

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: P973378

Luminaire Tested: FLR2-14-30-L835-CP187

Issue Date: 3/13/2025

**Test Information**

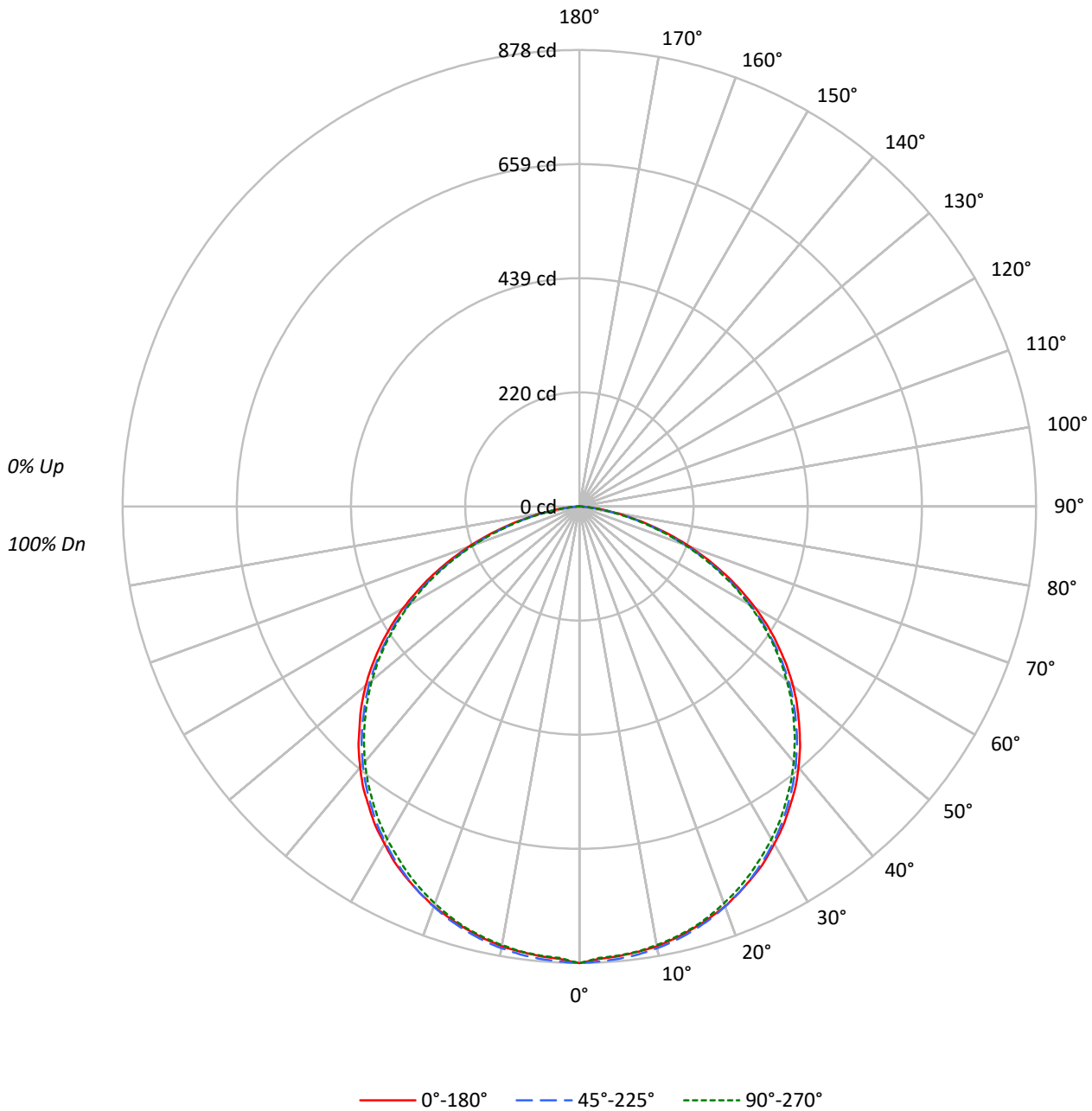
Test Method: LM-79-2019  
Report Number: P973378  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30-L835-CP187  
Description: 1\*4 FLR-2.0 3000 LUMEN at 3500 CCT & 80CRI Clear Polycarbonate (0.187" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2458.8 lumens  
Efficiency: N/A  
Efficacy: 102.9 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°	2364	2364	2364
5°	2346	2359	2343
10°	2348	2358	2341
15°	2344	2353	2339
20°	2344	2346	2327
25°	2339	2334	2313
30°	2329	2319	2296
35°	2316	2298	2276
40°	2303	2275	2252
45°	2275	2243	2219
50°	2245	2204	2178
55°	2189	2137	2117
60°	2104	2045	2027
65°	1970	1913	1892
70°	1777	1705	1691
75°	1490	1414	1398
80°	1082	1009	981
85°	571	506	460

