

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: P973327

Luminaire Tested: FLR2-14-70HE-L950-CA125

Issue Date: 3/13/2025

**Test Information**

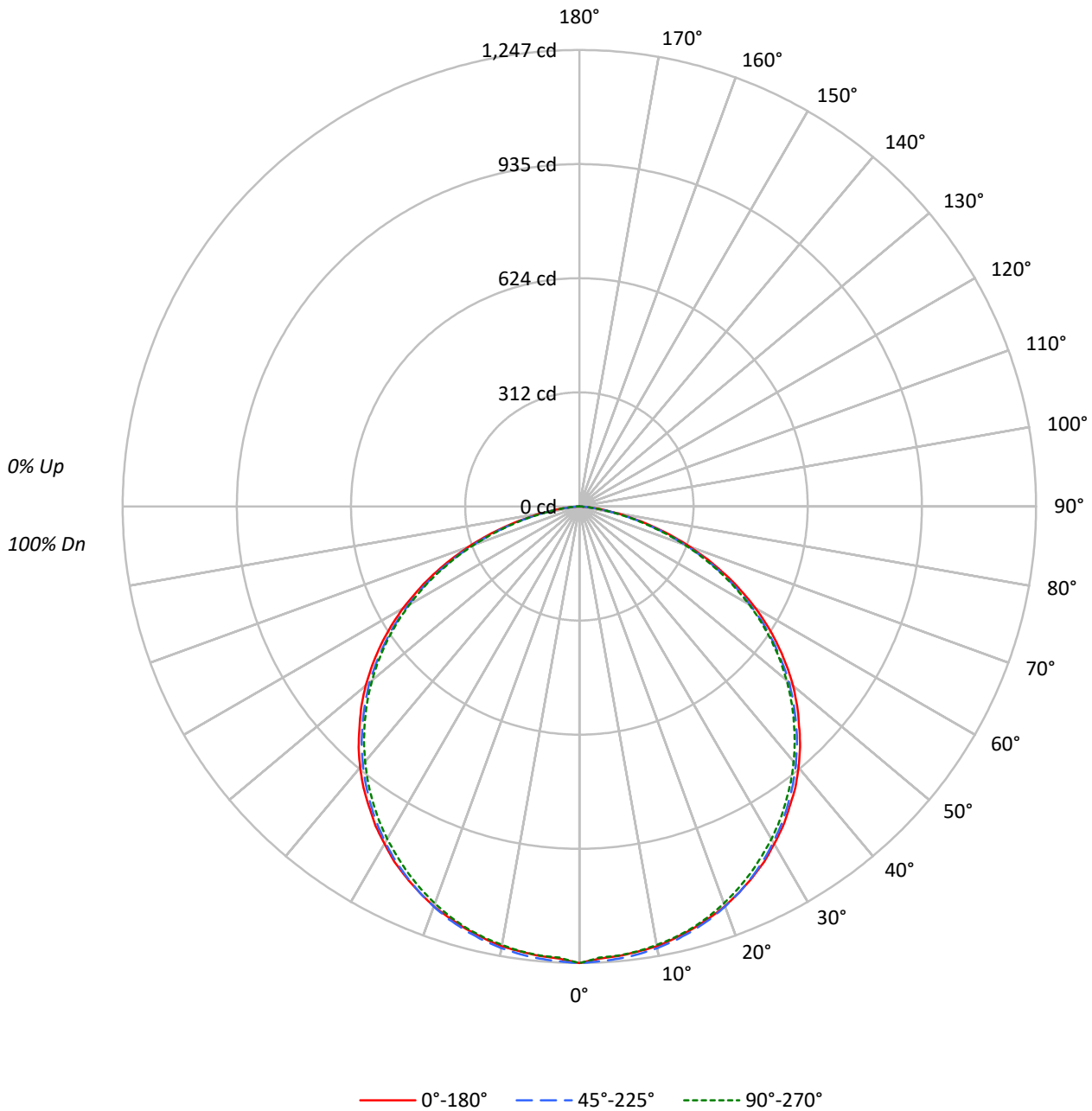
Test Method: LM-79-2019  
Report Number: P973327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-70HE-L950-CA125  
Description: 1\*4 FLR-2.0 7000 Lumen High Efficacy at 5000CCT & 90 CRI Clear Aryalic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3491.2 lumens  
Efficiency: N/A  
Efficacy: 66.5 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										
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°	3357	3357	3357
5°	3330	3350	3326
10°	3334	3348	3324
15°	3328	3341	3321
20°	3328	3331	3304
25°	3320	3314	3284
30°	3306	3292	3260
35°	3289	3263	3231
40°	3270	3230	3197
45°	3230	3185	3151
50°	3188	3130	3093
55°	3108	3035	3006
60°	2987	2904	2879
65°	2798	2716	2686
70°	2522	2421	2400
75°	2115	2008	1986
80°	1536	1432	1392
85°	812	716	655

