

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: P709908

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

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709908  
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-MID  
Description: 8foot, Wide Adapt Surface Wrap with, RD lens and MID lumen setting, 4000K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

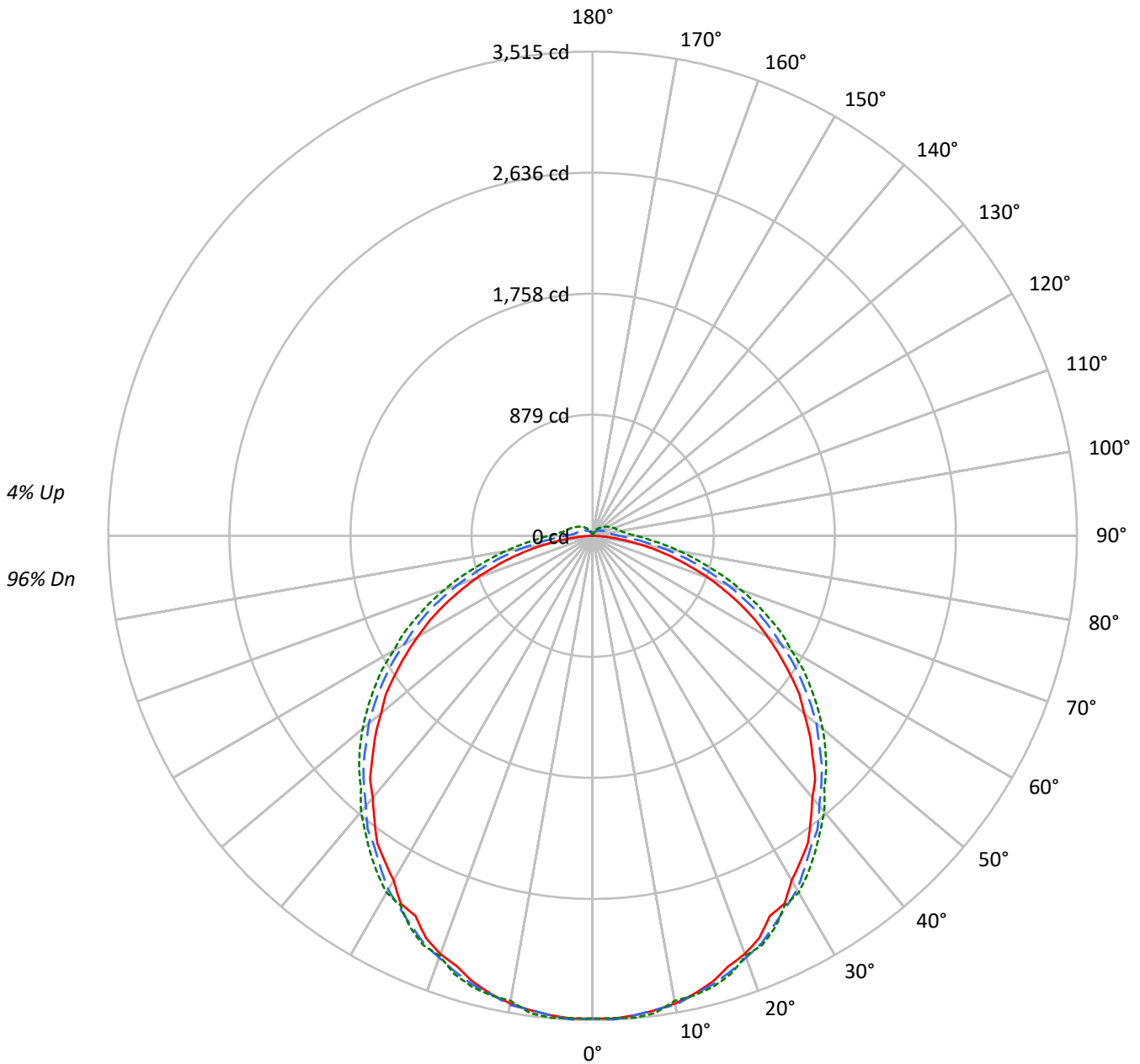
Lumens per Lamp: N/A  
Luminaire Lumens: 10810.0 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 7.42' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 71  
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 | 50 | 30 | 10 | 0 |  |   |  |  |  |  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |   |  |   |  |  |  |  |
| 0   | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |    |    |    |    |    |   |  |   |  |  |  |  |
| 1   | 107 | 102 | 97  | 93  | 104 | 99  | 95  | 91  | 94  | 91  | 88  | 90  | 87  | 84  | 85 | 83 | 81 | 79 |    |    |    |    |    |   |  |   |  |  |  |  |
| 2   | 97  | 89  | 81  | 76  | 94  | 86  | 80  | 74  | 82  | 77  | 72  | 78  | 74  | 70  | 74 | 71 | 67 | 65 |    |    |    |    |    |   |  |   |  |  |  |  |
| 3   | 88  | 78  | 69  | 62  | 85  | 76  | 68  | 62  | 72  | 65  | 60  | 69  | 63  | 58  | 66 | 61 | 57 | 54 |    |    |    |    |    |   |  |   |  |  |  |  |
| 4   | 81  | 69  | 60  | 53  | 78  | 67  | 59  | 52  | 64  | 57  | 51  | 61  | 55  | 50  | 58 | 53 | 49 | 46 |    |    |    |    |    |   |  |   |  |  |  |  |
| 5   | 74  | 61  | 52  | 45  | 72  | 60  | 51  | 45  | 57  | 50  | 44  | 55  | 48  | 43  | 52 | 47 | 42 | 40 |    |    |    |    |    |   |  |   |  |  |  |  |
| 6   | 68  | 55  | 46  | 39  | 66  | 54  | 45  | 39  | 52  | 44  | 38  | 49  | 43  | 38  | 47 | 42 | 37 | 35 |    |    |    |    |    |   |  |   |  |  |  |  |
| 7   | 63  | 50  | 41  | 35  | 61  | 49  | 40  | 34  | 47  | 39  | 34  | 45  | 38  | 33  | 43 | 37 | 33 | 31 |    |    |    |    |    |   |  |   |  |  |  |  |
| 8   | 59  | 45  | 37  | 31  | 57  | 45  | 36  | 31  | 43  | 35  | 30  | 41  | 35  | 30  | 40 | 34 | 29 | 27 |    |    |    |    |    |   |  |   |  |  |  |  |
