

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: P973343

Luminaire Tested: FLR2-14-42-L830-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973343  
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-CP375  
Description: 1\*4 FLR-2.0 4200 LUMEN at 3000CCT & 80CRI with Clear Polycarbonate (0.375" thickness)  
  
Light Source: 3000k CCT, 80 CRI LEDS  
Ballast/Driver: -

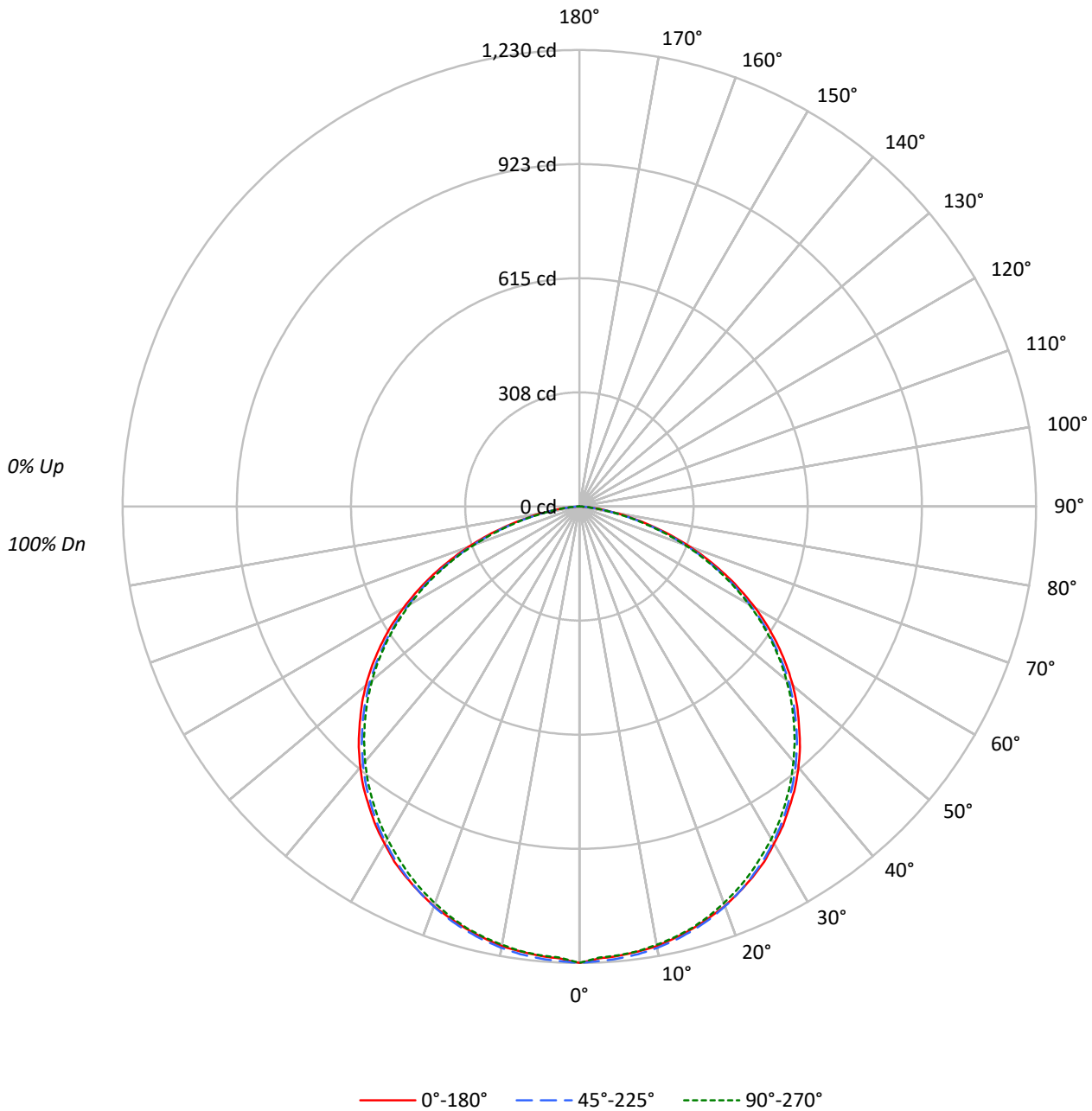
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3442.2 lumens  
Efficiency: N/A  
Efficacy: 108.6 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									
RC	80									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°	3309	3309	3309
5°	3284	3303	3280
10°	3287	3301	3277
15°	3282	3294	3275
20°	3281	3284	3258
25°	3274	3268	3238
30°	3260	3246	3214
35°	3242	3217	3186
40°	3224	3185	3152
45°	3185	3140	3107
50°	3143	3086	3049
55°	3064	2992	2964
60°	2945	2863	2838
65°	2758	2677	2648
70°	2487	2387	2367
75°	2086	1980	1958
80°	1514	1412	1373
85°	803	707	645

