

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: P709879

Luminaire Tested: **8AWWS-L3C3-HO-UNV-4000K-HI**

Issue Date: 9/26/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P709879  
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-L3C3-HO-UNV-4000K-HI  
Description: 8foot, Wide Adapt Surface Wrap with, RD lens and HI lumen setting,  
4000K, 80CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

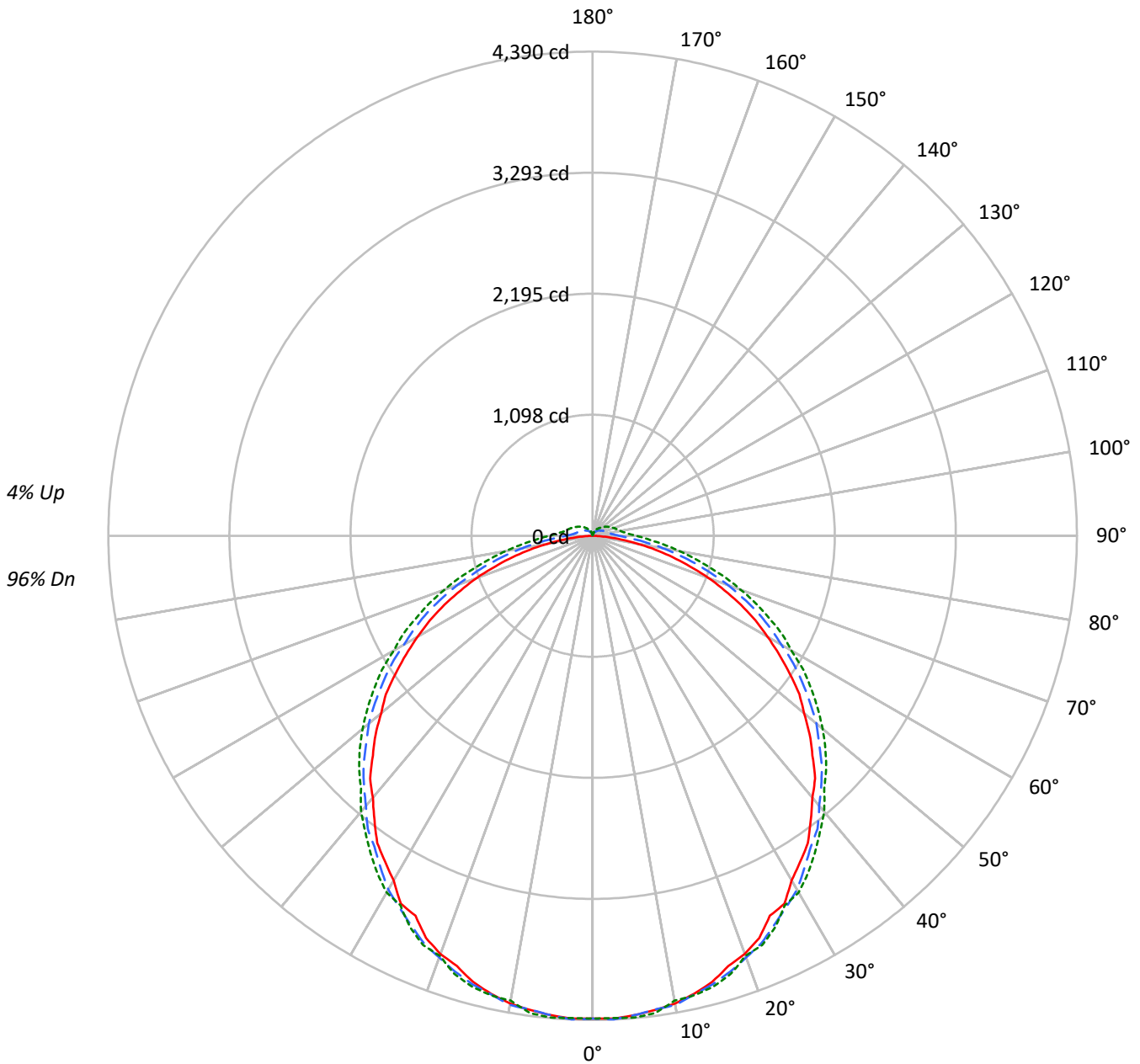
Lumens per Lamp: N/A  
Luminaire Lumens: 13499.0 lumens  
Efficiency: N/A  
Efficacy: 162.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 7.42' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 83  
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°  | 7649 | 7649 | 7649 |
| 5°  | 7640 | 7549 | 7558 |
| 10° | 7612 | 7454 | 7331 |
| 15° | 7531 | 7302 | 7259 |
| 20° | 7441 | 7150 | 7013 |
| 25° | 7254 | 6984 | 6893 |
| 30° | 7187 | 6841 | 6742 |
| 35° | 7144 | 6607 | 6553 |
| 40° | 6938 | 6423 | 6359 |
| 45° | 6810 | 6252 | 6142 |
| 50° | 6623 | 6039 | 5948 |
| 55° | 6437 | 5753 | 5702 |
| 60° | 6154 | 5399 | 5369 |
| 65° | 5849 | 5087 | 5071 |
| 70° | 5382 | 4619 | 4665 |
| 75° | 4669 | 4037 | 4167 |
| 80° | 3636 | 3395 | 3720 |
| 85° | 2093 | 2758 | 3320 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 415.4   | 3.1       |
| 10°-20°   | 1187.2  | 8.8       |
| 20°-30°   | 1791.3  | 13.3      |
| 30°-40°   | 2162.0  | 16.0      |
| 40°-50°   | 2253.0  | 16.7      |
| 50°-60°   | 2065.1  | 15.3      |
| 60°-70°   | 1619.5  | 12.0      |
| 70°-80°   | 1001.1  | 7.4       |
| 80°-90°   | 424.5   | 3.1       |
| 90°-100°  | 185.9   | 1.4       |
| 100°-110° | 132.0   | 1.0       |
| 110°-120° | 99.0    | 0.7       |
| 120°-130° | 70.6    | 0.5       |
| 130°-140° | 46.5    | 0.3       |
| 140°-150° | 27.6    | 0.2       |
