

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: P708966

Luminaire Tested: **24APR-67L830-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708966
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-67L830-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

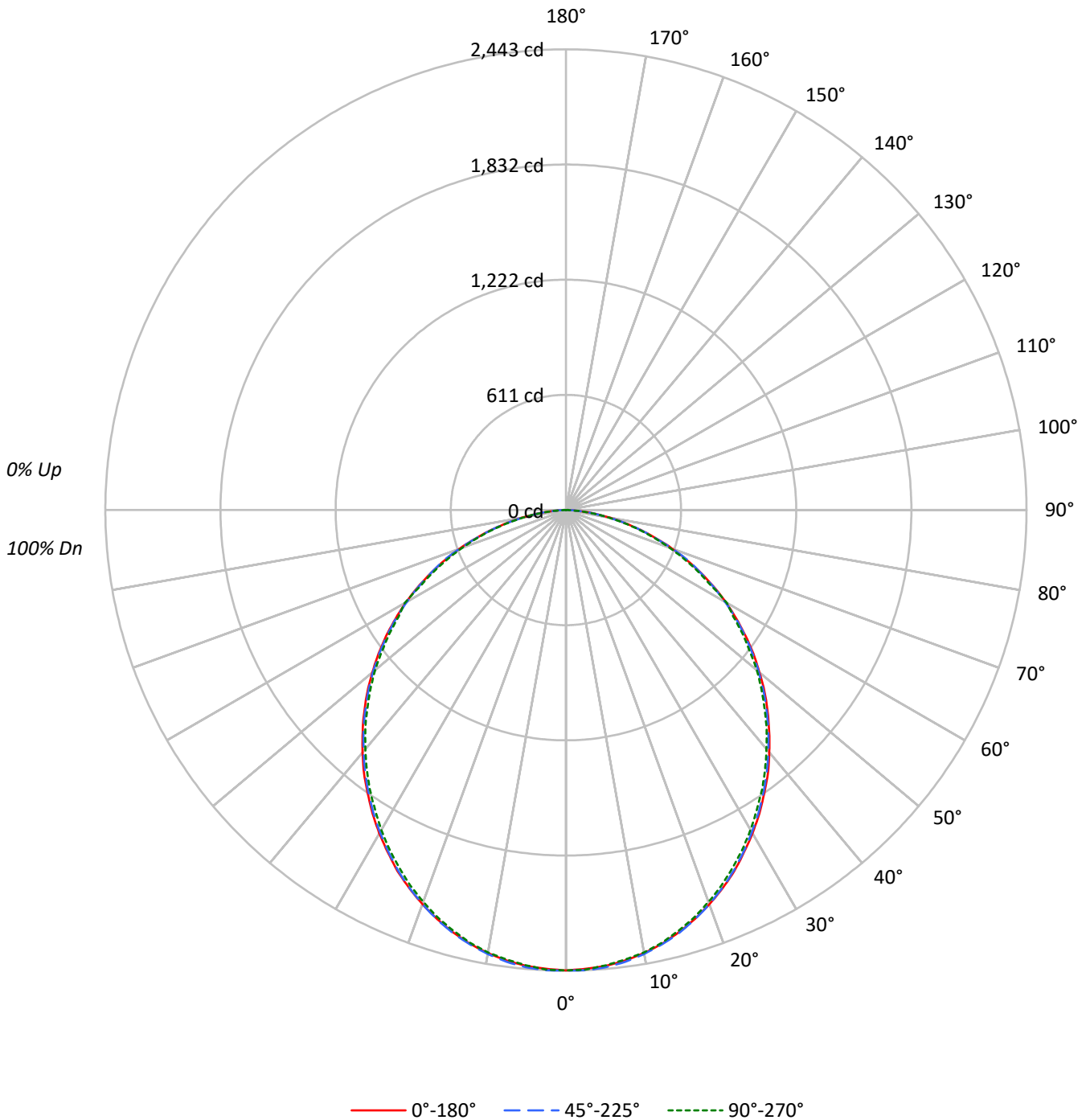
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6502.8 lumens
Efficiency: N/A
Efficacy: 107.8 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				
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	72	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	61	61	61	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	53	53	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	36	36	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	32	32	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3285	3285	3285
5°	3277	3287	3273
10°	3259	3266	3255
15°	3228	3233	3216
20°	3185	3184	3166
25°	3137	3130	3106
30°	3076	3065	3042
35°	3011	3001	2976
40°	2947	2932	2906
45°	2880	2865	2835
50°	2806	2794	2767
55°	2729	2715	2680
60°	2637	2621	2657
65°	2517	2510	2463
70°	2362	2365	2301
75°	2144	2128	2079
80°	1843	1819	1771
85°	1408	1397	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.6	3.5
10°-20°	653.2	10.0
20°-30°	969.6	14.9
30°-40°	1141.3	17.6
40°-50°	1159.8	17.8
50°-60°	1031.1	15.9
60°-70°	777.7	12.0
70°-80°	432.0	6.6
80°-90°	107.4	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°	1853.4	28.5
0°-40°	2994.7	46.1
0°-60°	5185.6	79.7
0°-90°	6502.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6502.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2441	2441	2441	2441	2441	
5°	2427	2430	2434	2430	2424	230
15°	2317	2320	2321	2316	2309	653