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3230 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.2	3.4
10°-20°	339.3	9.7
20°-30°	515.5	14.8
30°-40°	623.6	17.9
40°-50°	648.1	18.6
50°-60°	580.2	16.6
60°-70°	423.2	12.1
70°-80°	208.4	6.0
80°-90°	34.8	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°	972.9	27.9
0°-40°	1596.5	45.7
0°-60°	2824.8	80.9
0°-90°	3491.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1233	1246	1240	1252	1231	117
15°	1195	1206	1199	1210	1192	337
25°	1118	1124	1116	1121	1106	516
35°	1001	1003	993	998	984	627
45°	849	848	837	838	828	655
55°	662	657	647	645	641	591
65°	439	434	426	423	422	434
75°	203	200	193	191	191	217
85°	26	25	23	21	21	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1247.4	1247.4	1247.4	1247.4	1247.4
2.5°	1236.5	1250.5	1243.8	1256.2	1234.0
5°	1232.9	1246.3	1240.2	1252.0	1231.4
7.5°	1226.7	1240.7	1234.0	1245.3	1225.7
10°	1220.0	1232.4	1225.2	1236.5	1216.4
12.5°	1208.1	1220.5	1213.8	1224.1	1205.6
15°	1194.7	1205.6	1199.4	1209.7	1192.1
17.5°	1179.2	1189.6	1182.8	1192.1	1174.6
20°	1162.2	1170.5	1163.2	1171.0	1153.9
22.5°	1141.0	1148.8	1141.0	1146.2	1131.2
25°	1118.3	1124.0	1116.2	1121.4	1105.9
27.5°	1094.0	1097.1	1089.4	1093.5	1077.5
30°	1064.1	1067.7	1059.4	1064.6	1049.1
32.5°	1035.2	1037.2	1028.0	1032.1	1018.1
35°	1001.1	1003.2	993.4	997.5	983.6
37.5°	968.6	968.1	957.7	960.3	948.4
40°	930.9	930.4	919.5	921.6	910.2
42.5°	892.2	890.1	879.8	880.8	870.5
45°	848.8	847.8	836.9	838.5	828.1
47.5°	807.0	803.9	793.0	793.6	784.8
50°	761.5	756.9	747.6	746.6	738.8
52.5°	713.0	707.8	697.5	696.5	690.8
55°	662.4	656.7	646.9	645.4	640.7
57.5°	610.3	603.0	595.3	592.2	588.6
60°	555.0	548.3	539.5	536.4	534.9
62.5°	497.7	491.0	484.3	481.2	479.1
65°	439.4	434.2	426.5	423.4	421.8
67.5°	380.0	375.3	368.1	364.5	364.0
70°	320.6	316.0	307.7	305.6	305.1
72.5°	261.2	257.1	249.4	247.3	247.3
75°	203.4	199.8	193.1	191.0	191.0
77.5°	148.7	145.6	140.4	137.9	137.9
80°	99.1	97.1	92.4	90.4	89.8
82.5°	57.3	56.3	52.1	50.1	51.1
85°	26.3	25.3	23.2	20.7	21.2
87.5°	6.7	6.2	4.6	3.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)