

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: P973334

Luminaire Tested: FLR2-14-42-L830-CP125

Issue Date: 3/13/2025

**Test Information**

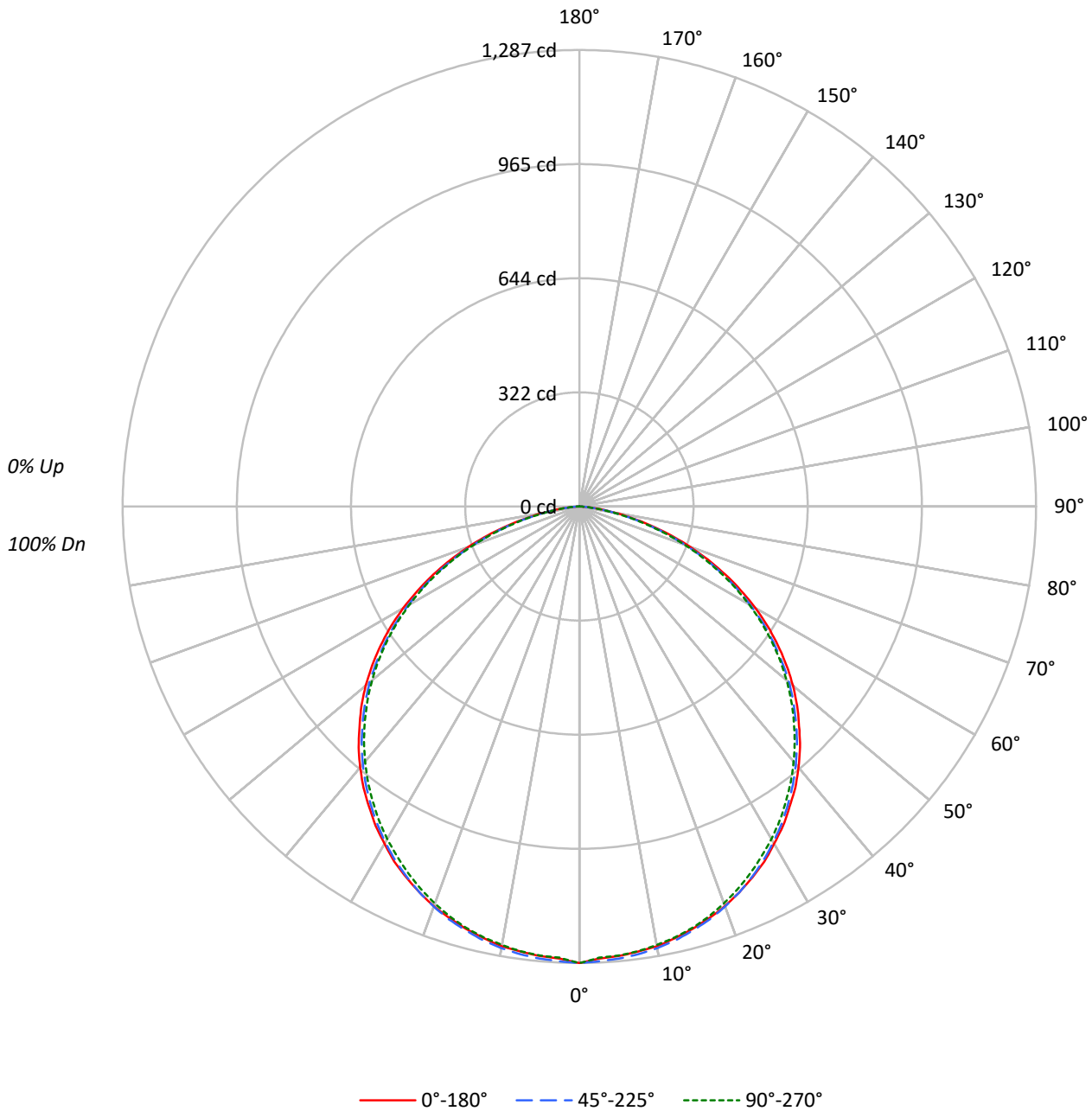
Test Method: LM-79-2019  
Report Number: P973334  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-14-42-L830-CP125  
Description: 1\*4 FLR-2.0 4200 LUMEN at 3000CCT & 80CRI with Clear Polycarbonate (0.125" thickness)  
  
