

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: METALUX

Report Number: P709907

Luminaire Tested: **8AWWS-L3C39-UNV-4000K-LOW**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-090-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/26/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8AWWS-L3C39-UNV-4000K-LOW  
Description: 8foot, Wide Adapt Surface Wrap with, RD lens and LOW lumen setting,  
4000K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

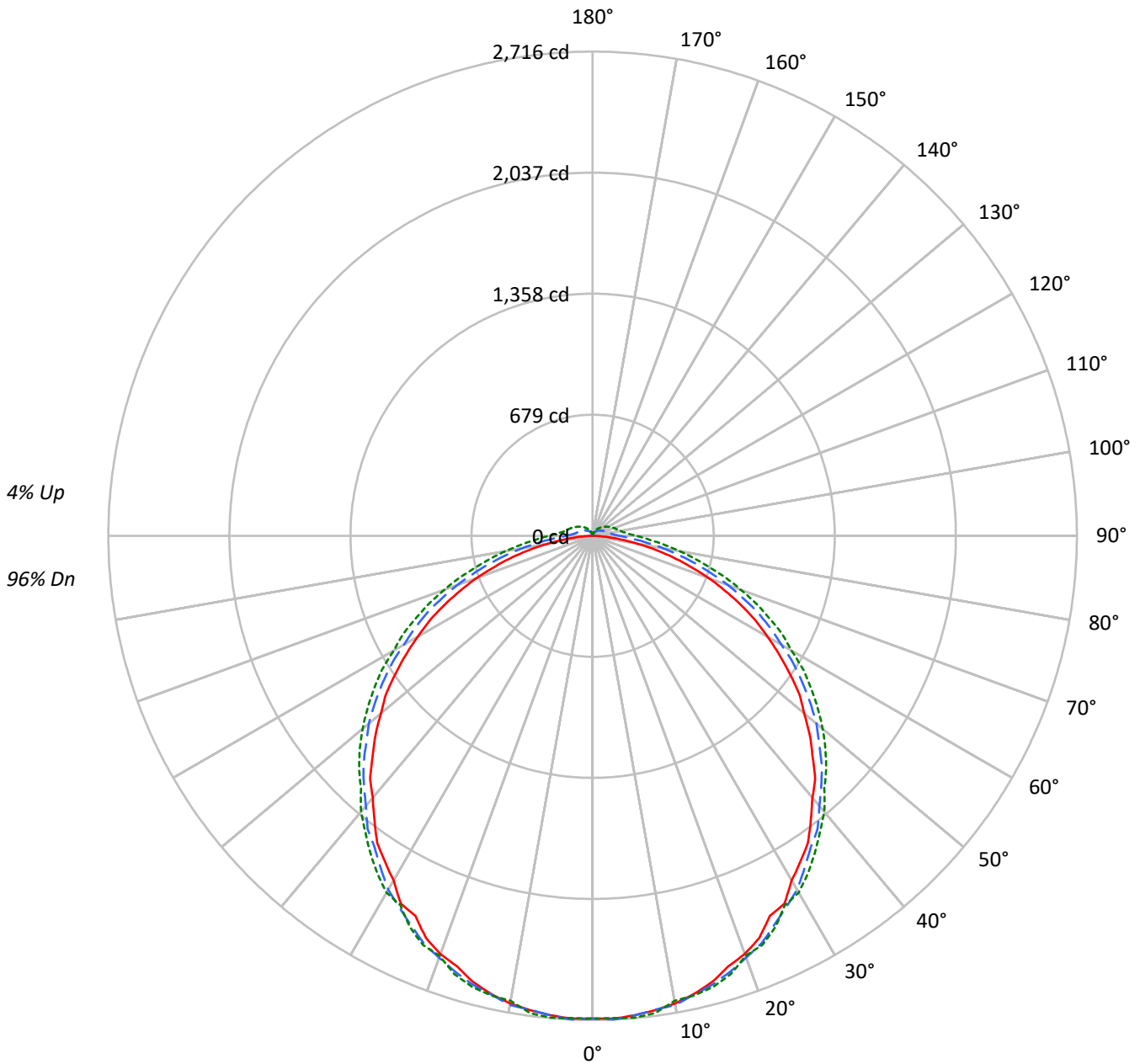
Lumens per Lamp: N/A  
Luminaire Lumens: 8353.0 lumens  
Efficiency: N/A  
Efficacy: 154.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 7.42' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 98 | 98 | 98 | 96 |
| 1   | 107 | 102 | 97  | 93  | 104 | 99  | 95  | 91  | 94  | 91  | 88  | 90  | 87  | 84  | 85 | 83 | 81 | 81 | 81 | 81 | 79 |
| 2   | 97  | 89  | 81  | 76  | 94  | 86  | 80  | 74  | 82  | 77  | 72  | 78  | 74  | 70  | 74 | 71 | 67 | 67 | 67 | 67 | 65 |
| 3   | 88  | 78  | 69  | 62  | 85  | 76  | 68  | 62  | 72  | 65  | 60  | 69  | 63  | 58  | 66 | 61 | 57 | 57 | 57 | 57 | 54 |
| 4   | 81  | 69  | 60  | 53  | 78  | 67  | 59  | 52  | 64  | 57  | 51  | 61  | 55  | 50  | 58 | 53 | 49 | 49 | 49 | 49 | 46 |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 57  | 50  | 44  | 55  | 48  | 43  | 52 | 47 | 42 | 42 | 42 | 42 | 40 |
| 6   | 68  | 55  | 46  | 39  | 66  | 54  | 45  | 39  | 52  | 44  | 38  | 49  | 43  | 38  | 47 | 42 | 37 | 37 | 37 | 37 | 35 |
| 7   | 63  | 50  | 41  | 35  | 61  | 49  | 40  | 34  | 47  | 39  | 34  | 45  | 38  | 33  | 43 | 37 | 33 | 33 | 33 | 33 | 31 |
| 8   | 59  | 45  | 37  | 31  | 57  | 45  | 36  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40 | 34 | 29 | 29 | 29 | 29 | 27 |
| 9   | 55  | 42  | 33  | 28  | 53  | 41  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37 | 31 | 26 | 26 | 26 | 26 | 25 |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 34 | 28 | 24 | 24 | 24 | 24 | 22 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4733 | 4733 | 4733 |
| 5°  | 4728 | 4671 | 4677 |
| 10° | 4710 | 4613 | 4536 |
| 15° | 4660 | 4518 | 4492 |
| 20° | 4605 | 4424 | 4340 |
