

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: P708986

Luminaire Tested: **24APR-67L930-X-UNV**

Issue Date: 09/12/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P708986  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 09/12/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24APR-67L930-X-UNV  
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

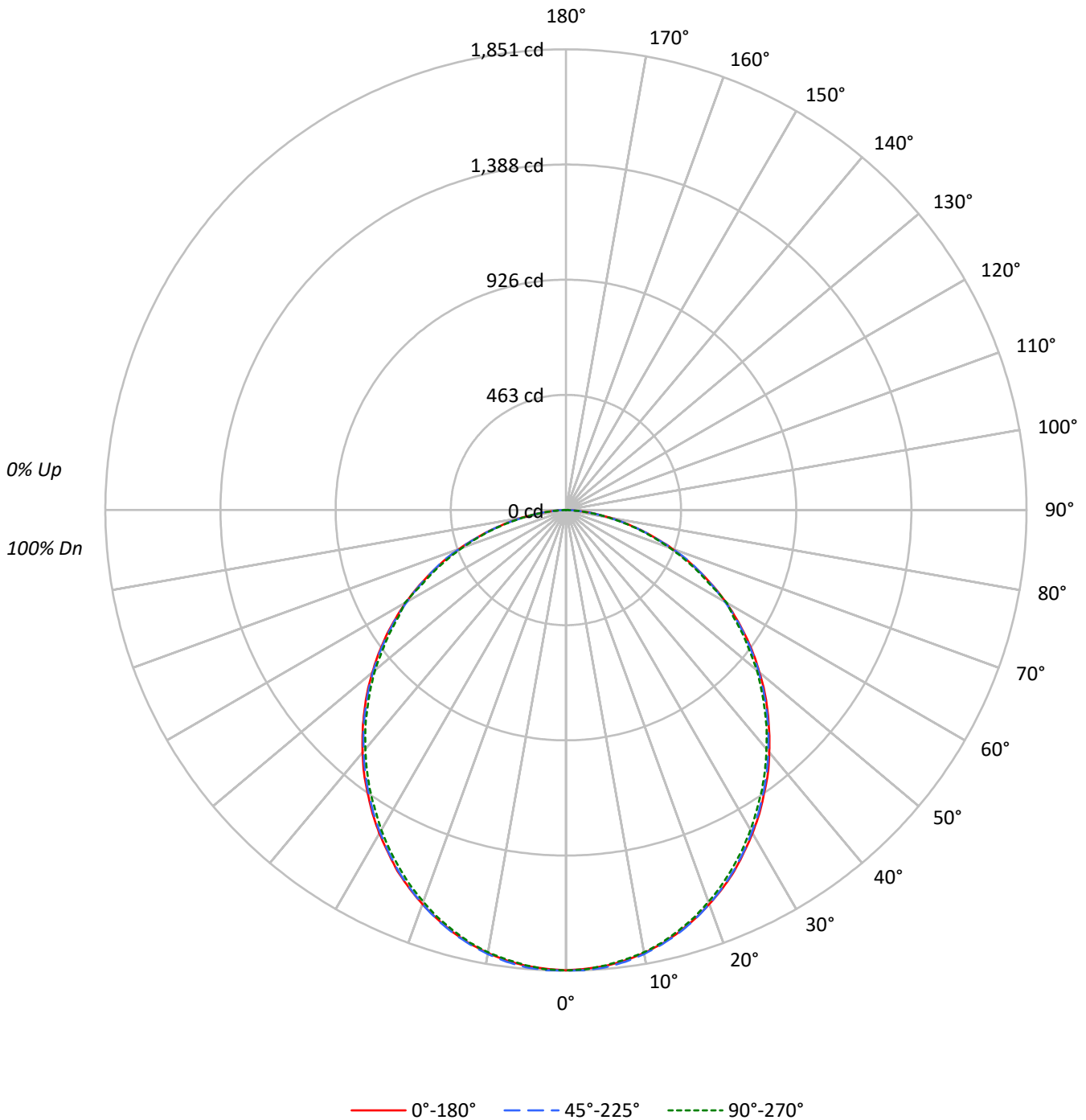
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4926.6 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 60.3  
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