| 150°-160° | 13.2    | 0.1       |
| 160°-170° | 4.3     | 0.0       |
| 170°-180° | 0.6     | 0.0       |
| 0°-30°    | 3394.0  | 25.1      |
| 0°-40°    | 5556.0  | 41.2      |
| 0°-60°    | 9874.1  | 73.1      |
| 0°-90°    | 12919.2 | 95.7      |
| 90°-120°  | 416.9   | 3.1       |
| 90°-150°  | 561.6   | 4.2       |
| 90°-180°  | 580.0   | 4.3       |
| 0°-180°   | 13499.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4377 | 4377  | 4377 | 4377  | 4377 |      |
| 5°   | 4363 | 4372  | 4363 | 4363  | 4385 | 415  |
| 15°  | 4188 | 4197  | 4210 | 4223  | 4232 | 1179 |
| 25°  | 3802 | 3867  | 3894 | 3898  | 3916 | 1769 |
| 35°  | 3402 | 3415  | 3446 | 3503  | 3512 | 2115 |
| 45°  | 2818 | 2853  | 2937 | 2981  | 2994 | 2176 |
| 55°  | 2182 | 2239  | 2322 | 2370  | 2419 | 1949 |
| 65°  | 1484 | 1541  | 1655 | 1721  | 1765 | 1464 |
| 75°  | 751  | 830   | 957  | 1062  | 1089 | 797  |
| 85°  | 132  | 237   | 391  | 505   | 553  | 168  |
| 90°  | 9    | 101   | 241  | 347   | 391  | 8    |
| 95°  | 0    | 66    | 176  | 263   | 303  | 0    |
| 105° | 0    | 48    | 132  | 202   | 228  | 0    |
| 115° | 0    | 40    | 105  | 162   | 184  | 0    |
| 125° | 0    | 35    | 83   | 123   | 145  | 0    |
| 135° | 0    | 26    | 66   | 92    | 110  | 0    |
| 145° | 4    | 22    | 48   | 66    | 75   | 2    |
| 155° | 4    | 13    | 31   | 44    | 48   | 2    |
| 165° | 4    | 9     | 13   | 22    | 22   | 1    |
| 175° | 4    | 4     | 4    | 4     | 9    | 0    |
| 180° | 4    | 4     | 4    | 4     | 4    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 4376.6 | 4376.6 | 4376.6 | 4376.6 | 4376.6 |
| 2.5°   | 4381.0 | 4398.5 | 4389.7 | 4381.0 | 4376.6 |
| 5°     | 4363.4 | 4372.2 | 4363.4 | 4363.4 | 4385.3 |
| 7.5°   | 4337.1 | 4350.2 | 4332.7 | 4359.0 | 4363.4 |
| 10°    | 4306.3 | 4323.9 | 4319.5 | 4328.3 | 4280.0 |