| 25° | 4488 | 4322 | 4265 |
| 30° | 4447 | 4233 | 4172 |
| 35° | 4421 | 4089 | 4055 |
| 40° | 4293 | 3975 | 3935 |
| 45° | 4214 | 3869 | 3800 |
| 50° | 4098 | 3737 | 3681 |
| 55° | 3983 | 3560 | 3529 |
| 60° | 3808 | 3341 | 3322 |
| 65° | 3619 | 3148 | 3138 |
| 70° | 3330 | 2858 | 2887 |
| 75° | 2890 | 2498 | 2578 |
| 80° | 2250 | 2101 | 2302 |
| 85° | 1295 | 1707 | 2055 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 257.1  | 3.1       |
| 10°-20°   | 734.6  | 8.8       |
| 20°-30°   | 1108.5 | 13.3      |
| 30°-40°   | 1337.8 | 16.0      |
| 40°-50°   | 1394.1 | 16.7      |
| 50°-60°   | 1277.8 | 15.3      |
| 60°-70°   | 1002.1 | 12.0      |
| 70°-80°   | 619.5  | 7.4       |
| 80°-90°   | 262.7  | 3.1       |
| 90°-100°  | 115.0  | 1.4       |
| 100°-110° | 81.7   | 1.0       |
| 110°-120° | 61.3   | 0.7       |
| 120°-130° | 43.7   | 0.5       |
| 130°-140° | 28.8   | 0.3       |
| 140°-150° | 17.1   | 0.2       |
| 150°-160° | 8.1    | 0.1       |
| 160°-170° | 2.7    | 0.0       |
| 170°-180° | 0.4    | 0.0       |
| 0°-30°    | 2100.2 | 25.1      |
| 0°-40°    | 3438.0 | 41.2      |
| 0°-60°    | 6110.0 | 73.1      |
| 0°-90°    | 7994.3 | 95.7      |
| 90°-120°  | 258.0  | 3.1       |
| 90°-150°  | 347.5  | 4.2       |
| 90°-180°  | 359.0  | 4.3       |
| 0°-180°   | 8353.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2708 | 2708  | 2708 | 2708  | 2708 |      |
| 5°   | 2700 | 2705  | 2700 | 2700  | 2714 | 257  |
| 15°  | 2591 | 2597  | 2605 | 2613  | 2618 | 730  |
| 25°  | 2352 | 2393  | 2409 | 2412  | 2423 | 1094 |
| 35°  | 2105 | 2113  | 2132 | 2168  | 2173 | 1309 |
| 45°  | 1744 | 1766  | 1817 | 1844  | 1852 | 1347 |
| 55°  | 1350 | 1385  | 1437 | 1467  | 1497 | 1206 |
| 65°  | 918  | 953   | 1024 | 1065  | 1092 | 906  |
| 75°  | 464  | 513   | 592  | 657   | 674  | 493  |
| 85°  | 82   | 147   | 242  | 312   | 342  | 104  |
| 90°  | 5    | 62    | 149  | 215   | 242  | 5    |
| 95°  | 0    | 41    | 109  | 163   | 187  | 0    |
| 105° | 0    | 30    | 82   | 125   | 141  | 0    |
| 115° | 0    | 24    | 65   | 100   | 114  | 0    |
| 125° | 0    | 22    | 52   | 76    | 90   | 0    |
| 135° | 0    | 16    | 41   | 57    | 68   | 0    |
