

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: P708991

Luminaire Tested: **24APR-67L935-X-UNV**

Issue Date: 09/12/2023



Test Information

Test Method: LM-79-08
Report Number: P708991
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/12/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 24APR-67L935-X-UNV
Description: ArcMed Patient Recessed 2x4 Fixture Ambient Light
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

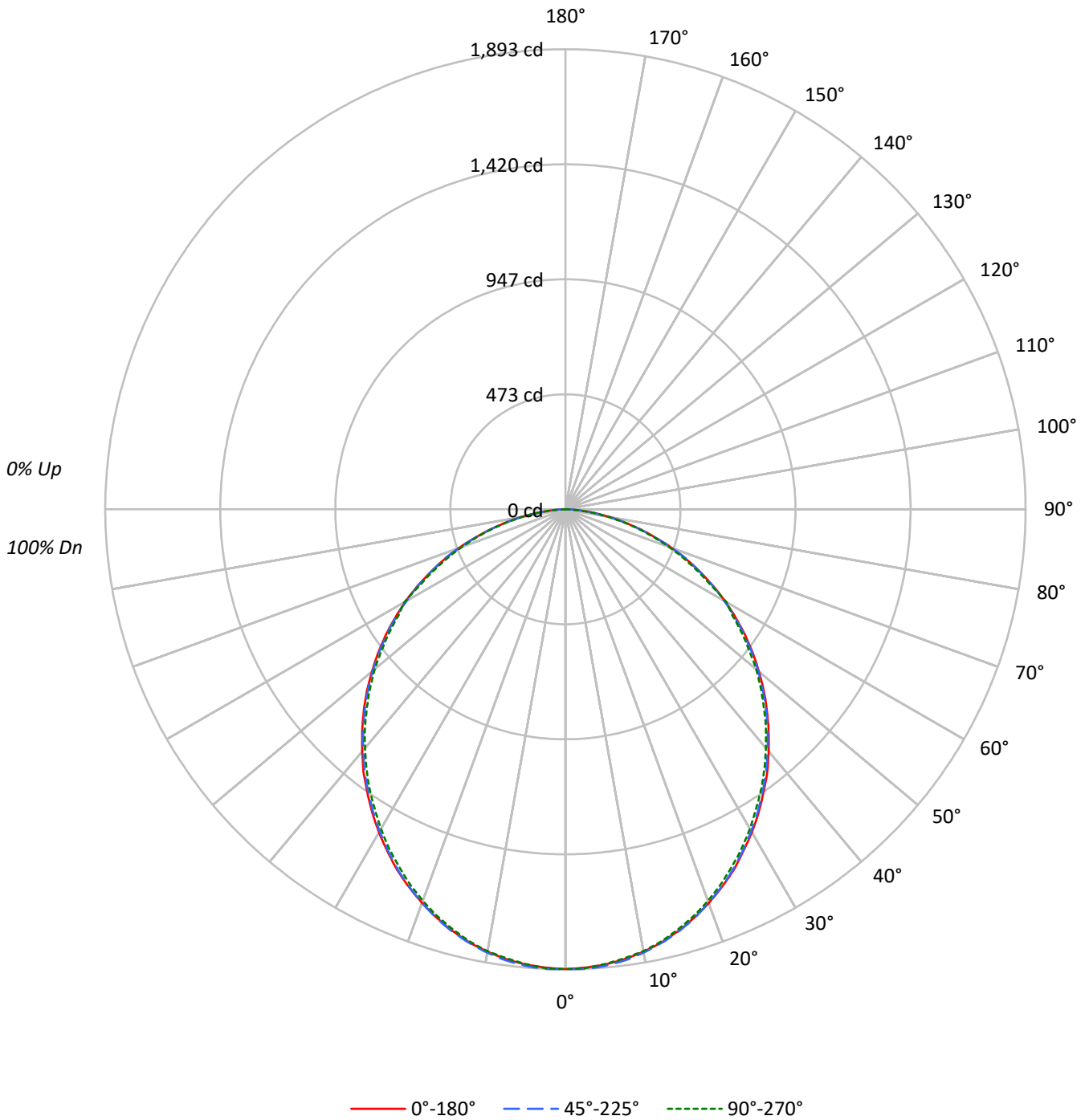
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5039.8 lumens
Efficiency: N/A
Efficacy: 83.6 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	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°	2546	2546	2546
5°	2540	2547	2537
10°	2526	2532	2522
15°	2502	2506	2493
20°	2469	2468	2454
25°	2431	2426	2407
30°	2384	2376	2358
35°	2334	2326	2307
40°	2284	2273	2252
45°	2232	2221	2198
50°	2174	2166	2144
55°	2115	2104	2077
60°	2044	2031	2059
65°	1951	1945	1909
70°	1830	1833	1783
75°	1662	1650	1612
80°	1428	1409	1372
85°	1091	1082	999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	3.5
10°-20°	506.3	10.0
20°-30°	751.5	14.9
30°-40°	884.5	17.6
40°-50°	898.9	17.8
50°-60°	799.1	15.9
60°-70°	602.8	12.0
70°-80°	334.8	6.6
80°-90°	83.3	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°	1436.4	28.5
0°-40°	2321.0	46.1
0°-60°	4019.0	79.7
0°-90°	5039.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5039.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1892	1892	1892	1892	1892	
5°	1881	1884	1886	1883	1878	178
15°	1796	1798	1799	1795	1789	506
25°	1638	1636	1634	1627	1621	754
35°	1421	1421	1416	1408	1404	889
