

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: P973487

Luminaire Tested: FLR2-14-42-L950-CP250

Issue Date: 3/13/2025

**Test Information**

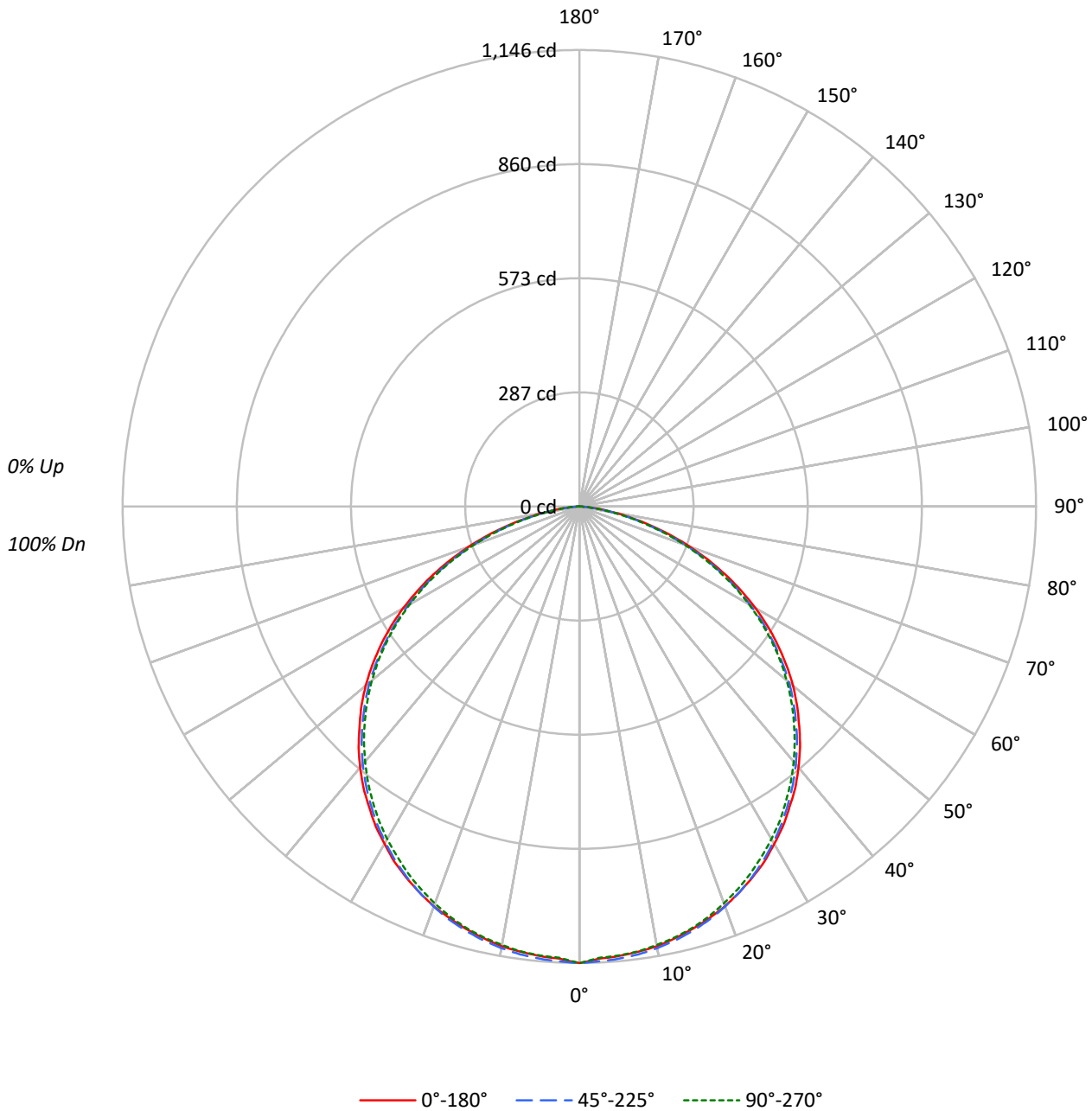
Test Method: LM-79-2019  
Report Number: P973487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42-L950-CP250  
Description: 1\*4 FLR-2.0 4200 LUMEN at 5000 CCT & 90 CRI with Clear Polycarbonate (0.250" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3208.9 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

