

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: P973257

Luminaire Tested: FLR2-14-70HE-L940-CA125

Issue Date: 3/13/2025

**Test Information**

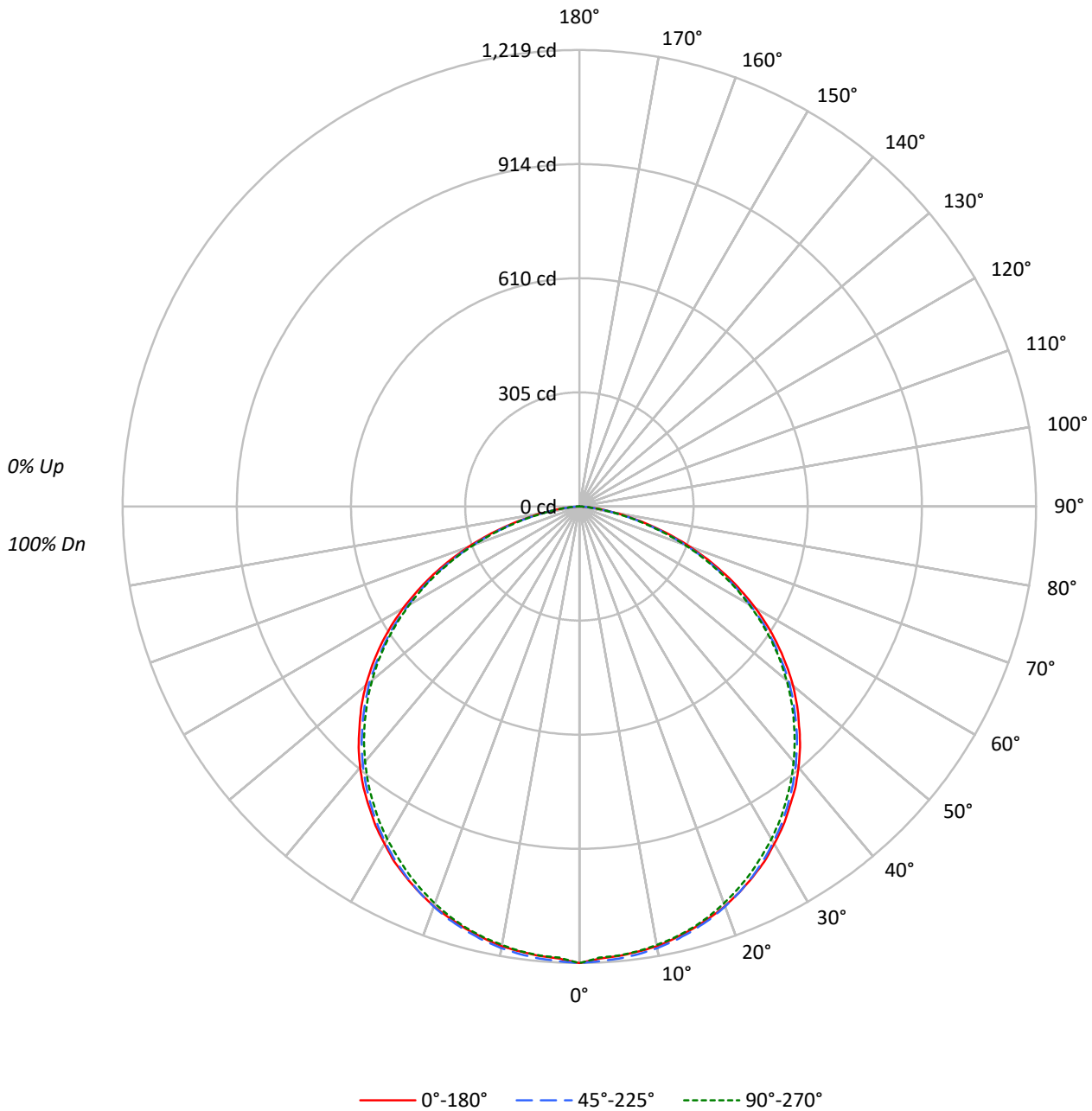
Test Method: LM-79-2019  
Report Number: P973257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-70HE-L940-CA125  
Description: 1\*4 FLR-2.0 7000 Lumen High Efficacy at 4000CCT & 90 CRI Clear Aryalic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3412.8 lumens  
Efficiency: N/A  
Efficacy: 65.0 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										
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°	3281	3281	3281
5°	3256	3275	3252
10°	3259	3272	3249
15°	3254	3266	3246
20°	3253	3256	3230
25°	3246	3240	3210
30°	3232	3218	3187
35°	3215	3190	3158
40°	3197	3158	3126
45°	3158	3113	3081
50°	3116	3059	3023
55°	3038	2967	2938
60°	2920	2838	2814
65°	2735	2655	2625
70°	2466	2367	2347
75°	2068	1963	1941
80°	1502	1399	1361
85°	794	701	639

