

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: P973412

Luminaire Tested: FLR2-14-42-L935-CA125

Issue Date: 3/13/2025

**Test Information**

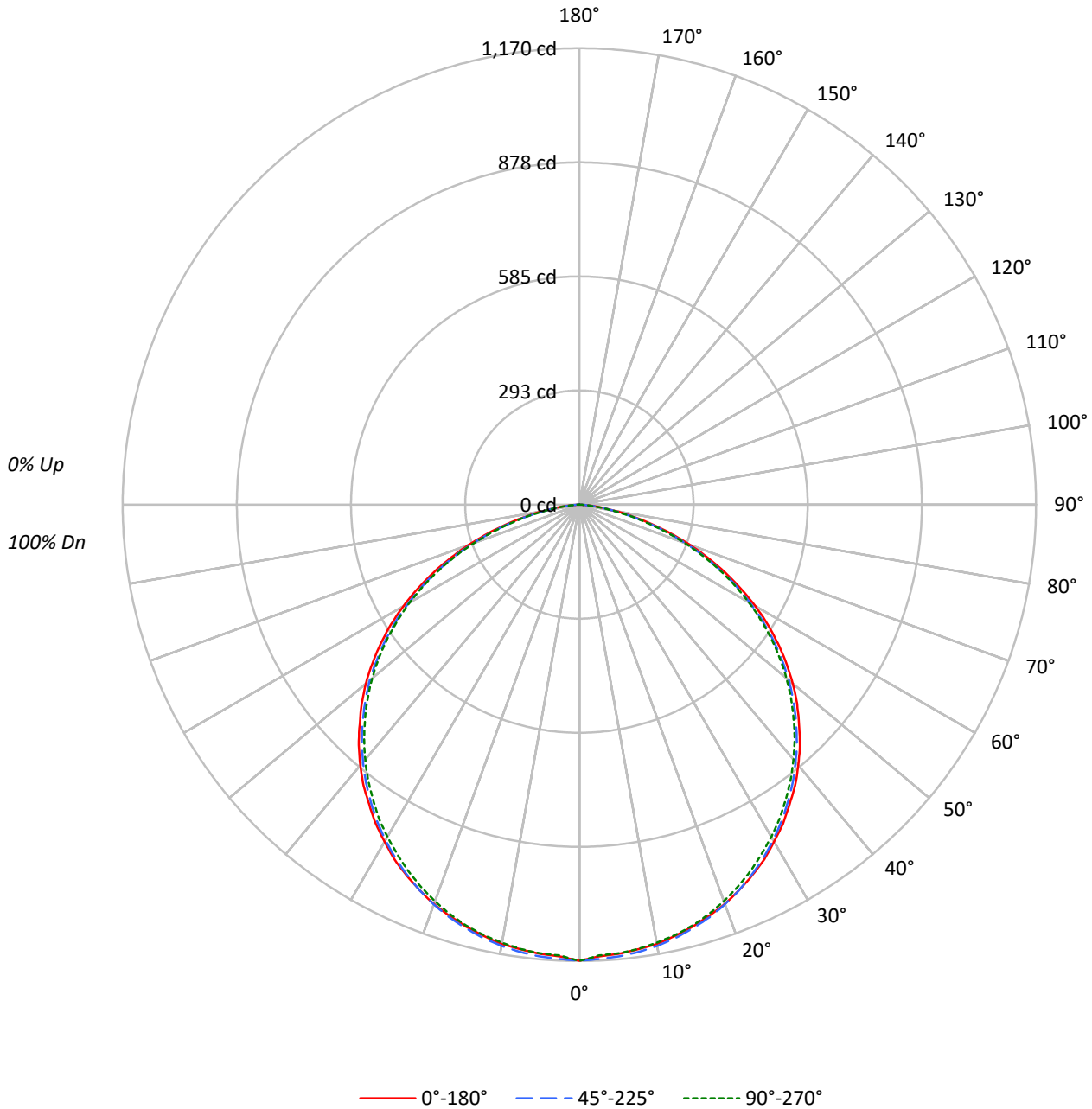
Test Method: LM-79-2019  
Report Number: P973412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42-L935-CA125  
Description: 1\*4 FLR-2.0 4200 LUMEN at 3500 CCT & 90 CRI with Clear Acrylic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3273.2 lumens  
Efficiency: N/A  
Efficacy: 103.3 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): 31.7  
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	3147	3147	3147
5°	3122	3141	3119
10°	3125	3139	3116
15°	3120	3133	3114
20°	3120	3123	3098
25°	3113	3107	3079
30°	3100	3086	3056
35°	3083	3059	3029
40°	3066	3028	2998
45°	3029	2986	2955
50°	2989	2934	2900
55°	2913	2845	2818
60°	2801	2722	2699
65°	2623	2546	2518
70°	2365	2270	2251
75°	1983	1882	1862
80°	1440	1342	1305
85°	763	673	611

