

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: P709909

Luminaire Tested: **8AWWS-L3C39-UNV-5000K-HI**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709909  
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-5000K-HI  
Description: 8foot, Wide Adapt Surface Wrap with, RD lens and HI lumen setting,  
5000K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

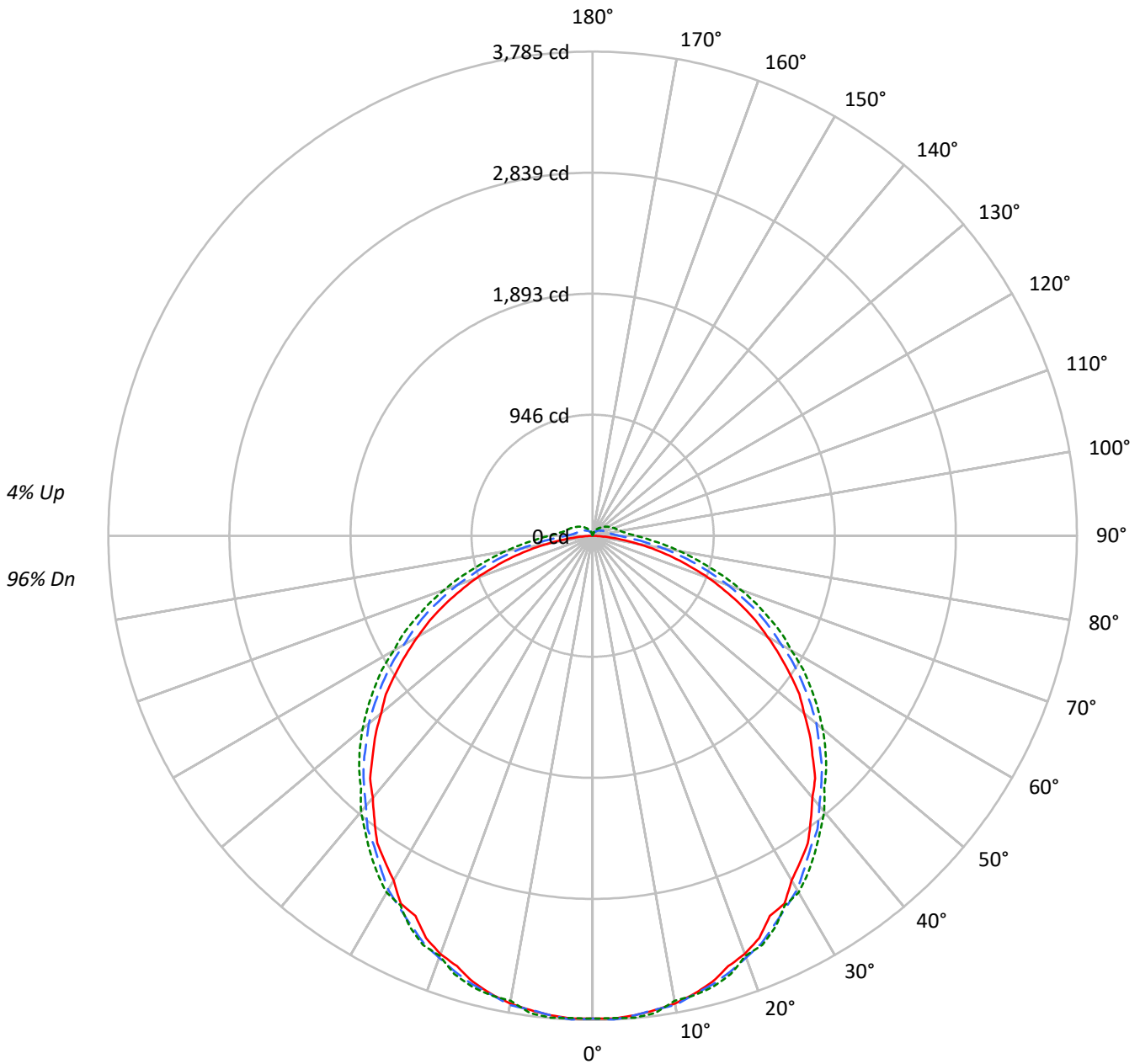
Lumens per Lamp: N/A  
Luminaire Lumens: 11640.0 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 7.42' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 84  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 | 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°  | 6596 | 6596 | 6596 |
| 5°  | 6588 | 6509 | 6518 |
| 10° | 6564 | 6428 | 6322 |
| 15° | 6494 | 6297 | 6259 |
| 20° | 6417 | 6165 | 6047 |
| 25° | 6255 | 6023 | 5944 |
| 30° | 6197 | 5899 | 5813 |
| 35° | 6160 | 5698 | 5651 |
| 40° | 5982 | 5539 | 5483 |
| 45° | 5872 | 5391 | 5296 |
| 50° | 5711 | 5207 | 5129 |
| 55° | 5551 | 4961 | 4917 |
| 60° | 5307 | 4656 | 4629 |
| 65° | 5043 | 4387 | 4373 |
| 70° | 4640 | 3983 | 4023 |
| 75° | 4027 | 3481 | 3593 |
| 80° | 3136 | 2927 | 3208 |
| 85° | 1805 | 2378 | 2862 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 358.2   | 3.1       |
| 10°-20°   | 1023.7  | 8.8       |
| 20°-30°   | 1544.7  | 13.3      |
| 30°-40°   | 1864.3  | 16.0      |
| 40°-50°   | 1942.7  | 16.7      |
| 50°-60°   | 1780.7  | 15.3      |
| 60°-70°   | 1396.4  | 12.0      |
| 70°-80°   | 863.3   | 7.4       |
| 80°-90°   | 366.1   | 3.1       |
| 90°-100°  | 160.3   | 1.4       |
| 100°-110° | 113.8   | 1.0       |
| 110°-120° | 85.4    | 0.7       |
| 120°-130° | 60.9    | 0.5       |
| 130°-140° | 40.1    | 0.3       |
| 140°-150° | 23.8    | 0.2       |
| 150°-160° | 11.3    | 0.1       |
| 160°-170° | 3.7     | 0.0       |
