.5°	691.6	691.2	683.9	685.7	677.2
40°	664.7	664.3	656.6	658.1	650.0
42.5°	637.1	635.6	628.2	628.9	621.6
45°	606.1	605.3	597.6	598.7	591.3
47.5°	576.2	574.0	566.3	566.6	560.4
50°	543.8	540.5	533.8	533.1	527.6
52.5°	509.1	505.4	498.1	497.3	493.3
55°	473.0	468.9	461.9	460.8	457.5
57.5°	435.8	430.6	425.1	422.9	420.3
60°	396.3	391.5	385.3	383.0	381.9
62.5°	355.4	350.6	345.8	343.6	342.1
65°	313.7	310.0	304.5	302.3	301.2
67.5°	271.3	268.0	262.9	260.3	259.9
70°	228.9	225.6	219.7	218.2	217.9
72.5°	186.5	183.6	178.1	176.6	176.6
75°	145.3	142.7	137.9	136.4	136.4
77.5°	106.2	104.0	100.3	98.4	98.4
80°	70.8	69.3	66.0	64.5	64.1
82.5°	40.9	40.2	37.2	35.8	36.5
85°	18.8	18.1	16.6	14.7	15.1
87.5°	4.8	4.4	3.3	2.6	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)