45°	1173	1173	1167	1157	1155	905
55°	902	895	897	887	885	806
65°	613	609	611	603	600	607
75°	320	316	317	315	310	339
85°	71	69	70	67	65	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1892.2	1892.2	1892.2	1892.2	1892.2
2.5°	1887.3	1890.9	1893.4	1890.3	1889.7
5°	1880.7	1883.7	1886.1	1883.1	1878.3
7.5°	1867.4	1871.0	1872.8	1869.8	1863.1
10°	1848.6	1852.3	1852.9	1849.8	1846.2
12.5°	1825.7	1828.1	1828.1	1825.7	1821.4
15°	1796.1	1797.9	1799.1	1794.9	1789.4
17.5°	1762.2	1765.2	1764.0	1757.4	1755.0
20°	1724.1	1726.6	1723.5	1719.3	1713.9
22.5°	1682.5	1683.1	1680.6	1675.8	1670.4
25°	1637.7	1636.5	1634.1	1626.9	1621.4
27.5°	1585.8	1588.2	1582.1	1575.5	1571.9
30°	1534.4	1535.0	1529.0	1520.5	1517.5
32.5°	1479.4	1478.2	1474.0	1464.9	1460.1
35°	1420.8	1421.4	1415.9	1407.5	1404.5
37.5°	1364.0	1360.3	1356.1	1346.4	1344.6
40°	1300.5	1299.9	1293.9	1285.4	1282.4
42.5°	1237.1	1236.5	1231.6	1223.2	1220.7
45°	1173.0	1173.0	1167.0	1157.3	1154.9
47.5°	1107.7	1105.3	1101.1	1092.6	1089.6
50°	1038.8	1037.0	1034.6	1024.9	1024.3
52.5°	971.2	969.9	965.7	957.3	952.4
55°	901.7	895.0	896.8	887.2	885.3
57.5°	830.3	823.7	827.3	818.9	815.2
60°	759.6	753.0	754.8	749.4	765.1
62.5°	687.1	682.9	682.9	695.6	672.6
65°	612.8	609.2	611.0	603.1	599.5
67.5°	539.7	534.2	545.7	531.2	525.2
70°	465.3	461.7	465.9	457.5	453.2
72.5°	391.6	388.6	387.4	384.4	380.7
75°	319.7	315.5	317.3	314.9	310.0
77.5°	249.6	248.4	247.8	244.8	241.1
80°	184.3	183.1	181.9	179.5	177.1
82.5°	123.3	122.1	121.5	120.3	119.7
85°	70.7	68.9	70.1	67.1	64.7
87.5°	26.6	26.0	27.2	24.8	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)