

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: P973187

Luminaire Tested: FLR2-14-70HE-L935-CA125

Issue Date: 3/13/2025

**Test Information**

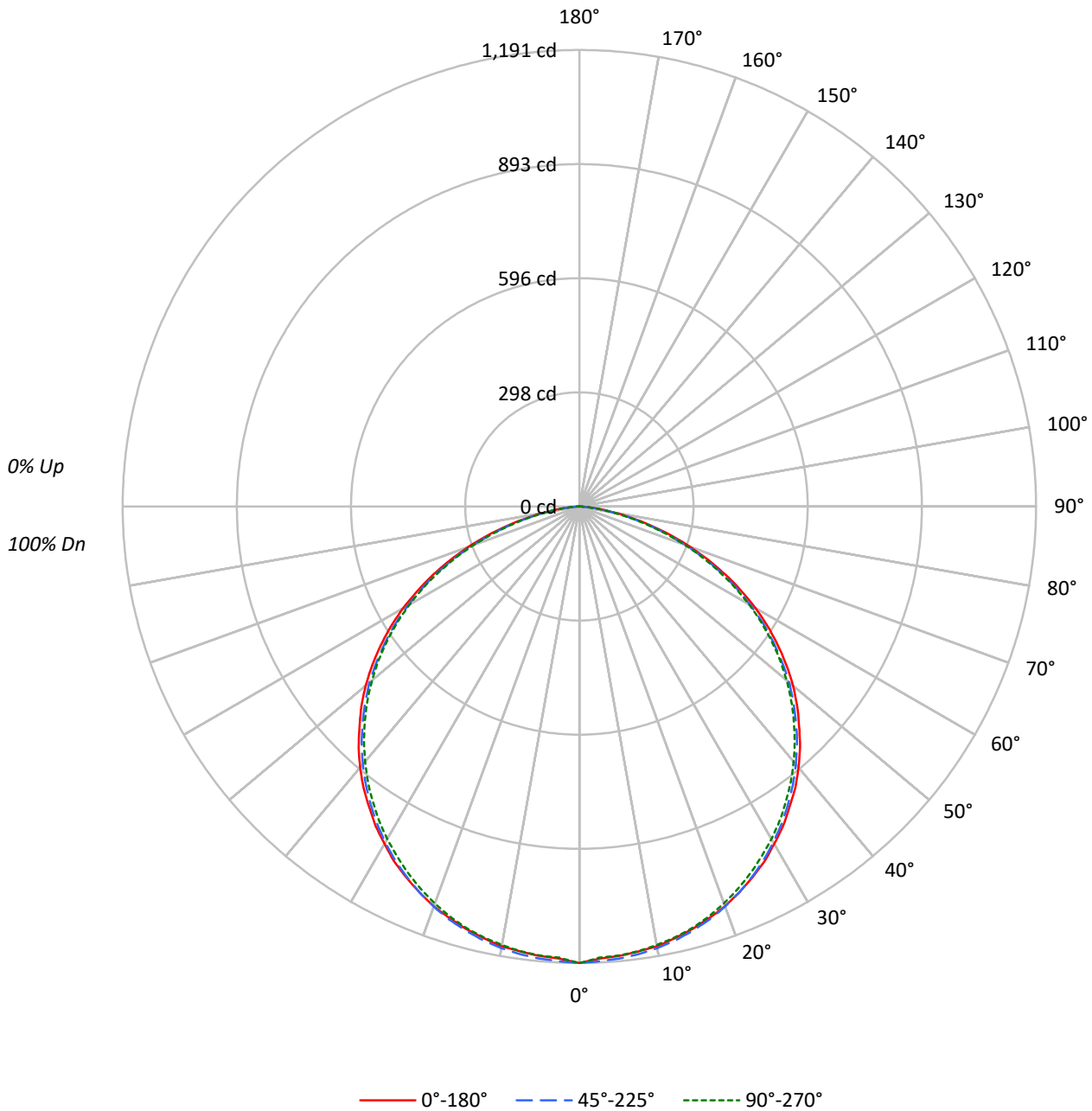
Test Method: LM-79-2019  
Report Number: P973187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-70HE-L935-CA125  
Description: 1\*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 90 CRI Clear Aryalic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3334.3 lumens  
Efficiency: N/A  
Efficacy: 63.5 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): 52.5  
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°	3206	3206	3206
5°	3181	3199	3177
10°	3184	3197	3174
15°	3179	3191	3172
20°	3179	3181	3156
25°	3171	3165	3136
30°	3158	3144	3113
35°	3141	3117	3086
40°	3123	3085	3054
45°	3085	3042	3010
50°	3045	2989	2954
55°	2968	2898	2871
60°	2853	2773	2749
65°	2672	2593	2565
70°	2409	2312	2293
75°	2020	1917	1896
80°	1468	1368	1330
85°	775	685	624