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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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	3085	3085	3085
5°	3061	3079	3057
10°	3064	3077	3055
15°	3059	3071	3053
20°	3059	3062	3037
25°	3052	3046	3018
30°	3039	3026	2996
35°	3023	2999	2970
40°	3006	2969	2939
45°	2969	2927	2897
50°	2930	2876	2843
55°	2856	2790	2763
60°	2745	2669	2646
65°	2571	2496	2469
70°	2319	2225	2207
75°	1944	1845	1826
80°	1412	1316	1280
85°	747	661	602

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2969 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.6	3.4
10°-20°	311.9	9.7
20°-30°	473.8	14.8
30°-40°	573.1	17.9
40°-50°	595.7	18.6
50°-60°	533.3	16.6
60°-70°	389.0	12.1
70°-80°	191.5	6.0
80°-90°	32.0	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°	894.3	27.9
0°-40°	1467.4	45.7
0°-60°	2596.3	80.9
0°-90°	3208.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3208.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1146	1146	1146	1146	1146	
5°	1133	1146	1140	1151	1132	108
15°	1098	1108	1102	1112	1096	310
25°	1028	1033	1026	1031	1016	474
35°	920	922	913	917	904	576
45°	780	779	769	771	761	602
55°	609	604	595	593	589	543
65°	404	399	392	389	388	399
75°	187	184	178	176	176	199
85°	24	23	21	19	20	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1146.5	1146.5	1146.5	1146.5	1146.5
2.5°	1136.5	1149.3	1143.2	1154.6	1134.2
5°	1133.2	1145.5	1139.8	1150.8	1131.8
7.5°	1127.5	1140.3	1134.2	1144.6	1126.6
10°	1121.3	1132.7	1126.1	1136.5	1118.0
12.5°	1110.4	1121.8	1115.6	1125.1	1108.1
15°	1098.1	1108.1	1102.4	1111.9	1095.7
17.5°	1083.9	1093.3	1087.2	1095.7	1079.6
20°	1068.2	1075.8	1069.1	1076.3	1060.6
22.5°	1048.7	1055.9	1048.7	1053.5	1039.7
25°	1027.9	1033.1	1026.0	1030.7	1016.5
27.5°	1005.6	1008.4	1001.3	1005.1	990.4
30°	978.0	981.4	973.8	978.5	964.3
32.5°	951.5	953.4	944.8	948.6	935.8
35°	920.1	922.0	913.0	916.8	904.0
37.5°	890.2	889.8	880.3	882.6	871.7
40°	855.6	855.1	845.2	847.1	836.6
42.5°	820.0	818.1	808.6	809.6	800.1
45°	780.1	779.2	769.2	770.7	761.2
47.5°	741.7	738.9	728.9	729.4	721.3
50°	699.9	695.7	687.1	686.2	679.1
52.5°	655.3	650.6	641.1	640.2	634.9
55°	608.8	603.6	594.6	593.2	588.9
57.5°	560.9	554.3	547.1	544.3	541.0
60°	510.1	504.0	495.9	493.0	491.6
62.5°	457.5	451.3	445.1	442.3	440.4
65°	403.8	399.1	392.0	389.1	387.7
67.5°	349.3	345.0	338.3	335.0	334.6
70°	294.7	290.4	282.8	280.9	280.5
72.5°	240.1	236.3	229.2	227.3	227.3
75°	187.0	183.6	177.5	175.6	175.6
77.5°	136.7	133.8	129.1	126.7	126.7
80°	91.1	89.2	84.9	83.0	82.6
82.5°	52.7	51.7	47.9	46.0	47.0
85°	24.2	23.3	21.4	19.0	19.5
87.5°	6.2	5.7	4.3	3.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)