

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: P973454

Luminaire Tested: FLR2-14-42-L940-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973454  
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-L940-CA125  
Description: 1\*4 FLR-2.0 4200 LUMEN at 4000 CCT & 90 CRI with Clear Acrylic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

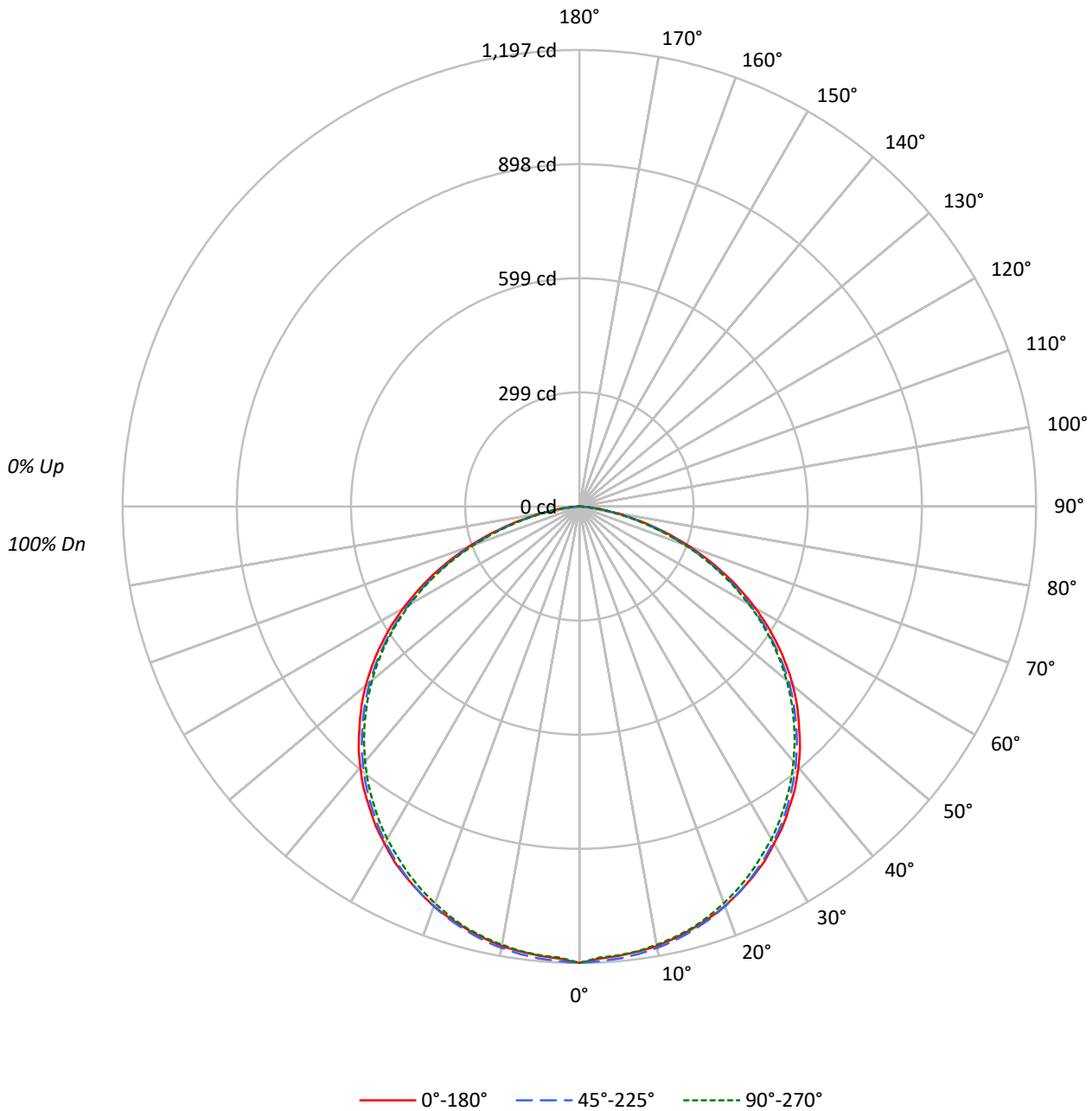
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3350.3 lumens  
Efficiency: N/A  
Efficacy: 105.7 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