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3029 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.8	3.4
10°-20°	318.1	9.7
20°-30°	483.3	14.8
30°-40°	584.6	17.9
40°-50°	607.6	18.6
50°-60°	544.0	16.6
60°-70°	396.8	12.1
70°-80°	195.4	6.0
80°-90°	32.7	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°	912.2	27.9
0°-40°	1496.8	45.7
0°-60°	2648.4	80.9
0°-90°	3273.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1156	1168	1163	1174	1154	110
15°	1120	1130	1124	1134	1118	316
25°	1048	1054	1046	1051	1037	483
35°	939	940	931	935	922	588
45°	796	795	785	786	776	614
55°	621	616	606	605	601	554
65°	412	407	400	397	396	407
75°	191	187	181	179	179	203
85°	25	24	22	19	20	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1169.5	1169.5	1169.5	1169.5	1169.5
2.5°	1159.3	1172.4	1166.1	1177.7	1156.9
5°	1155.9	1168.5	1162.7	1173.8	1154.5
7.5°	1150.1	1163.2	1156.9	1167.6	1149.2
10°	1143.8	1155.5	1148.7	1159.3	1140.4
12.5°	1132.7	1144.3	1138.0	1147.7	1130.3
15°	1120.1	1130.3	1124.5	1134.2	1117.7
17.5°	1105.6	1115.3	1109.0	1117.7	1101.2
20°	1089.6	1097.4	1090.6	1097.8	1081.9
22.5°	1069.8	1077.0	1069.8	1074.6	1060.6
25°	1048.5	1053.8	1046.5	1051.4	1036.9
27.5°	1025.7	1028.6	1021.4	1025.2	1010.2
30°	997.6	1001.0	993.3	998.1	983.6
32.5°	970.5	972.5	963.8	967.6	954.6
35°	938.6	940.5	931.3	935.2	922.1
37.5°	908.1	907.6	897.9	900.4	889.2
40°	872.8	872.3	862.1	864.0	853.4
42.5°	836.5	834.5	824.8	825.8	816.1
45°	795.8	794.8	784.7	786.1	776.4
47.5°	756.6	753.7	743.5	744.0	735.8
50°	714.0	709.6	700.9	700.0	692.7
52.5°	668.5	663.6	654.0	653.0	647.7
55°	621.0	615.7	606.5	605.1	600.7
57.5°	572.2	565.4	558.1	555.2	551.8
60°	520.4	514.1	505.8	502.9	501.5
62.5°	466.6	460.3	454.0	451.1	449.2
65°	411.9	407.1	399.8	396.9	395.5
67.5°	356.3	351.9	345.1	341.7	341.3
70°	300.6	296.2	288.5	286.6	286.1
72.5°	244.9	241.1	233.8	231.9	231.9
75°	190.7	187.3	181.0	179.1	179.1
77.5°	139.4	136.5	131.7	129.2	129.2
80°	92.9	91.0	86.6	84.7	84.2
82.5°	53.7	52.8	48.9	47.0	47.9
85°	24.7	23.7	21.8	19.4	19.8
87.5°	6.3	5.8	4.4	3.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)