

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: P708815

Luminaire Tested: **24APR-X-62L830-UNV**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708815  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 09/12/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24APR-X-62L830-UNV  
Description: ArcMed Patient Recessed 2x2 Fixture EXAM Light  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

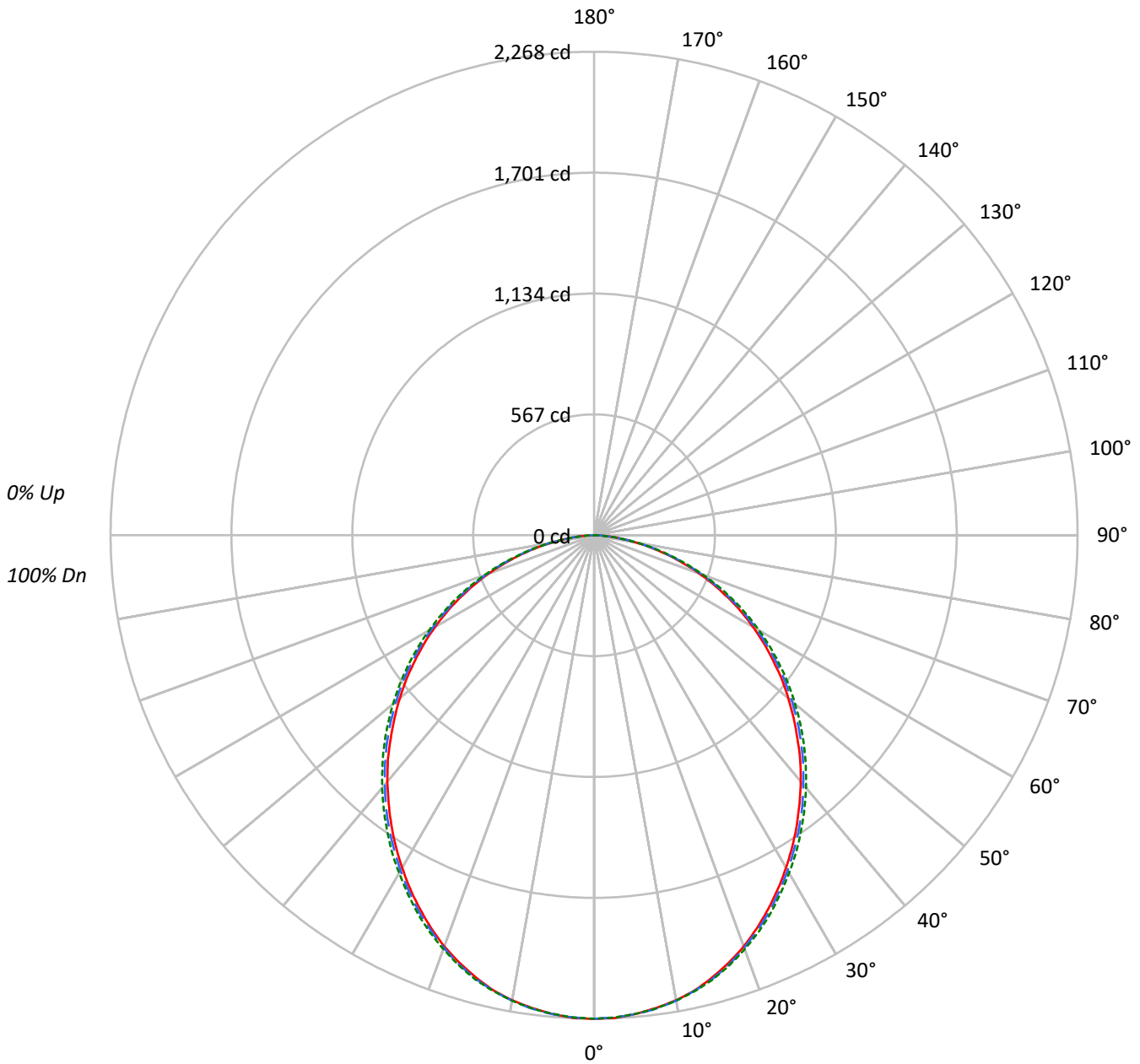
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5944.7 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 51.3  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	86	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	73	73	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	62	62	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	46	46	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	27	27	27	25