| 145° | 3    | 14    | 30   | 41    | 46   | 1    |
| 155° | 3    | 8     | 19   | 27    | 30   | 1    |
| 165° | 3    | 5     | 8    | 14    | 14   | 1    |
| 175° | 3    | 3     | 3    | 3     | 5    | 0    |
| 180° | 3    | 3     | 3    | 3     | 3    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2708.2 | 2708.2 | 2708.2 | 2708.2 | 2708.2 |
| 2.5°   | 2710.9 | 2721.7 | 2716.3 | 2710.9 | 2708.2 |
| 5°     | 2700.0 | 2705.4 | 2700.0 | 2700.0 | 2713.6 |
| 7.5°   | 2683.7 | 2691.9 | 2681.0 | 2697.3 | 2700.0 |
| 10°    | 2664.7 | 2675.6 | 2672.8 | 2678.3 | 2648.4 |
| 12.5°  | 2632.1 | 2645.7 | 2634.8 | 2648.4 | 2640.3 |
| 15°    | 2591.4 | 2596.8 | 2604.9 | 2613.1 | 2618.5 |
| 17.5°  | 2531.6 | 2556.0 | 2564.2 | 2572.3 | 2577.8 |
| 20°    | 2496.3 | 2509.9 | 2518.0 | 2515.3 | 2507.2 |
| 22.5°  | 2442.0 | 2450.1 | 2474.6 | 2469.1 | 2485.4 |
| 25°    | 2352.3 | 2393.1 | 2409.4 | 2412.1 | 2422.9 |
| 27.5°  | 2327.9 | 2330.6 | 2349.6 | 2365.9 | 2336.0 |
| 30°    | 2232.8 | 2265.4 | 2292.6 | 2300.7 | 2311.6 |
| 32.5°  | 2167.6 | 2194.8 | 2211.1 | 2241.0 | 2246.4 |
| 35°    | 2105.1 | 2113.3 | 2132.3 | 2167.6 | 2173.0 |
| 37.5°  | 2010.1 | 2034.5 | 2072.5 | 2091.6 | 2094.3 |
| 40°    | 1917.7 | 1947.6 | 1977.5 | 1999.2 | 2020.9 |
| 42.5°  | 1847.1 | 1863.4 | 1898.7 | 1925.9 | 1923.1 |
| 45°    | 1743.9 | 1765.6 | 1817.2 | 1844.4 | 1852.5 |
| 47.5°  | 1651.5 | 1684.1 | 1722.1 | 1762.9 | 1771.0 |
| 50°    | 1548.3 | 1583.6 | 1637.9 | 1667.8 | 1684.1 |
| 52.5°  | 1461.4 | 1483.1 | 1537.4 | 1567.3 | 1591.8 |
| 55°    | 1350.0 | 1385.3 | 1436.9 | 1466.8 | 1496.7 |
| 57.5°  | 1241.4 | 1284.8 | 1336.4 | 1385.3 | 1401.6 |
| 60°    | 1132.7 | 1176.2 | 1222.3 | 1276.7 | 1287.5 |
| 62.5°  | 1029.5 | 1075.7 | 1124.6 | 1178.9 | 1200.6 |
| 65°    | 918.1  | 953.4  | 1024.0 | 1064.8 | 1092.0 |
| 67.5°  | 801.3  | 844.8  | 912.7  | 958.9  | 991.5  |
| 70°    | 692.7  | 741.6  | 806.7  | 863.8  | 882.8  |
| 72.5°  | 573.1  | 632.9  | 695.4  | 755.1  | 782.3  |
| 75°    | 464.5  | 513.4  | 592.2  | 657.3  | 673.6  |
| 77.5°  | 361.3  | 407.4  | 491.7  | 556.8  | 581.3  |
| 80°    | 252.6  | 309.7  | 399.3  | 464.5  | 494.4  |