| 12.5°  | 4253.7 | 4275.6 | 4258.0 | 4280.0 | 4266.8 |
| 15°    | 4187.8 | 4196.6 | 4209.8 | 4222.9 | 4231.7 |
| 17.5°  | 4091.2 | 4130.7 | 4143.9 | 4157.1 | 4165.9 |
| 20°    | 4034.2 | 4056.1 | 4069.3 | 4064.9 | 4051.7 |
| 22.5°  | 3946.4 | 3959.5 | 3999.1 | 3990.3 | 4016.6 |
| 25°    | 3801.5 | 3867.4 | 3893.7 | 3898.1 | 3915.6 |
| 27.5°  | 3762.0 | 3766.4 | 3797.1 | 3823.5 | 3775.2 |
| 30°    | 3608.4 | 3661.0 | 3704.9 | 3718.1 | 3735.7 |
| 32.5°  | 3503.0 | 3546.9 | 3573.2 | 3621.5 | 3630.3 |
| 35°    | 3402.0 | 3415.2 | 3445.9 | 3503.0 | 3511.8 |
| 37.5°  | 3248.4 | 3287.9 | 3349.4 | 3380.1 | 3384.5 |
| 40°    | 3099.2 | 3147.4 | 3195.7 | 3230.8 | 3266.0 |
| 42.5°  | 2985.0 | 3011.4 | 3068.4 | 3112.3 | 3107.9 |
| 45°    | 2818.2 | 2853.3 | 2936.7 | 2980.6 | 2993.8 |
| 47.5°  | 2669.0 | 2721.6 | 2783.1 | 2848.9 | 2862.1 |
| 50°    | 2502.2 | 2559.2 | 2647.0 | 2695.3 | 2721.6 |
| 52.5°  | 2361.7 | 2396.8 | 2484.6 | 2532.9 | 2572.4 |
| 55°    | 2181.7 | 2238.8 | 2322.2 | 2370.5 | 2418.7 |
| 57.5°  | 2006.1 | 2076.3 | 2159.8 | 2238.8 | 2265.1 |
| 60°    | 1830.5 | 1900.8 | 1975.4 | 2063.2 | 2080.7 |
| 62.5°  | 1663.7 | 1738.3 | 1817.4 | 1905.1 | 1940.3 |
| 65°    | 1483.7 | 1540.8 | 1654.9 | 1720.8 | 1764.7 |
| 67.5°  | 1295.0 | 1365.2 | 1475.0 | 1549.6 | 1602.3 |
| 70°    | 1119.4 | 1198.4 | 1303.8 | 1395.9 | 1426.7 |
| 72.5°  | 926.2  | 1022.8 | 1123.8 | 1220.3 | 1264.2 |
| 75°    | 750.6  | 829.7  | 957.0  | 1062.3 | 1088.7 |
| 77.5°  | 583.8  | 658.5  | 794.5  | 899.9  | 939.4  |
| 80°    | 408.2  | 500.4  | 645.3  | 750.6  | 798.9  |
| 82.5°  | 259.0  | 355.6  | 504.8  | 619.0  | 671.6  |
| 85°    | 131.7  | 237.0  | 390.7  | 504.8  | 553.1  |
| 87.5°  | 43.9   | 149.3  | 298.5  | 417.0  | 465.3  |
| 90°    | 8.8    | 101.0  | 241.4  | 346.8  | 390.7  |
| 92.5°  | 0.0    | 74.6   | 201.9  | 298.5  | 338.0  |