| 170°-180° | 0.5     | 0.0       |
| <hr/>     |         |           |
| 0°-30°    | 2926.6  | 25.1      |
| 0°-40°    | 4790.9  | 41.2      |
| 0°-60°    | 8514.3  | 73.1      |
| 0°-90°    | 11140.1 | 95.7      |
| 90°-120°  | 359.5   | 3.1       |
| 90°-150°  | 484.3   | 4.2       |
| 90°-180°  | 500.0   | 4.3       |
| 0°-180°   | 11640.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3774 | 3774  | 3774 | 3774  | 3774 |      |
| 5°   | 3762 | 3770  | 3762 | 3762  | 3781 | 358  |
| 15°  | 3611 | 3619  | 3630 | 3641  | 3649 | 1017 |
| 25°  | 3278 | 3335  | 3358 | 3361  | 3376 | 1525 |
| 35°  | 2934 | 2945  | 2971 | 3021  | 3028 | 1824 |
| 45°  | 2430 | 2460  | 2532 | 2570  | 2582 | 1876 |
| 55°  | 1881 | 1930  | 2002 | 2044  | 2086 | 1681 |
| 65°  | 1279 | 1329  | 1427 | 1484  | 1522 | 1262 |
| 75°  | 647  | 715   | 825  | 916   | 939  | 687  |
| 85°  | 114  | 204   | 337  | 435   | 477  | 145  |
| 90°  | 8    | 87    | 208  | 299   | 337  | 7    |
| 95°  | 0    | 57    | 151  | 227   | 261  | 0    |
| 105° | 0    | 42    | 114  | 174   | 197  | 0    |
| 115° | 0    | 34    | 91   | 140   | 159  | 0    |
| 125° | 0    | 30    | 72   | 106   | 125  | 0    |
| 135° | 0    | 23    | 57   | 80    | 95   | 0    |
| 145° | 4    | 19    | 42   | 57    | 64   | 2    |
| 155° | 4    | 11    | 26   | 38    | 42   | 2    |
| 165° | 4    | 8     | 11   | 19    | 19   | 1    |
| 175° | 4    | 4     | 4    | 4     | 8    | 0    |
| 180° | 4    | 4     | 4    | 4     | 4    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3773.9 | 3773.9 | 3773.9 | 3773.9 | 3773.9 |
| 2.5°   | 3777.6 | 3792.8 | 3785.2 | 3777.6 | 3773.9 |
| 5°     | 3762.5 | 3770.1 | 3762.5 | 3762.5 | 3781.4 |
| 7.5°   | 3739.8 | 3751.1 | 3736.0 | 3758.7 | 3762.5 |
| 10°    | 3713.3 | 3728.4 | 3724.6 | 3732.2 | 3690.6 |
| 12.5°  | 3667.9 | 3686.8 | 3671.7 | 3690.6 | 3679.2 |