| 82.5°  | 160.3  | 220.0  | 312.4  | 383.0  | 415.6  |
| 85°    | 81.5   | 146.7  | 241.8  | 312.4  | 342.3  |
| 87.5°  | 27.2   | 92.4   | 184.7  | 258.0  | 287.9  |
| 90°    | 5.4    | 62.5   | 149.4  | 214.6  | 241.8  |
| 92.5°  | 0.0    | 46.2   | 125.0  | 184.7  | 209.2  |
| 95°    | 0.0    | 40.7   | 108.7  | 163.0  | 187.4  |
| 97.5°  | 0.0    | 38.0   | 100.5  | 149.4  | 168.4  |
| 100°   | 0.0    | 35.3   | 92.4   | 138.5  | 157.5  |
| 102.5° | 0.0    | 32.6   | 86.9   | 130.4  | 149.4  |
| 105°   | 0.0    | 29.9   | 81.5   | 125.0  | 141.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 27.2  | 70.6 | 103.2 | 119.5 |
| 115°   | 0.0 | 24.4  | 65.2 | 100.5 | 114.1 |
| 117.5° | 0.0 | 24.4  | 62.5 | 92.4  | 105.9 |
| 120°   | 0.0 | 21.7  | 57.0 | 86.9  | 100.5 |
| 122.5° | 0.0 | 21.7  | 54.3 | 84.2  | 95.1  |
| 125°   | 0.0 | 21.7  | 51.6 | 76.1  | 89.6  |
| 127.5° | 0.0 | 19.0  | 48.9 | 73.3  | 81.5  |
| 130°   | 0.0 | 19.0  | 46.2 | 67.9  | 76.1  |
| 132.5° | 0.0 | 16.3  | 43.5 | 62.5  | 70.6  |
| 135°   | 0.0 | 16.3  | 40.7 | 57.0  | 67.9  |
| 137.5° | 0.0 | 16.3  | 38.0 | 54.3  | 59.8  |
| 140°   | 0.0 | 13.6  | 35.3 | 48.9  | 57.0  |
| 142.5° | 2.7 | 13.6  | 29.9 | 46.2  | 51.6  |
| 145°   | 2.7 | 13.6  | 29.9 | 40.7  | 46.2  |
| 147.5° | 2.7 | 10.9  | 27.2 | 38.0  | 43.5  |
| 150°   | 2.7 | 10.9  | 24.4 | 32.6  | 38.0  |
| 152.5° | 2.7 | 8.1   | 21.7 | 29.9  | 32.6  |
| 155°   | 2.7 | 8.1   | 19.0 | 27.2  | 29.9  |
| 157.5° | 2.7 | 8.1   | 16.3 | 21.7  | 24.4  |
| 160°   | 2.7 | 5.4   | 13.6 | 19.0  | 21.7  |
| 162.5° | 2.7 | 5.4   | 10.9 | 16.3  | 19.0  |
| 165°   | 2.7 | 5.4   | 8.1  | 13.6  | 13.6  |
| 167.5° | 2.7 | 5.4   | 8.1  | 10.9  | 10.9  |
| 170°   | 2.7 | 2.7   | 5.4  | 8.1   | 8.1   |
| 172.5° | 2.7 | 2.7   | 5.4  | 5.4   | 5.4   |
| 175°   | 2.7 | 2.7   | 2.7  | 2.7   | 5.4   |
| 177.5° | 2.7 | 2.7   | 2.7  | 2.7   | 2.7   |
| 180°   | 2.7 | 2.7   | 2.7  | 2.7   | 2.7   |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







|        |     |      |      |       |       |
|--------|-----|------|------|-------|-------|
| 107.5° | 0.0 | 29.9 | 78.8 | 116.8 | 133.1 |
| 110°   | 0.0 | 27.2 | 73.3 | 111.4 | 127.7 |



(END OF REPORT)