| 9   | 55  | 42  | 33  | 28  | 53  | 41  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37 | 31 | 26 | 25 |    |    |    |    |    |   |  |   |  |  |  |  |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 34 | 28 | 24 | 22 |    |    |    |    |    |   |  |   |  |  |  |  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6126 | 6126 | 6126 |
| 5°  | 6118 | 6045 | 6053 |
| 10° | 6096 | 5970 | 5871 |
| 15° | 6031 | 5848 | 5813 |
| 20° | 5959 | 5725 | 5616 |
| 25° | 5809 | 5593 | 5520 |
| 30° | 5756 | 5478 | 5399 |
| 35° | 5721 | 5291 | 5248 |
| 40° | 5556 | 5144 | 5092 |
| 45° | 5453 | 5007 | 4918 |
| 50° | 5303 | 4836 | 4763 |
| 55° | 5155 | 4607 | 4566 |
| 60° | 4929 | 4324 | 4299 |
| 65° | 4684 | 4074 | 4061 |
| 70° | 4309 | 3699 | 3736 |
| 75° | 3739 | 3232 | 3337 |
| 80° | 2912 | 2718 | 2979 |
| 85° | 1677 | 2209 | 2658 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 332.7   | 3.1       |
| 10°-20°   | 950.7   | 8.8       |
| 20°-30°   | 1434.5  | 13.3      |
| 30°-40°   | 1731.3  | 16.0      |
| 40°-50°   | 1804.2  | 16.7      |
| 50°-60°   | 1653.7  | 15.3      |
| 60°-70°   | 1296.9  | 12.0      |
| 70°-80°   | 801.7   | 7.4       |
| 80°-90°   | 340.0   | 3.1       |
| 90°-100°  | 148.9   | 1.4       |
| 100°-110° | 105.7   | 1.0       |
| 110°-120° | 79.3    | 0.7       |
| 120°-130° | 56.6    | 0.5       |
| 130°-140° | 37.3    | 0.3       |
| 140°-150° | 22.1    | 0.2       |
| 150°-160° | 10.5    | 0.1       |
| 160°-170° | 3.5     | 0.0       |
| 170°-180° | 0.5     | 0.0       |
| 0°-30°    | 2717.9  | 25.1      |
| 0°-40°    | 4449.3  | 41.2      |
| 0°-60°    | 7907.2  | 73.1      |
| 0°-90°    | 10345.7 | 95.7      |
| 90°-120°  | 333.8   | 3.1       |
| 90°-150°  | 449.8   | 4.2       |
| 90°-180°  | 464.0   | 4.3       |
| 0°-180°   | 10810.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3505 | 3505  | 3505 | 3505  | 3505 |      |
| 5°   | 3494 | 3501  | 3494 | 3494  | 3512 | 332  |
| 15°  | 3354 | 3361  | 3371 | 3382  | 3389 | 945  |
| 25°  | 3044 | 3097  | 3118 | 3122  | 3136 | 1416 |
| 35°  | 2724 | 2735  | 2760 | 2805  | 2812 | 1694 |
| 45°  | 2257 | 2285  | 2352 | 2387  | 2397 | 1743 |
| 55°  | 1747 | 1793  | 1860 | 1898  | 1937 | 1561 |
| 65°  | 1188 | 1234  | 1325 | 1378  | 1413 | 1172 |
| 75°  | 601  | 664   | 766  | 851   | 872  | 638  |
| 85°  | 106  | 190   | 313  | 404   | 443  | 134  |
| 90°  | 7    | 81    | 193  | 278   | 313  | 7    |