| 15°    | 3611.1 | 3618.7 | 3630.0 | 3641.4 | 3648.9 |
| 17.5°  | 3527.8 | 3561.9 | 3573.2 | 3584.6 | 3592.2 |
| 20°    | 3478.6 | 3497.5 | 3508.9 | 3505.1 | 3493.7 |
| 22.5°  | 3402.9 | 3414.3 | 3448.3 | 3440.8 | 3463.5 |
| 25°    | 3278.0 | 3334.8 | 3357.5 | 3361.3 | 3376.4 |
| 27.5°  | 3243.9 | 3247.7 | 3274.2 | 3296.9 | 3255.3 |
| 30°    | 3111.4 | 3156.9 | 3194.7 | 3206.1 | 3221.2 |
| 32.5°  | 3020.6 | 3058.4 | 3081.2 | 3122.8 | 3130.4 |
| 35°    | 2933.5 | 2944.9 | 2971.4 | 3020.6 | 3028.2 |
| 37.5°  | 2801.1 | 2835.1 | 2888.1 | 2914.6 | 2918.4 |
| 40°    | 2672.4 | 2714.0 | 2755.6 | 2785.9 | 2816.2 |
| 42.5°  | 2573.9 | 2596.7 | 2645.9 | 2683.7 | 2679.9 |
| 45°    | 2430.1 | 2460.4 | 2532.3 | 2570.2 | 2581.5 |
| 47.5°  | 2301.4 | 2346.8 | 2399.8 | 2456.6 | 2468.0 |
| 50°    | 2157.6 | 2206.8 | 2282.5 | 2324.1 | 2346.8 |
| 52.5°  | 2036.4 | 2066.7 | 2142.4 | 2184.1 | 2218.1 |
| 55°    | 1881.2 | 1930.5 | 2002.4 | 2044.0 | 2085.7 |
| 57.5°  | 1729.8 | 1790.4 | 1862.3 | 1930.5 | 1953.2 |
| 60°    | 1578.4 | 1639.0 | 1703.3 | 1779.0 | 1794.2 |
| 62.5°  | 1434.6 | 1498.9 | 1567.1 | 1642.8 | 1673.1 |
| 65°    | 1279.4 | 1328.6 | 1427.0 | 1483.8 | 1521.7 |
| 67.5°  | 1116.6 | 1177.2 | 1271.8 | 1336.2 | 1381.6 |
| 70°    | 965.2  | 1033.4 | 1124.2 | 1203.7 | 1230.2 |
| 72.5°  | 798.7  | 882.0  | 969.0  | 1052.3 | 1090.1 |
| 75°    | 647.3  | 715.4  | 825.2  | 916.0  | 938.7  |
| 77.5°  | 503.4  | 567.8  | 685.1  | 776.0  | 810.0  |
| 80°    | 352.0  | 431.5  | 556.4  | 647.3  | 688.9  |
| 82.5°  | 223.3  | 306.6  | 435.3  | 533.7  | 579.1  |
| 85°    | 113.6  | 204.4  | 336.9  | 435.3  | 476.9  |
| 87.5°  | 37.9   | 128.7  | 257.4  | 359.6  | 401.2  |
| 90°    | 7.6    | 87.1   | 208.2  | 299.0  | 336.9  |
| 92.5°  | 0.0    | 64.3   | 174.1  | 257.4  | 291.5  |
| 95°    | 0.0    | 56.8   | 151.4  | 227.1  | 261.2  |