TEST NUMBER: P973454  
CATALOG NUMBER: FLR2-14-42-L940-CA125

### Luminous Intensity Polar Plot





TEST NUMBER: P973454  
 CATALOG NUMBER: FLR2-14-42-L940-CA125

**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°	3221	3221	3221
5°	3196	3215	3192
10°	3199	3213	3190
15°	3194	3206	3187
20°	3194	3196	3171
25°	3186	3181	3151
30°	3173	3159	3128
35°	3156	3131	3100
40°	3138	3100	3068
45°	3100	3056	3024
50°	3059	3003	2968
55°	2982	2913	2885
60°	2866	2786	2763
65°	2684	2606	2578
70°	2421	2323	2304
75°	2030	1927	1906
80°	1474	1375	1336
85°	781	689	627

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3100 cd/sqm



TEST NUMBER: P973454  
 CATALOG NUMBER: FLR2-14-42-L940-CA125

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.4	3.4
10°-20°	325.6	9.7
20°-30°	494.7	14.8
30°-40°	598.4	17.9
40°-50°	621.9	18.6
50°-60°	556.8	16.6
60°-70°	406.1	12.1
70°-80°	200.0	6.0
80°-90°	33.4	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°	933.6	27.9
0°-40°	1532.0	45.7
0°-60°	2710.7	80.9
0°-90°	3350.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1183	1196	1190	1202	1182	113
15°	1146	1157	1151	1161	1144	324
25°	1073	1079	1071	1076	1061	495
35°	961	963	953	957	944	602
45°	814	814	803	805	795	629
55°	636	630	621	619	615	567
65°	422	417	409	406	405	416
75°	195	192	185	183	183	208
85°	25	24	22	20	20	36
90°	0	0	0	0	0	



TEST NUMBER: P973454  
 CATALOG NUMBER: FLR2-14-42-L940-CA125

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1197.0	1197.0	1197.0	1197.0	1197.0
2.5°	1186.6	1200.0	1193.5	1205.4	1184.1
5°	1183.1	1196.0	1190.1	1201.5	1181.6
7.5°	1177.2	1190.6	1184.1	1195.0	1176.2
10°	1170.7	1182.6	1175.7	1186.6	1167.3
12.5°	1159.4	1171.2	1164.8	1174.7	1156.9
15°	1146.5	1156.9	1150.9	1160.8	1144.0
17.5°	1131.6	1141.5	1135.1	1144.0	1127.1
20°	1115.3	1123.2	1116.2	1123.7	1107.3
22.5°	1094.9	1102.4	1094.9	1099.9	1085.5
25°	1073.1	1078.6	1071.2	1076.1	1061.3
27.5°	1049.9	1052.8	1045.4	1049.4	1034.0
30°	1021.1	1024.6	1016.7	1021.6	1006.8
32.5°	993.4	995.4	986.4	990.4	977.0
35°	960.7	962.7	953.2	957.2	943.8
37.5°	929.5	929.0	919.1	921.5	910.1
40°	893.3	892.8	882.4	884.4	873.5
42.5°	856.1	854.2	844.2	845.2	835.3
45°	814.5	813.5	803.1	804.6	794.7
47.5°	774.4	771.4	761.0	761.5	753.1
50°	730.8	726.3	717.4	716.4	709.0
52.5°	684.2	679.3	669.4	668.4	662.9
55°	635.7	630.2	620.8	619.3	614.9
57.5°	585.6	578.7	571.3	568.3	564.8
60°	532.6	526.2	517.7	514.8	513.3
62.5°	477.6	471.2	464.7	461.8	459.8
65°	421.6	416.7	409.2	406.3	404.8
67.5°	364.7	360.2	353.3	349.8	349.3
70°	307.7	303.2	295.3	293.3	292.8
72.5°	250.7	246.7	239.3	237.3	237.3
75°	195.2	191.7	185.3	183.3	183.3
77.5°	142.7	139.7	134.8	132.3	132.3
80°	95.1	93.1	88.7	86.7	86.2
82.5°	55.0	54.0	50.0	48.1	49.0
85°	25.3	24.3	22.3	19.8	20.3
87.5°	6.4	5.9	4.5	3.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)