| 95°  | 0    | 53    | 141  | 211   | 243  | 0    |
| 105° | 0    | 39    | 106  | 162   | 183  | 0    |
| 115° | 0    | 32    | 84   | 130   | 148  | 0    |
| 125° | 0    | 28    | 67   | 98    | 116  | 0    |
| 135° | 0    | 21    | 53   | 74    | 88   | 0    |
| 145° | 4    | 18    | 39   | 53    | 60   | 2    |
| 155° | 4    | 10    | 25   | 35    | 39   | 2    |
| 165° | 4    | 7     | 10   | 18    | 18   | 1    |
| 175° | 4    | 4     | 4    | 4     | 7    | 0    |
| 180° | 4    | 4     | 4    | 4     | 4    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3504.8 | 3504.8 | 3504.8 | 3504.8 | 3504.8 |
| 2.5°   | 3508.3 | 3522.3 | 3515.3 | 3508.3 | 3504.8 |
| 5°     | 3494.2 | 3501.2 | 3494.2 | 3494.2 | 3511.8 |
| 7.5°   | 3473.1 | 3483.7 | 3469.6 | 3490.7 | 3494.2 |
| 10°    | 3448.5 | 3462.6 | 3459.1 | 3466.1 | 3427.4 |
| 12.5°  | 3406.3 | 3423.9 | 3409.8 | 3427.4 | 3416.9 |
| 15°    | 3353.6 | 3360.6 | 3371.2 | 3381.7 | 3388.8 |
| 17.5°  | 3276.3 | 3307.9 | 3318.4 | 3329.0 | 3336.0 |
| 20°    | 3230.6 | 3248.1 | 3258.7 | 3255.2 | 3244.6 |
| 22.5°  | 3160.3 | 3170.8 | 3202.4 | 3195.4 | 3216.5 |
| 25°    | 3044.3 | 3097.0 | 3118.1 | 3121.6 | 3135.6 |
| 27.5°  | 3012.6 | 3016.1 | 3040.7 | 3061.8 | 3023.2 |
| 30°    | 2889.6 | 2931.8 | 2966.9 | 2977.5 | 2991.5 |
| 32.5°  | 2805.2 | 2840.4 | 2861.5 | 2900.1 | 2907.2 |
| 35°    | 2724.4 | 2734.9 | 2759.5 | 2805.2 | 2812.2 |
| 37.5°  | 2601.3 | 2633.0 | 2682.2 | 2706.8 | 2710.3 |
| 40°    | 2481.8 | 2520.5 | 2559.1 | 2587.3 | 2615.4 |
| 42.5°  | 2390.4 | 2411.5 | 2457.2 | 2492.3 | 2488.8 |
| 45°    | 2256.8 | 2284.9 | 2351.7 | 2386.9 | 2397.4 |
| 47.5°  | 2137.3 | 2179.5 | 2228.7 | 2281.4 | 2292.0 |
| 50°    | 2003.7 | 2049.4 | 2119.7 | 2158.4 | 2179.5 |
| 52.5°  | 1891.2 | 1919.4 | 1989.7 | 2028.3 | 2060.0 |
| 55°    | 1747.1 | 1792.8 | 1859.6 | 1898.3 | 1936.9 |
| 57.5°  | 1606.5 | 1662.7 | 1729.5 | 1792.8 | 1813.9 |
| 60°    | 1465.9 | 1522.1 | 1581.9 | 1652.2 | 1666.3 |
| 62.5°  | 1332.3 | 1392.1 | 1455.3 | 1525.6 | 1553.8 |
| 65°    | 1188.2 | 1233.9 | 1325.3 | 1378.0 | 1413.2 |
| 67.5°  | 1037.0 | 1093.3 | 1181.1 | 1240.9 | 1283.1 |
| 70°    | 896.4  | 959.7  | 1044.0 | 1117.9 | 1142.5 |
| 72.5°  | 741.7  | 819.1  | 899.9  | 977.3  | 1012.4 |
| 75°    | 601.1  | 664.4  | 766.3  | 850.7  | 871.8  |