| 97.5°  | 0.0    | 53.0   | 140.1  | 208.2  | 234.7  |
| 100°   | 0.0    | 49.2   | 128.7  | 193.0  | 219.5  |
| 102.5° | 0.0    | 45.4   | 121.1  | 181.7  | 208.2  |
| 105°   | 0.0    | 41.6   | 113.6  | 174.1  | 196.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 37.9  | 98.4 | 143.8 | 166.5 |
| 115°   | 0.0 | 34.1  | 90.8 | 140.1 | 159.0 |
| 117.5° | 0.0 | 34.1  | 87.1 | 128.7 | 147.6 |
| 120°   | 0.0 | 30.3  | 79.5 | 121.1 | 140.1 |
| 122.5° | 0.0 | 30.3  | 75.7 | 117.3 | 132.5 |
| 125°   | 0.0 | 30.3  | 71.9 | 106.0 | 124.9 |
| 127.5° | 0.0 | 26.5  | 68.1 | 102.2 | 113.6 |
| 130°   | 0.0 | 26.5  | 64.3 | 94.6  | 106.0 |
| 132.5° | 0.0 | 22.7  | 60.6 | 87.1  | 98.4  |
| 135°   | 0.0 | 22.7  | 56.8 | 79.5  | 94.6  |
| 137.5° | 0.0 | 22.7  | 53.0 | 75.7  | 83.3  |
| 140°   | 0.0 | 18.9  | 49.2 | 68.1  | 79.5  |
| 142.5° | 3.8 | 18.9  | 41.6 | 64.3  | 71.9  |
| 145°   | 3.8 | 18.9  | 41.6 | 56.8  | 64.3  |
| 147.5° | 3.8 | 15.1  | 37.9 | 53.0  | 60.6  |
| 150°   | 3.8 | 15.1  | 34.1 | 45.4  | 53.0  |
| 152.5° | 3.8 | 11.4  | 30.3 | 41.6  | 45.4  |
| 155°   | 3.8 | 11.4  | 26.5 | 37.9  | 41.6  |
| 157.5° | 3.8 | 11.4  | 22.7 | 30.3  | 34.1  |
| 160°   | 3.8 | 7.6   | 18.9 | 26.5  | 30.3  |
| 162.5° | 3.8 | 7.6   | 15.1 | 22.7  | 26.5  |
| 165°   | 3.8 | 7.6   | 11.4 | 18.9  | 18.9  |
| 167.5° | 3.8 | 7.6   | 11.4 | 15.1  | 15.1  |
| 170°   | 3.8 | 3.8   | 7.6  | 11.4  | 11.4  |
| 172.5° | 3.8 | 3.8   | 7.6  | 7.6   | 7.6   |
| 175°   | 3.8 | 3.8   | 3.8  | 3.8   | 7.6   |
| 177.5° | 3.8 | 3.8   | 3.8  | 3.8   | 3.8   |
| 180°   | 3.8 | 3.8   | 3.8  | 3.8   | 3.8   |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







|        |     |      |       |       |       |
|--------|-----|------|-------|-------|-------|
| 107.5° | 0.0 | 41.6 | 109.8 | 162.8 | 185.5 |
| 110°   | 0.0 | 37.9 | 102.2 | 155.2 | 177.9 |



(END OF REPORT)