

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: P973475

Luminaire Tested: FLR2-14-42-L850-CA125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973475  
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-L850-CA125  
Description: 1\*4 FLR-2.0 4200 LUMEN at 5000 CCT & 80CRI with Clear Acrylic (0.125" thickness)  
  
Light Source:  
Ballast/Driver: -

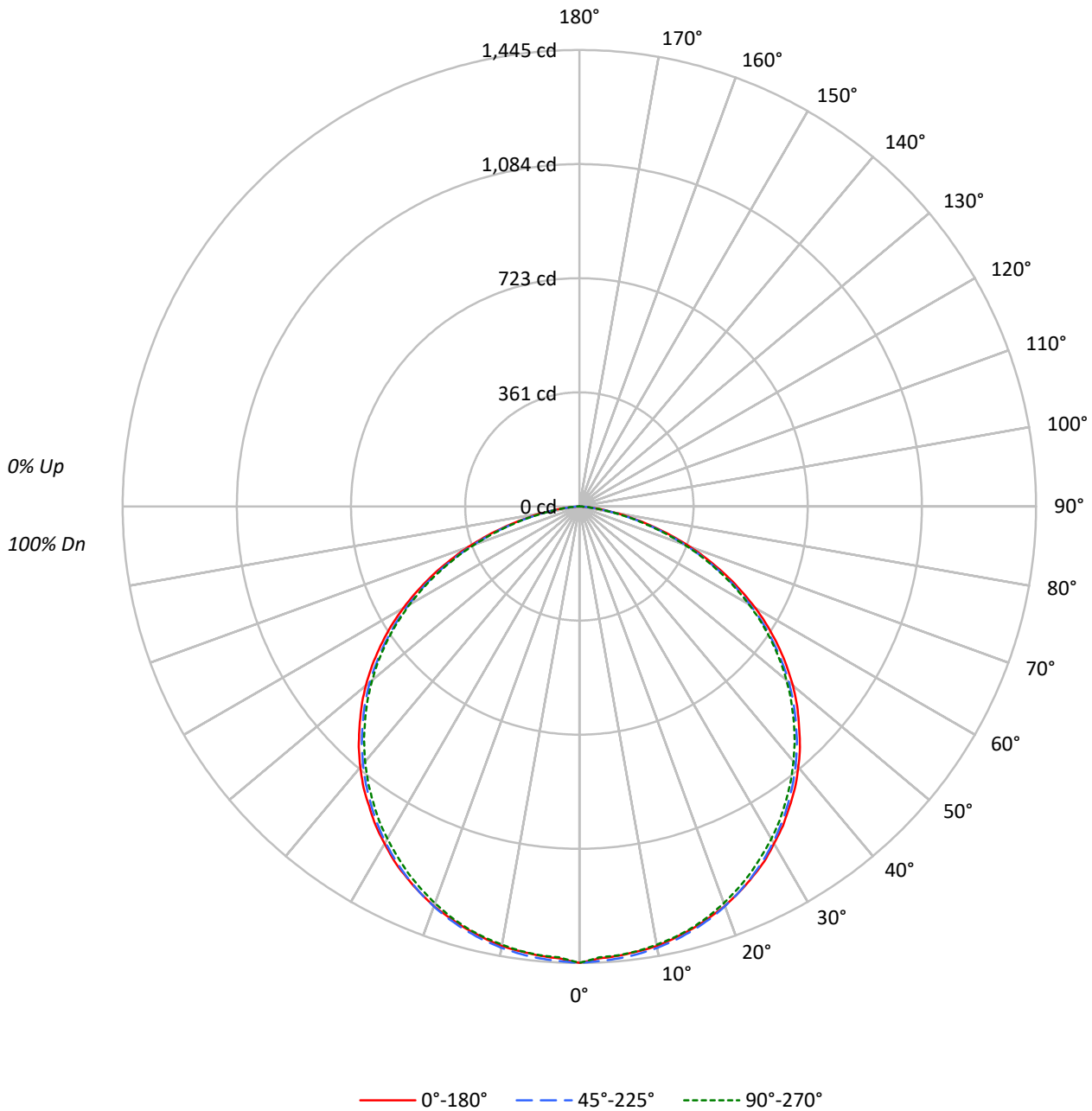
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4043.4 lumens  
Efficiency: N/A  
Efficacy: 127.6 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: P973475  
CATALOG NUMBER: FLR2-14-42-L850-CA125

