

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: P973387

Luminaire Tested: FLR2-14-30-L835-CA080

Issue Date: 3/13/2025

**Test Information**

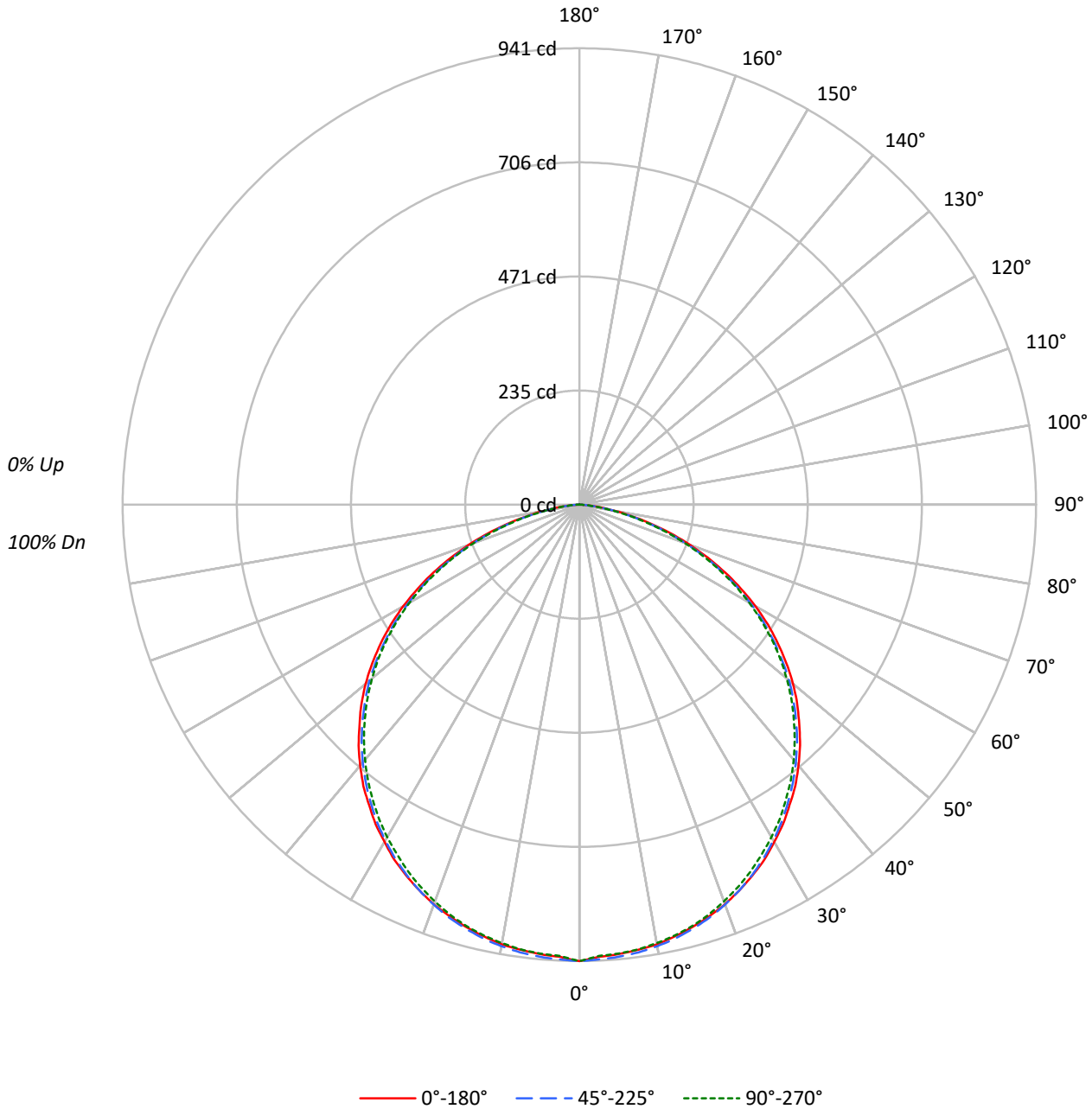
Test Method: LM-79-2019  
Report Number: P973387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-30-L835-CA080  
Description: 1\*4 FLR-2.0 3000 LUMEN at 3500 CCT & 80CRI with Clear Acrylic (0.080" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2635.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 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				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	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°	2533	2533	2533
5°	2514	2528	2511
10°	2516	2527	2509
15°	2512	2522	2506
20°	2512	2514	2494
25°	2506	2502	2478
30°	2495	2485	2460
35°	2482	2463	2439
40°	2468	2438	2413
45°	2438	2404	2379
50°	2406	2362	2334
55°	2345	2291	2269
60°	2255	2192	2173
65°	2111	2050	2027
70°	1904	1827	1812
75°	1596	1515	1499
80°	1159	1082	1051
85°	614	540	494

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2438 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.2	3.4
10°-20°	256.1	9.7
20°-30°	389.1	14.8
30°-40°	470.6	17.9
40°-50°	489.1	18.6
50°-60°	437.9	16.6
60°-70°	319.4	12.1
70°-80°	157.3	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°	734.3	27.9
0°-40°	1204.9	45.7
0°-60°	2132.0	80.9
0°-90°	2635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2635.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	930	941	936	945	929	89
15°	902	910	905	913	900	255
25°	844	848	842	846	835	389
35°	756	757	750	753	742	473
45°	641	640	632	633	625	495
55°	500	496	488	487	484	446
65°	332	328	322	320	318	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°	941.4	941.4	941.4	941.4	941.4
2.5°	933.3	943.8	938.7	948.1	931.3
5°	930.5	940.7	936.0	944.9	929.4
7.5°	925.9	936.4	931.3	939.9	925.1
10°	920.8	930.1	924.7	933.3	918.1
12.5°	911.8	921.2	916.1	923.9	909.9
15°	901.7	909.9	905.2	913.0	899.7
17.5°	890.0	897.8	892.7	899.7	886.5
20°	877.1	883.4	877.9	883.8	870.9
22.5°	861.2	867.0	861.2	865.1	853.8
25°	844.0	848.3	842.5	846.4	834.7
27.5°	825.7	828.0	822.2	825.3	813.2
30°	803.1	805.8	799.6	803.5	791.8
32.5°	781.3	782.8	775.8	779.0	768.4
35°	755.6	757.1	749.7	752.8	742.3
37.5°	731.0	730.6	722.8	724.8	715.8
40°	702.6	702.2	694.0	695.6	687.0
42.5°	673.3	671.8	664.0	664.8	657.0
45°	640.6	639.8	631.7	632.8	625.0
47.5°	609.1	606.7	598.5	598.9	592.3
50°	574.8	571.3	564.2	563.5	557.6
52.5°	538.1	534.2	526.4	525.7	521.4
55°	499.9	495.7	488.3	487.1	483.6
57.5°	460.6	455.1	449.3	447.0	444.2
60°	418.9	413.8	407.2	404.9	403.7
62.5°	375.6	370.6	365.5	363.2	361.6
65°	331.6	327.7	321.9	319.5	318.4
67.5°	286.8	283.3	277.8	275.1	274.7
70°	242.0	238.5	232.2	230.7	230.3
72.5°	197.2	194.1	188.2	186.7	186.7
75°	153.5	150.8	145.7	144.2	144.2
77.5°	112.2	109.9	106.0	104.0	104.0
80°	74.8	73.3	69.8	68.2	67.8
82.5°	43.3	42.5	39.4	37.8	38.6
85°	19.9	19.1	17.5	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)