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3158 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	3.4
10°-20°	331.7	9.7
20°-30°	503.9	14.8
30°-40°	609.5	17.9
40°-50°	633.5	18.6
50°-60°	567.2	16.6
60°-70°	413.7	12.1
70°-80°	203.7	6.0
80°-90°	34.1	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°	951.1	27.9
0°-40°	1560.6	45.7
0°-60°	2761.3	80.9
0°-90°	3412.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1205	1218	1212	1224	1204	115
15°	1168	1178	1172	1182	1165	330
25°	1093	1099	1091	1096	1081	504
35°	979	981	971	975	961	613
45°	830	829	818	820	810	641
55°	648	642	632	631	626	578
65°	430	424	417	414	412	424
75°	199	195	189	187	187	212
85°	26	25	23	20	21	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1219.3	1219.3	1219.3	1219.3	1219.3
2.5°	1208.7	1222.4	1215.8	1227.9	1206.2
5°	1205.2	1218.3	1212.3	1223.9	1203.7
7.5°	1199.2	1212.8	1206.2	1217.3	1198.2
10°	1192.6	1204.7	1197.6	1208.7	1189.1
12.5°	1181.0	1193.1	1186.5	1196.6	1178.5
15°	1167.9	1178.5	1172.4	1182.5	1165.3
17.5°	1152.7	1162.8	1156.3	1165.3	1148.2
20°	1136.1	1144.1	1137.1	1144.7	1128.0
22.5°	1115.4	1123.0	1115.4	1120.4	1105.8
25°	1093.2	1098.7	1091.2	1096.2	1081.1
27.5°	1069.5	1072.5	1064.9	1068.9	1053.3
30°	1040.2	1043.7	1035.6	1040.7	1025.5
32.5°	1011.9	1013.9	1004.9	1008.9	995.3
35°	978.6	980.6	971.0	975.1	961.4
37.5°	946.8	946.3	936.2	938.7	927.1
40°	910.0	909.5	898.9	900.9	889.8
42.5°	872.1	870.1	860.0	861.0	850.9
45°	829.7	828.7	818.1	819.6	809.5
47.5°	788.8	785.8	775.2	775.7	767.1
50°	744.4	739.9	730.8	729.8	722.2
52.5°	697.0	691.9	681.8	680.8	675.3
55°	647.5	642.0	632.4	630.9	626.3
57.5°	596.6	589.5	581.9	578.9	575.4
60°	542.5	536.0	527.4	524.4	522.9
62.5°	486.5	480.0	473.4	470.4	468.4
65°	429.5	424.5	416.9	413.9	412.3
67.5°	371.5	366.9	359.8	356.3	355.8
70°	313.4	308.9	300.8	298.8	298.3
72.5°	255.4	251.3	243.8	241.7	241.7
75°	198.9	195.3	188.8	186.7	186.7
77.5°	145.4	142.3	137.3	134.8	134.8
80°	96.9	94.9	90.3	88.3	87.8
82.5°	56.0	55.0	51.0	49.0	50.0
85°	25.7	24.7	22.7	20.2	20.7
87.5°	6.6	6.1	4.5	3.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)