

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: P973117

Luminaire Tested: FLR2-14-70HE-L930-CA125

Issue Date: 3/13/2025

**Test Information**

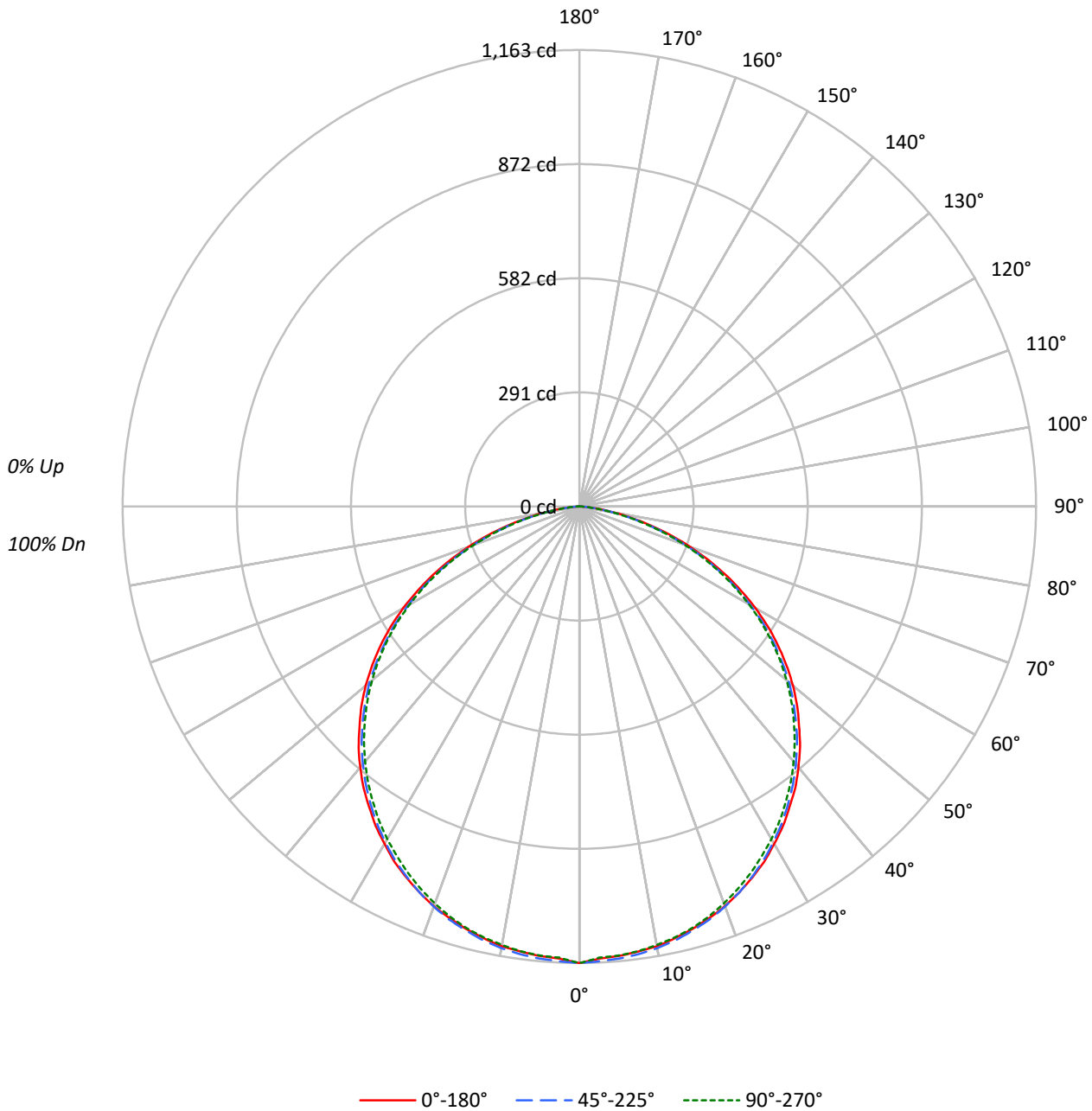
Test Method: LM-79-2019  
Report Number: P973117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-70HE-L930-CA125  
Description: 1\*4 FLR-2.0 7000 Lumen High Efficacy at 3000CCT & 90 CRI Clear Aryalic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3255.9 lumens  
Efficiency: N/A  
Efficacy: 62.0 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°	3130	3130	3130
5°	3106	3124	3102
10°	3109	3122	3100
15°	3104	3116	3097
20°	3104	3107	3082
25°	3097	3091	3062
30°	3084	3070	3040
35°	3067	3043	3013
40°	3049	3012	2982
45°	3013	2970	2939
50°	2973	2919	2884
55°	2898	2830	2803
60°	2786	2708	2685
65°	2609	2532	2505
70°	2353	2258	2239
75°	1972	1873	1853
80°	1432	1336	1299
85°	760	670	608