### Luminous Intensity Polar Plot





TEST NUMBER: P973475  
 CATALOG NUMBER: FLR2-14-42-L850-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																				
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°	3888	3888	3888
5°	3857	3880	3852
10°	3861	3877	3850
15°	3855	3870	3847
20°	3855	3858	3827
25°	3846	3839	3803
30°	3829	3813	3775
35°	3809	3779	3742
40°	3787	3741	3703
45°	3741	3689	3650
50°	3692	3625	3582
55°	3599	3515	3482
60°	3460	3363	3334
65°	3240	3145	3110
70°	2921	2804	2781
75°	2450	2325	2300
80°	1779	1658	1612
85°	942	831	756

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3741 cd/sqm



TEST NUMBER: P973475  
 CATALOG NUMBER: FLR2-14-42-L850-CA125

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.8	3.4
10°-20°	393.0	9.7
20°-30°	597.0	14.8
30°-40°	722.2	17.9
40°-50°	750.6	18.6
50°-60°	672.0	16.6
60°-70°	490.1	12.1
70°-80°	241.3	6.0
80°-90°	40.4	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°	1126.8	27.9
0°-40°	1849.0	45.7
0°-60°	3271.6	80.9
0°-90°	4043.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4043.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1428	1444	1436	1450	1426	136
15°	1384	1396	1389	1401	1381	391
25°	1295	1302	1293	1299	1281	597
35°	1159	1162	1150	1155	1139	726
45°	983	982	969	971	959	759
55°	767	761	749	747	742	685
65°	509	503	494	490	488	503
75°	236	231	224	221	221	251
85°	30	29	27	24	24	44
90°	0	0	0	0	0	



TEST NUMBER: P973475  
 CATALOG NUMBER: FLR2-14-42-L850-CA125

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1444.7	1444.7	1444.7	1444.7	1444.7
2.5°	1432.1	1448.3	1440.5	1454.8	1429.1
5°	1427.9	1443.5	1436.3	1450.0	1426.1
7.5°	1420.7	1436.9	1429.1	1442.3	1419.5
10°	1413.0	1427.3	1419.0	1432.1	1408.8
12.5°	1399.2	1413.6	1405.8	1417.8	1396.2
15°	1383.7	1396.2	1389.1	1401.0	1380.7
17.5°	1365.7	1377.7	1369.9	1380.7	1360.4
20°	1346.0	1355.6	1347.2	1356.2	1336.4
22.5°	1321.5	1330.5	1321.5	1327.5	1310.1
25°	1295.2	1301.8	1292.8	1298.8	1280.8
27.5°	1267.1	1270.7	1261.7	1266.5	1247.9
30°	1232.4	1236.6	1227.0	1233.0	1215.0
32.5°	1198.9	1201.3	1190.5	1195.3	1179.2
35°	1159.4	1161.8	1150.5	1155.3	1139.1
37.5°	1121.8	1121.2	1109.2	1112.2	1098.4
40°	1078.1	1077.5	1065.0	1067.4	1054.2
42.5°	1033.3	1030.9	1018.9	1020.1	1008.2
45°	983.0	981.8	969.3	971.1	959.1
47.5°	934.6	931.0	918.5	919.1	908.9
50°	882.0	876.6	865.8	864.6	855.7
52.5°	825.8	819.8	807.8	806.6	800.1
55°	767.2	760.6	749.2	747.4	742.1
57.5°	706.8	698.4	689.4	685.9	681.7
60°	642.8	635.0	624.9	621.3	619.5
62.5°	576.4	568.7	560.9	557.3	554.9
65°	508.9	502.9	493.9	490.3	488.5
67.5°	440.1	434.7	426.3	422.2	421.6
70°	371.3	365.9	356.4	354.0	353.4
72.5°	302.6	297.8	288.8	286.4	286.4
75°	235.6	231.4	223.6	221.2	221.2
77.5°	172.2	168.6	162.6	159.7	159.7
80°	114.8	112.4	107.0	104.6	104.0
82.5°	66.4	65.2	60.4	58.0	59.2
85°	30.5	29.3	26.9	23.9	24.5
87.5°	7.8	7.2	5.4	4.2	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)