

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P708855

Luminaire Tested: **22APR-26-62L830-UNV**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708855  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 09/12/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22APR-26-62L830-UNV  
Description: ArcMed Patient Recessed 2x2 Fixture Ambient and Exam Light  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

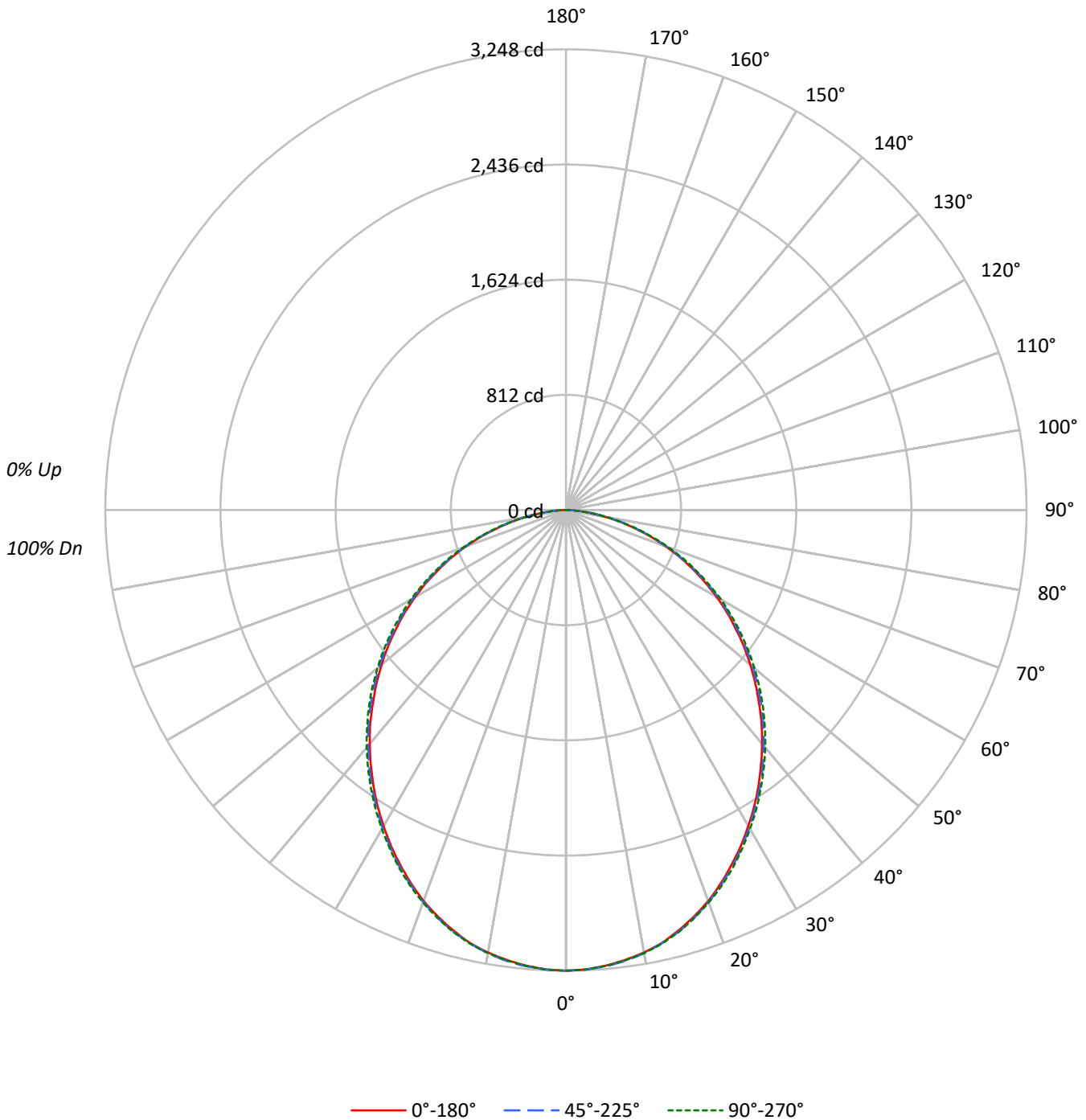
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8447.2 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 77  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 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				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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71				71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	61	53	47	59	52	47	57	51	46	44				44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39				39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28				28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25				25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8740	8740	8740
5°	8711	8722	8715
10°	8657	8669	8668
15°	8551	8573	8577
20°	8404	8421	8433
25°	8201	8239	8266
30°	7992	8036	8066
35°	7778	7831	7871
40°	7559	7619	7680
45°	7324	7414	7479
50°	7106	7191	7264
55°	6862	6954	7040
60°	6612	6699	6794
65°	6285	6388	6461
70°	5881	5962	6046
75°	5289	5388	5459
80°	4466	4581	4623
85°	3341	3489	3467