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2275 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	3.4
10°-20°	239.0	9.7
20°-30°	363.0	14.8
30°-40°	439.2	17.9
40°-50°	456.4	18.6
50°-60°	408.6	16.6
60°-70°	298.1	12.1
70°-80°	146.8	6.0
80°-90°	24.5	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°	685.2	27.9
0°-40°	1124.4	45.7
0°-60°	1989.5	80.9
0°-90°	2458.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2458.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	868	878	873	882	867	83
15°	841	849	845	852	840	238
25°	788	792	786	790	779	363
35°	705	706	700	702	693	442
45°	598	597	589	590	583	462
55°	466	462	456	454	451	416
65°	309	306	300	298	297	306
75°	143	141	136	134	134	153
85°	18	18	16	14	15	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	878.5	878.5	878.5	878.5	878.5
2.5°	870.9	880.7	876.0	884.7	869.1
5°	868.3	877.8	873.4	881.8	867.2
7.5°	864.0	873.8	869.1	877.1	863.2
10°	859.2	868.0	862.9	870.9	856.7
12.5°	850.9	859.6	854.9	862.1	849.1
15°	841.4	849.1	844.7	852.0	839.6
17.5°	830.5	837.8	833.1	839.6	827.2
20°	818.5	824.3	819.2	824.7	812.7
22.5°	803.6	809.1	803.6	807.2	796.7
25°	787.6	791.6	786.2	789.8	778.9
27.5°	770.5	772.7	767.2	770.2	758.9
30°	749.4	752.0	746.2	749.8	738.9
32.5°	729.1	730.5	724.0	726.9	717.1
35°	705.1	706.5	699.6	702.5	692.7
37.5°	682.2	681.8	674.5	676.3	668.0
40°	655.6	655.2	647.6	649.1	641.1
42.5°	628.3	626.9	619.6	620.3	613.1
45°	597.8	597.1	589.4	590.5	583.2
47.5°	568.3	566.2	558.5	558.9	552.7
50°	536.3	533.1	526.5	525.8	520.3
52.5°	502.2	498.5	491.3	490.5	486.5
55°	466.5	462.5	455.6	454.5	451.3
57.5°	429.8	424.7	419.3	417.1	414.5
60°	390.9	386.2	380.0	377.8	376.7
62.5°	350.5	345.8	341.1	338.9	337.4
65°	309.4	305.8	300.4	298.2	297.1
67.5°	267.6	264.4	259.3	256.7	256.4
70°	225.8	222.5	216.7	215.3	214.9
72.5°	184.0	181.1	175.6	174.2	174.2
75°	143.3	140.7	136.0	134.5	134.5
77.5°	104.7	102.5	98.9	97.1	97.1
80°	69.8	68.4	65.1	63.6	63.3
82.5°	40.4	39.6	36.7	35.3	36.0
85°	18.5	17.8	16.4	14.5	14.9
87.5°	4.7	4.4	3.3	2.5	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)