25°	2113	2112	2108	2099	2092	972
35°	1833	1834	1827	1816	1812	1148
45°	1514	1514	1506	1493	1490	1167
55°	1163	1155	1157	1145	1142	1039
65°	791	786	788	778	774	783
75°	412	407	409	406	400	437
85°	91	89	90	87	83	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2441.4	2441.4	2441.4	2441.4	2441.4
2.5°	2435.2	2439.8	2443.0	2439.1	2438.3
5°	2426.6	2430.5	2433.6	2429.7	2423.5
7.5°	2409.4	2414.1	2416.5	2412.6	2404.0
10°	2385.3	2389.9	2390.7	2386.8	2382.1
12.5°	2355.6	2358.8	2358.8	2355.6	2350.2
15°	2317.4	2319.8	2321.3	2315.9	2308.8
17.5°	2273.8	2277.7	2276.1	2267.5	2264.4
20°	2224.6	2227.8	2223.9	2218.4	2211.4
22.5°	2170.8	2171.6	2168.5	2162.3	2155.2
25°	2113.1	2111.6	2108.5	2099.1	2092.1
27.5°	2046.1	2049.2	2041.4	2032.8	2028.1
30°	1979.8	1980.6	1972.8	1961.9	1958.0
32.5°	1908.8	1907.3	1901.8	1890.1	1883.9
35°	1833.2	1834.0	1827.0	1816.0	1812.1
37.5°	1759.9	1755.2	1749.8	1737.3	1734.9
40°	1678.0	1677.2	1669.4	1658.5	1654.6
42.5°	1596.2	1595.4	1589.1	1578.2	1575.1
45°	1513.5	1513.5	1505.7	1493.2	1490.1
47.5°	1429.3	1426.2	1420.7	1409.8	1405.9
50°	1340.4	1338.1	1334.9	1322.5	1321.7
52.5°	1253.1	1251.5	1246.0	1235.1	1228.9
55°	1163.4	1154.8	1157.2	1144.7	1142.3
57.5°	1071.4	1062.8	1067.5	1056.6	1051.9
60°	980.1	971.6	973.9	966.9	987.2
62.5°	886.6	881.1	881.1	897.5	867.9
65°	790.7	786.0	788.3	778.2	773.5
67.5°	696.3	689.3	704.1	685.4	677.6
70°	600.4	595.7	601.2	590.3	584.8
72.5°	505.3	501.4	499.8	495.9	491.2
75°	412.5	407.0	409.4	406.3	400.0
77.5°	322.0	320.5	319.7	315.8	311.1
80°	237.8	236.3	234.7	231.6	228.5
82.5°	159.1	157.5	156.7	155.2	154.4
85°	91.2	88.9	90.5	86.6	83.4
87.5°	34.3	33.5	35.1	32.0	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)