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.4	3.6
10°-20°	866.7	10.3
20°-30°	1277.4	15.1
30°-40°	1490.9	17.6
40°-50°	1502.5	17.8
50°-60°	1326.1	15.7
60°-70°	991.7	11.7
70°-80°	549.6	6.5
80°-90°	135.9	1.6
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°	2450.5	29.0
0°-40°	3941.4	46.7
0°-60°	6770.0	80.1
0°-90°	8447.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8447.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3248	3248	3248	3248	3248	
5°	3225	3229	3229	3230	3226	306
15°	3069	3075	3077	3080	3079	865
25°	2762	2768	2775	2780	2784	1272
35°	2368	2373	2384	2393	2396	1481
45°	1925	1937	1948	1962	1965	1487
55°	1463	1471	1482	1496	1500	1309
65°	987	992	1003	1011	1015	978
75°	509	511	518	524	525	540
85°	108	112	113	112	112	132
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3247.8	3247.8	3247.8	3247.8	3247.8
2.5°	3241.7	3245.1	3242.4	3245.1	3242.4
5°	3224.8	3228.9	3228.9	3229.6	3226.2
7.5°	3199.8	3204.5	3206.6	3207.2	3202.5
10°	3168.0	3172.7	3172.7	3175.4	3172.1
12.5°	3127.4	3130.1	3129.4	3133.5	3130.8
15°	3069.2	3074.6	3077.3	3080.1	3078.7
17.5°	3004.3	3011.1	3013.1	3017.8	3014.4
20°	2934.6	2939.3	2940.7	2948.1	2944.8
22.5°	2851.4	2856.1	2860.9	2867.6	2868.3
25°	2762.1	2768.2	2775.0	2780.4	2783.8
27.5°	2670.1	2676.2	2682.3	2689.0	2690.4
30°	2572.0	2579.5	2586.2	2594.3	2595.7
32.5°	2473.2	2476.0	2486.1	2494.9	2499.0
35°	2367.7	2373.1	2383.9	2393.4	2396.1
37.5°	2260.2	2268.3	2279.8	2289.9	2292.6
40°	2151.9	2158.7	2168.8	2182.4	2186.4
42.5°	2042.3	2047.1	2060.6	2072.1	2075.5
45°	1924.6	1936.8	1948.3	1961.8	1965.2
47.5°	1812.3	1821.8	1833.3	1846.1	1851.6
50°	1697.3	1708.8	1717.6	1731.8	1735.2
52.5°	1582.3	1589.7	1601.9	1614.1	1619.5
55°	1462.6	1471.4	1482.2	1495.7	1500.5
57.5°	1347.6	1352.3	1364.5	1376.0	1380.0
60°	1228.5	1233.2	1244.7	1256.9	1262.3
62.5°	1109.4	1113.5	1123.0	1137.2	1137.2
65°	987.0	991.7	1003.2	1011.4	1014.7
67.5°	867.9	872.0	880.1	890.3	895.0
70°	747.5	750.9	757.7	767.8	768.5
72.5°	627.1	630.5	639.3	642.7	647.4
75°	508.7	511.4	518.2	523.6	525.0
77.5°	395.7	399.8	404.5	406.6	408.6
80°	288.2	292.2	295.6	297.7	298.3
82.5°	190.8	194.8	196.9	198.2	197.5
85°	108.2	111.6	113.0	111.6	112.3
87.5°	42.6	44.6	46.0	45.3	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)