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3185 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.5	3.4
10°-20°	334.5	9.7
20°-30°	508.2	14.8
30°-40°	614.8	17.9
40°-50°	638.9	18.6
50°-60°	572.1	16.6
60°-70°	417.3	12.1
70°-80°	205.5	6.0
80°-90°	34.4	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°	959.3	27.9
0°-40°	1574.0	45.7
0°-60°	2785.1	80.9
0°-90°	3442.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1216	1229	1223	1234	1214	116
15°	1178	1189	1182	1193	1175	333
25°	1103	1108	1100	1106	1090	508
35°	987	989	979	984	970	618
45°	837	836	825	827	816	646
55°	653	648	638	636	632	583
65°	433	428	420	417	416	428
75°	201	197	190	188	188	214
85°	26	25	23	20	21	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1229.8	1229.8	1229.8	1229.8	1229.8
2.5°	1219.1	1232.9	1226.3	1238.5	1216.6
5°	1215.6	1228.8	1222.7	1234.4	1214.1
7.5°	1209.5	1223.2	1216.6	1227.8	1208.5
10°	1202.9	1215.1	1207.9	1219.1	1199.3
12.5°	1191.1	1203.4	1196.7	1206.9	1188.6
15°	1177.9	1188.6	1182.5	1192.7	1175.4
17.5°	1162.6	1172.8	1166.2	1175.4	1158.1
20°	1145.8	1154.0	1146.9	1154.5	1137.7
22.5°	1125.0	1132.6	1125.0	1130.1	1115.3
25°	1102.6	1108.2	1100.5	1105.6	1090.4
27.5°	1078.7	1081.7	1074.1	1078.1	1062.4
30°	1049.1	1052.7	1044.5	1049.6	1034.4
32.5°	1020.6	1022.7	1013.5	1017.6	1003.8
35°	987.0	989.1	979.4	983.5	969.7
37.5°	955.0	954.4	944.3	946.8	935.1
40°	917.8	917.3	906.6	908.6	897.4
42.5°	879.6	877.6	867.4	868.4	858.2
45°	836.9	835.8	825.2	826.7	816.5
47.5°	795.6	792.6	781.9	782.4	773.7
50°	750.8	746.2	737.1	736.1	728.4
52.5°	703.0	697.9	687.7	686.7	681.1
55°	653.1	647.5	637.8	636.3	631.7
57.5°	601.7	594.6	586.9	583.9	580.3
60°	547.2	540.6	531.9	528.9	527.4
62.5°	490.7	484.1	477.5	474.4	472.4
65°	433.2	428.1	420.5	417.4	415.9
67.5°	374.7	370.1	362.9	359.4	358.9
70°	316.1	311.5	303.4	301.4	300.8
72.5°	257.6	253.5	245.9	243.8	243.8
75°	200.6	197.0	190.4	188.3	188.3
77.5°	146.6	143.5	138.5	135.9	135.9
80°	97.7	95.7	91.1	89.1	88.6
82.5°	56.5	55.5	51.4	49.4	50.4
85°	26.0	24.9	22.9	20.4	20.9
87.5°	6.6	6.1	4.6	3.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)