

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: P973490

Luminaire Tested: FLR2-14-42-L950-CP375

Issue Date: 3/13/2025

**Test Information**

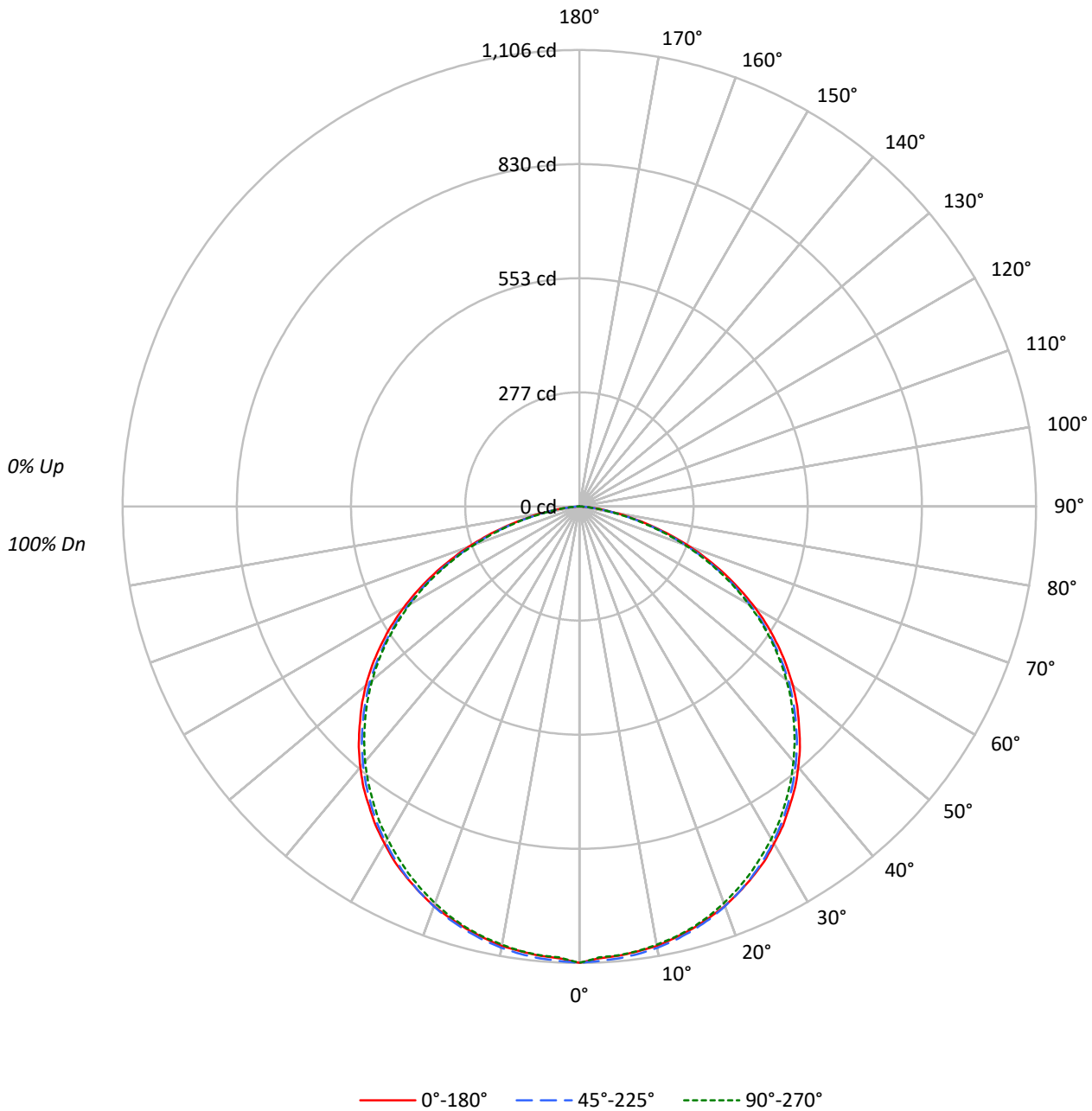
Test Method: LM-79-2019  
Report Number: P973490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42-L950-CP375  
Description: 1\*4 FLR-2.0 4200 LUMEN at 5000 CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)  
  