| 77.5°  | 467.5  | 527.3  | 636.3  | 720.6  | 752.3  |
| 80°    | 326.9  | 400.7  | 516.7  | 601.1  | 639.8  |
| 82.5°  | 207.4  | 284.7  | 404.3  | 495.7  | 537.8  |
| 85°    | 105.5  | 189.8  | 312.9  | 404.3  | 442.9  |
| 87.5°  | 35.2   | 119.5  | 239.0  | 334.0  | 372.6  |
| 90°    | 7.0    | 80.9   | 193.3  | 277.7  | 312.9  |
| 92.5°  | 0.0    | 59.8   | 161.7  | 239.0  | 270.7  |
| 95°    | 0.0    | 52.7   | 140.6  | 210.9  | 242.6  |
| 97.5°  | 0.0    | 49.2   | 130.1  | 193.3  | 217.9  |
| 100°   | 0.0    | 45.7   | 119.5  | 179.3  | 203.9  |
| 102.5° | 0.0    | 42.2   | 112.5  | 168.7  | 193.3  |
| 105°   | 0.0    | 38.7   | 105.5  | 161.7  | 182.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 35.2  | 91.4 | 133.6 | 154.7 |
| 115°   | 0.0 | 31.6  | 84.4 | 130.1 | 147.6 |
| 117.5° | 0.0 | 31.6  | 80.9 | 119.5 | 137.1 |
| 120°   | 0.0 | 28.1  | 73.8 | 112.5 | 130.1 |
| 122.5° | 0.0 | 28.1  | 70.3 | 109.0 | 123.0 |
| 125°   | 0.0 | 28.1  | 66.8 | 98.4  | 116.0 |
| 127.5° | 0.0 | 24.6  | 63.3 | 94.9  | 105.5 |
| 130°   | 0.0 | 24.6  | 59.8 | 87.9  | 98.4  |
| 132.5° | 0.0 | 21.1  | 56.2 | 80.9  | 91.4  |
| 135°   | 0.0 | 21.1  | 52.7 | 73.8  | 87.9  |
| 137.5° | 0.0 | 21.1  | 49.2 | 70.3  | 77.3  |
| 140°   | 0.0 | 17.6  | 45.7 | 63.3  | 73.8  |
| 142.5° | 3.5 | 17.6  | 38.7 | 59.8  | 66.8  |
| 145°   | 3.5 | 17.6  | 38.7 | 52.7  | 59.8  |
| 147.5° | 3.5 | 14.1  | 35.2 | 49.2  | 56.2  |
| 150°   | 3.5 | 14.1  | 31.6 | 42.2  | 49.2  |
| 152.5° | 3.5 | 10.5  | 28.1 | 38.7  | 42.2  |
| 155°   | 3.5 | 10.5  | 24.6 | 35.2  | 38.7  |
| 157.5° | 3.5 | 10.5  | 21.1 | 28.1  | 31.6  |
| 160°   | 3.5 | 7.0   | 17.6 | 24.6  | 28.1  |
| 162.5° | 3.5 | 7.0   | 14.1 | 21.1  | 24.6  |
| 165°   | 3.5 | 7.0   | 10.5 | 17.6  | 17.6  |
| 167.5° | 3.5 | 7.0   | 10.5 | 14.1  | 14.1  |
| 170°   | 3.5 | 3.5   | 7.0  | 10.5  | 10.5  |
| 172.5° | 3.5 | 3.5   | 7.0  | 7.0   | 7.0   |
| 175°   | 3.5 | 3.5   | 3.5  | 3.5   | 7.0   |
| 177.5° | 3.5 | 3.5   | 3.5  | 3.5   | 3.5   |
| 180°   | 3.5 | 3.5   | 3.5  | 3.5   | 3.5   |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







|        |     |      |       |       |       |
|--------|-----|------|-------|-------|-------|
| 107.5° | 0.0 | 38.7 | 101.9 | 151.2 | 172.2 |
| 110°   | 0.0 | 35.2 | 94.9  | 144.1 | 165.2 |



(END OF REPORT)