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

	0°	45°	90°
0°	6104	6104	6104
5°	6089	6091	6087
10°	6052	6058	6060
15°	5980	5997	6008
20°	5880	5899	5918
25°	5741	5779	5813
30°	5596	5642	5684
35°	5447	5507	5560
40°	5299	5361	5433
45°	5133	5226	5298
50°	4979	5072	5152
55°	4808	4910	4996
60°	4635	4730	4821
65°	4411	4510	4596
70°	4131	4221	4306
75°	3727	3819	3890
80°	3144	3261	3292
85°	2340	2485	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.0	3.6
10°-20°	606.4	10.2
20°-30°	895.8	15.1
30°-40°	1048.2	17.6
40°-50°	1058.6	17.8
50°-60°	935.7	15.7
60°-70°	700.4	11.8
70°-80°	389.3	6.5
80°-90°	96.2	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°	1716.3	28.9
0°-40°	2764.5	46.5
0°-60°	4758.8	80.1
0°-90°	5944.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5944.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2268	2268	2268	2268	2268	
5°	2254	2255	2255	2255	2253	214
15°	2146	2148	2153	2157	2157	605
25°	1933	1936	1946	1952	1958	891
35°	1658	1663	1676	1688	1693	1037
45°	1349	1359	1373	1388	1392	1042
55°	1025	1033	1046	1059	1065	918
65°	693	698	708	718	722	686
75°	358	361	367	374	374	380
85°	76	78	80	79	79	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2268.3	2268.3	2268.3	2268.3	2268.3
2.5°	2266.3	2266.3	2264.2	2264.9	2263.6
5°	2254.1	2254.8	2254.8	2255.4	2253.4
7.5°	2236.5	2237.9	2239.9	2240.6	2238.5
10°	2214.9	2216.2	2216.9	2219.6	2217.6
12.5°	2186.4	2187.1	2187.8	2191.9	2189.8
15°	2146.5	2147.9	2152.6	2156.7	2156.7
17.5°	2101.9	2104.6	2110.0	2115.4	2114.1
20°	2053.2	2055.2	2059.9	2067.4	2066.7
22.5°	1995.7	1997.7	2004.5	2012.6	2014.6
25°	1933.4	1936.1	1946.3	1952.4	1957.8
27.5°	1869.2	1872.6	1882.0	1891.5	1894.2
30°	1800.8	1806.3	1815.7	1825.9	1829.3
32.5°	1731.2	1733.9	1746.7	1757.5	1764.3
35°	1658.1	1662.8	1676.4	1687.9	1692.6
37.5°	1583.0	1589.8	1604.0	1616.2	1620.2
40°	1508.6	1514.0	1526.2	1541.7	1546.5
42.5°	1431.5	1436.2	1451.1	1464.6	1469.4
45°	1348.9	1359.1	1373.3	1387.5	1392.2
47.5°	1269.1	1278.6	1292.8	1307.0	1312.4
50°	1189.3	1199.4	1211.6	1226.5	1230.6
52.5°	1109.5	1117.6	1130.4	1143.3	1149.4
55°	1024.9	1033.0	1046.5	1059.4	1064.8
57.5°	945.1	950.5	963.3	975.5	980.2
60°	861.2	866.6	878.8	891.6	895.7
62.5°	778.7	782.0	793.5	805.7	808.4
65°	692.7	697.5	708.3	717.8	721.8
67.5°	608.8	612.9	622.4	632.5	634.6
70°	525.0	527.7	536.5	543.9	547.3
72.5°	440.4	443.1	452.6	456.6	460.0
75°	358.5	360.6	367.3	374.1	374.1
77.5°	278.7	282.1	287.5	290.2	291.6
80°	202.9	206.3	210.4	213.1	212.4
82.5°	133.9	137.3	140.0	141.4	140.0
85°	75.8	78.5	80.5	79.2	79.2
87.5°	29.8	31.1	32.5	31.8	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)