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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	100	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	84	84	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70	70	70	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59	59	59	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51	51	51	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	39	39	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	34	34	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	30	30	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27	27	27	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	25	25	25

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

	0°	45°	90°
0°	2489	2489	2489
5°	2483	2490	2480
10°	2469	2475	2466
15°	2446	2450	2437
20°	2413	2412	2399
25°	2377	2371	2353
30°	2330	2322	2305
35°	2281	2273	2255
40°	2233	2222	2202
45°	2182	2171	2148
50°	2126	2117	2096
55°	2068	2057	2030
60°	1998	1986	2013
65°	1907	1902	1866
70°	1790	1792	1743
75°	1625	1612	1576
80°	1396	1378	1341
85°	1067	1057	976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.7	3.5
10°-20°	494.9	10.0
20°-30°	734.6	14.9
30°-40°	864.7	17.6
40°-50°	878.7	17.8
50°-60°	781.1	15.9
60°-70°	589.2	12.0
70°-80°	327.3	6.6
80°-90°	81.4	1.7
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°	1404.2	28.5
0°-40°	2268.8	46.1
0°-60°	3928.7	79.7
0°-90°	4926.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4926.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1838	1841	1844	1841	1836	174
15°	1756	1758	1759	1754	1749	495
25°	1601	1600	1597	1590	1585	737
35°	1389	1390	1384	1376	1373	869
45°	1147	1147	1141	1131	1129	884
55°	881	875	877	867	866	787
65°	599	596	597	590	586	593
75°	312	308	310	308	303	331
85°	69	67	68	66	63	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1849.6	1849.6	1849.6	1849.6	1849.6
2.5°	1844.9	1848.5	1850.8	1847.9	1847.3
5°	1838.4	1841.4	1843.7	1840.8	1836.1
7.5°	1825.4	1829.0	1830.7	1827.8	1821.3
10°	1807.1	1810.7	1811.2	1808.3	1804.8
12.5°	1784.7	1787.0	1787.0	1784.7	1780.5
15°	1755.7	1757.5	1758.7	1754.5	1749.2
17.5°	1722.6	1725.6	1724.4	1717.9	1715.5
20°	1685.4	1687.8	1684.8	1680.7	1675.4
22.5°	1644.7	1645.2	1642.9	1638.2	1632.8
25°	1600.9	1599.8	1597.4	1590.3	1585.0
27.5°	1550.1	1552.5	1546.6	1540.1	1536.5
30°	1499.9	1500.5	1494.6	1486.3	1483.4
32.5°	1446.2	1445.0	1440.8	1432.0	1427.3
35°	1388.9	1389.5	1384.1	1375.9	1372.9
37.5°	1333.3	1329.8	1325.7	1316.2	1314.4
40°	1271.3	1270.7	1264.8	1256.5	1253.6
42.5°	1209.3	1208.7	1204.0	1195.7	1193.3
45°	1146.7	1146.7	1140.7	1131.3	1128.9
47.5°	1082.9	1080.5	1076.4	1068.1	1065.1
50°	1015.5	1013.7	1011.4	1001.9	1001.3
52.5°	949.3	948.2	944.0	935.8	931.0
55°	881.4	874.9	876.7	867.2	865.5
57.5°	811.7	805.2	808.7	800.5	796.9
60°	742.6	736.1	737.9	732.5	747.9
62.5°	671.7	667.6	667.6	680.0	657.5
65°	599.0	595.5	597.3	589.6	586.0
67.5°	527.5	522.2	533.5	519.3	513.4
70°	454.9	451.3	455.5	447.2	443.1
72.5°	382.8	379.9	378.7	375.7	372.2
75°	312.5	308.4	310.1	307.8	303.1
77.5°	244.0	242.8	242.2	239.3	235.7
80°	180.2	179.0	177.8	175.5	173.1
82.5°	120.5	119.3	118.7	117.6	117.0
85°	69.1	67.3	68.5	65.6	63.2
87.5°	26.0	25.4	26.6	24.2	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)