Light Source:  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3094.4 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

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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	0
RW	70	50	30	10	70	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°	2975	2975	2975
5°	2952	2969	2948
10°	2955	2967	2946
15°	2950	2962	2944
20°	2950	2952	2929
25°	2943	2938	2910
30°	2931	2918	2889
35°	2915	2893	2864
40°	2898	2863	2834
45°	2863	2823	2793
50°	2826	2774	2742
55°	2754	2690	2664
60°	2647	2574	2552
65°	2479	2407	2381
70°	2236	2146	2128
75°	1875	1779	1760
80°	1362	1269	1234
85°	719	636	580

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2863 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.7	3.4
10°-20°	300.7	9.7
20°-30°	456.9	14.8
30°-40°	552.7	17.9
40°-50°	574.4	18.6
50°-60°	514.3	16.6
60°-70°	375.1	12.1
70°-80°	184.7	6.0
80°-90°	30.9	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°	862.4	27.9
0°-40°	1415.0	45.7
0°-60°	2503.7	80.9
0°-90°	3094.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3094.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1093	1105	1099	1110	1091	104
15°	1059	1068	1063	1072	1057	299
25°	991	996	989	994	980	457
35°	887	889	880	884	872	556
45°	752	751	742	743	734	581
55°	587	582	573	572	568	524
65°	389	385	378	375	374	385
75°	180	177	171	169	169	192
85°	23	22	21	18	19	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1105.6	1105.6	1105.6	1105.6	1105.6
2.5°	1096.0	1108.4	1102.4	1113.4	1093.7
5°	1092.8	1104.7	1099.2	1109.7	1091.4
7.5°	1087.3	1099.7	1093.7	1103.8	1086.4
10°	1081.4	1092.3	1085.9	1096.0	1078.2
12.5°	1070.8	1081.8	1075.9	1085.0	1068.5
15°	1058.9	1068.5	1063.1	1072.2	1056.6
17.5°	1045.2	1054.4	1048.4	1056.6	1041.1
20°	1030.1	1037.4	1031.0	1037.9	1022.8
22.5°	1011.3	1018.2	1011.3	1015.9	1002.6
25°	991.2	996.2	989.4	994.0	980.2
27.5°	969.7	972.4	965.6	969.2	955.1
30°	943.2	946.4	939.0	943.6	929.9
32.5°	917.5	919.4	911.1	914.8	902.4
35°	887.3	889.2	880.5	884.1	871.8
37.5°	858.5	858.0	848.9	851.2	840.6
40°	825.1	824.6	815.0	816.9	806.8
42.5°	790.8	788.9	779.8	780.7	771.5
45°	752.3	751.4	741.8	743.2	734.0
47.5°	715.3	712.5	702.9	703.4	695.6
50°	675.0	670.9	662.6	661.7	654.9
52.5°	632.0	627.4	618.2	617.3	612.3
55°	587.1	582.1	573.4	572.0	567.9
57.5°	540.9	534.5	527.6	524.9	521.7
60°	491.9	486.0	478.2	475.5	474.1
62.5°	441.1	435.2	429.2	426.5	424.7
65°	389.4	384.9	378.0	375.2	373.9
67.5°	336.8	332.7	326.3	323.1	322.6
70°	284.2	280.1	272.7	270.9	270.5
72.5°	231.6	227.9	221.0	219.2	219.2
75°	180.3	177.1	171.1	169.3	169.3
77.5°	131.8	129.0	124.5	122.2	122.2
80°	87.9	86.0	81.9	80.1	79.6
82.5°	50.8	49.9	46.2	44.4	45.3
85°	23.3	22.4	20.6	18.3	18.8
87.5°	5.9	5.5	4.1	3.2	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)