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3085 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	3.4
10°-20°	324.1	9.7
20°-30°	492.3	14.8
30°-40°	595.5	17.9
40°-50°	618.9	18.6
50°-60°	554.1	16.6
60°-70°	404.2	12.1
70°-80°	199.0	6.0
80°-90°	33.3	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°	929.2	27.9
0°-40°	1524.7	45.7
0°-60°	2697.8	80.9
0°-90°	3334.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3334.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1178	1190	1184	1196	1176	112
15°	1141	1151	1146	1155	1139	322
25°	1068	1074	1066	1071	1056	492
35°	956	958	949	953	939	599
45°	811	810	799	801	791	626
55°	633	627	618	616	612	565
65°	420	415	407	404	403	414
75°	194	191	184	182	182	207
85°	25	24	22	20	20	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1191.3	1191.3	1191.3	1191.3	1191.3
2.5°	1181.0	1194.3	1187.9	1199.7	1178.5
5°	1177.5	1190.3	1184.4	1195.8	1176.0
7.5°	1171.6	1184.9	1178.5	1189.3	1170.6
10°	1165.2	1177.0	1170.1	1181.0	1161.7
12.5°	1153.8	1165.7	1159.3	1169.1	1151.4
15°	1141.0	1151.4	1145.5	1155.3	1138.6
17.5°	1126.2	1136.1	1129.7	1138.6	1121.8
20°	1110.0	1117.8	1110.9	1118.3	1102.1
22.5°	1089.7	1097.1	1089.7	1094.7	1080.4
25°	1068.0	1073.5	1066.1	1071.0	1056.2
27.5°	1044.9	1047.8	1040.4	1044.4	1029.1
30°	1016.3	1019.7	1011.8	1016.8	1002.0
32.5°	988.7	990.6	981.8	985.7	972.4
35°	956.1	958.1	948.7	952.7	939.3
37.5°	925.0	924.6	914.7	917.2	905.8
40°	889.1	888.6	878.2	880.2	869.3
42.5°	852.1	850.1	840.2	841.2	831.4
45°	810.6	809.7	799.3	800.8	790.9
47.5°	770.7	767.7	757.4	757.9	749.5
50°	727.3	722.9	714.0	713.0	705.6
52.5°	681.0	676.0	666.2	665.2	659.8
55°	632.6	627.2	617.8	616.4	611.9
57.5°	582.8	575.9	568.5	565.6	562.1
60°	530.1	523.7	515.3	512.3	510.8
62.5°	475.3	468.9	462.5	459.6	457.6
65°	419.6	414.7	407.3	404.3	402.9
67.5°	362.9	358.5	351.6	348.1	347.6
70°	306.2	301.8	293.9	291.9	291.4
72.5°	249.5	245.6	238.2	236.2	236.2
75°	194.3	190.8	184.4	182.4	182.4
77.5°	142.0	139.1	134.1	131.7	131.7
80°	94.7	92.7	88.3	86.3	85.8
82.5°	54.7	53.7	49.8	47.8	48.8
85°	25.1	24.2	22.2	19.7	20.2
87.5°	6.4	5.9	4.4	3.5	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)