Light Source: 3000k CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3602.9 lumens  
Efficiency: N/A  
Efficacy: 113.7 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

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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°	3464	3464	3464
5°	3437	3457	3433
10°	3440	3455	3430
15°	3435	3448	3428
20°	3435	3438	3410
25°	3427	3420	3389
30°	3412	3397	3364
35°	3394	3368	3334
40°	3375	3334	3300
45°	3334	3287	3252
50°	3290	3230	3192
55°	3207	3132	3102
60°	3083	2997	2971
65°	2887	2802	2772
70°	2603	2499	2478
75°	2182	2072	2049
80°	1585	1478	1437
85°	840	741	673

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3334 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.9	3.4
10°-20°	350.2	9.7
20°-30°	532.0	14.8
30°-40°	643.5	17.9
40°-50°	668.8	18.6
50°-60°	598.8	16.6
60°-70°	436.8	12.1
70°-80°	215.1	6.0
80°-90°	36.0	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°	1004.1	27.9
0°-40°	1647.6	45.7
0°-60°	2915.2	80.9
0°-90°	3602.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3602.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1272	1286	1280	1292	1271	121
15°	1233	1244	1238	1248	1230	348
25°	1154	1160	1152	1157	1141	532
35°	1033	1035	1025	1029	1015	647
45°	876	875	864	865	855	676
55°	684	678	668	666	661	610
65°	453	448	440	437	435	448
75°	210	206	199	197	197	224
85°	27	26	24	21	22	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1287.3	1287.3	1287.3	1287.3	1287.3
2.5°	1276.1	1290.5	1283.6	1296.4	1273.4
5°	1272.4	1286.2	1279.8	1292.1	1270.8
7.5°	1266.0	1280.4	1273.4	1285.2	1264.9
10°	1259.1	1271.8	1264.4	1276.1	1255.3
12.5°	1246.8	1259.6	1252.7	1263.3	1244.1
15°	1232.9	1244.1	1237.7	1248.4	1230.3
17.5°	1217.0	1227.6	1220.7	1230.3	1212.2
20°	1199.4	1207.9	1200.4	1208.4	1190.9
22.5°	1177.5	1185.5	1177.5	1182.9	1167.4
25°	1154.1	1159.9	1152.0	1157.3	1141.3
27.5°	1129.0	1132.2	1124.3	1128.5	1112.0
30°	1098.1	1101.9	1093.3	1098.7	1082.7
32.5°	1068.3	1070.4	1060.8	1065.1	1050.7
35°	1033.1	1035.3	1025.1	1029.4	1015.0
37.5°	999.6	999.0	988.4	991.0	978.8
40°	960.7	960.1	949.0	951.1	939.4
42.5°	920.7	918.6	907.9	909.0	898.3
45°	876.0	874.9	863.7	865.3	854.6
47.5°	832.8	829.6	818.4	818.9	809.9
50°	785.9	781.1	771.5	770.5	762.5
52.5°	735.8	730.5	719.8	718.8	712.9
55°	683.6	677.7	667.6	666.0	661.2
57.5°	629.8	622.3	614.3	611.1	607.4
60°	572.8	565.9	556.8	553.6	552.0
62.5°	513.6	506.7	499.8	496.6	494.5
65°	453.4	448.1	440.1	436.9	435.3
67.5°	392.2	387.4	379.9	376.2	375.6
70°	330.9	326.1	317.6	315.4	314.9
72.5°	269.6	265.3	257.4	255.2	255.2
75°	209.9	206.2	199.3	197.1	197.1
77.5°	153.5	150.3	144.9	142.3	142.3
80°	102.3	100.2	95.4	93.2	92.7
82.5°	59.1	58.1	53.8	51.7	52.7
85°	27.2	26.1	24.0	21.3	21.8
87.5°	6.9	6.4	4.8	3.7	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)