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3013 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	3.4
10°-20°	316.4	9.7
20°-30°	480.7	14.8
30°-40°	581.5	17.9
40°-50°	604.4	18.6
50°-60°	541.1	16.6
60°-70°	394.7	12.1
70°-80°	194.4	6.0
80°-90°	32.5	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°	907.3	27.9
0°-40°	1488.9	45.7
0°-60°	2634.4	80.9
0°-90°	3255.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3255.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1150	1162	1156	1168	1148	109
15°	1114	1124	1118	1128	1112	315
25°	1043	1048	1041	1046	1031	481
35°	934	936	926	930	917	585
45°	792	791	780	782	772	611
55°	618	612	603	602	598	551
65°	410	405	398	395	393	405
75°	190	186	180	178	178	202
85°	25	24	22	19	20	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1163.3	1163.3	1163.3	<i>1163.3</i>	1163.3
2.5°	<i>1153.2</i>	<i>1166.2</i>	<i>1159.9</i>	<i>1171.5</i>	<i>1150.8</i>
5°	1149.8	1162.3	1156.5	<i>1167.6</i>	1148.4
7.5°	1144.0	1157.0	1150.8	<i>1161.4</i>	1143.1
10°	1137.8	1149.3	1142.6	<i>1153.2</i>	1134.4
12.5°	1126.7	1138.2	1132.0	<i>1141.6</i>	1124.3
15°	1114.2	1124.3	1118.5	<i>1128.1</i>	1111.8
17.5°	1099.7	1109.4	1103.1	<i>1111.8</i>	1095.4
20°	1083.8	1091.5	1084.8	<i>1092.0</i>	1076.1
22.5°	1064.1	1071.3	1064.1	<i>1068.9</i>	1055.0
25°	1042.9	1048.2	1041.0	<i>1045.8</i>	1031.4
27.5°	1020.3	1023.2	1015.9	<i>1019.8</i>	1004.9
30°	992.4	995.7	988.0	<i>992.8</i>	978.4
32.5°	965.4	967.3	958.7	<i>962.5</i>	949.5
35°	933.6	935.5	926.4	<i>930.2</i>	917.2
37.5°	903.3	902.8	893.2	<i>895.6</i>	884.5
40°	868.1	867.6	857.5	<i>859.5</i>	848.9
42.5°	832.0	830.1	820.5	<i>821.4</i>	811.8
45°	791.6	790.6	780.5	<i>781.9</i>	772.3
47.5°	752.6	749.7	739.6	<i>740.1</i>	731.9
50°	710.2	705.9	697.2	<i>696.2</i>	689.0
52.5°	664.9	660.1	650.5	<i>649.5</i>	644.2
55°	617.8	612.5	603.3	<i>601.9</i>	597.5
57.5°	569.1	562.4	555.2	<i>552.3</i>	548.9
60°	517.6	511.3	503.2	<i>500.3</i>	498.8
62.5°	464.2	457.9	451.6	<i>448.8</i>	446.8
65°	409.8	404.9	397.7	<i>394.8</i>	393.4
67.5°	354.4	350.0	343.3	<i>339.9</i>	339.5
70°	299.0	294.7	287.0	<i>285.0</i>	284.6
72.5°	243.6	239.8	232.6	<i>230.6</i>	230.6
75°	189.7	186.3	180.1	<i>178.2</i>	178.2
77.5°	138.7	135.8	131.0	<i>128.6</i>	128.6
80°	92.4	90.5	86.2	<i>84.3</i>	83.8
82.5°	53.4	52.5	48.6	<i>46.7</i>	47.7
85°	24.6	23.6	21.7	<i>19.3</i>	19.7
87.5°	6.3	5.8	4.3	<i>3.4</i>	4.3
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)