| 95°    | 0.0    | 65.8   | 175.6  | 263.4  | 302.9  |
| 97.5°  | 0.0    | 61.5   | 162.4  | 241.4  | 272.2  |
| 100°   | 0.0    | 57.1   | 149.3  | 223.9  | 254.6  |
| 102.5° | 0.0    | 52.7   | 140.5  | 210.7  | 241.4  |
| 105°   | 0.0    | 48.3   | 131.7  | 201.9  | 228.3  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 43.9  | 114.1 | 166.8 | 193.1 |
| 115°   | 0.0 | 39.5  | 105.4 | 162.4 | 184.4 |
| 117.5° | 0.0 | 39.5  | 101.0 | 149.3 | 171.2 |
| 120°   | 0.0 | 35.1  | 92.2  | 140.5 | 162.4 |
| 122.5° | 0.0 | 35.1  | 87.8  | 136.1 | 153.6 |
| 125°   | 0.0 | 35.1  | 83.4  | 122.9 | 144.9 |
| 127.5° | 0.0 | 30.7  | 79.0  | 118.5 | 131.7 |
| 130°   | 0.0 | 30.7  | 74.6  | 109.7 | 122.9 |
| 132.5° | 0.0 | 26.3  | 70.2  | 101.0 | 114.1 |
| 135°   | 0.0 | 26.3  | 65.8  | 92.2  | 109.7 |
| 137.5° | 0.0 | 26.3  | 61.5  | 87.8  | 96.6  |
| 140°   | 0.0 | 21.9  | 57.1  | 79.0  | 92.2  |
| 142.5° | 4.4 | 21.9  | 48.3  | 74.6  | 83.4  |
| 145°   | 4.4 | 21.9  | 48.3  | 65.8  | 74.6  |
| 147.5° | 4.4 | 17.6  | 43.9  | 61.5  | 70.2  |
| 150°   | 4.4 | 17.6  | 39.5  | 52.7  | 61.5  |
| 152.5° | 4.4 | 13.2  | 35.1  | 48.3  | 52.7  |
| 155°   | 4.4 | 13.2  | 30.7  | 43.9  | 48.3  |
| 157.5° | 4.4 | 13.2  | 26.3  | 35.1  | 39.5  |
| 160°   | 4.4 | 8.8   | 21.9  | 30.7  | 35.1  |
| 162.5° | 4.4 | 8.8   | 17.6  | 26.3  | 30.7  |
| 165°   | 4.4 | 8.8   | 13.2  | 21.9  | 21.9  |
| 167.5° | 4.4 | 8.8   | 13.2  | 17.6  | 17.6  |
| 170°   | 4.4 | 4.4   | 8.8   | 13.2  | 13.2  |
| 172.5° | 4.4 | 4.4   | 8.8   | 8.8   | 8.8   |
| 175°   | 4.4 | 4.4   | 4.4   | 4.4   | 8.8   |
| 177.5° | 4.4 | 4.4   | 4.4   | 4.4   | 4.4   |
| 180°   | 4.4 | 4.4   | 4.4   | 4.4   | 4.4   |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







|        |     |      |       |       |       |
|--------|-----|------|-------|-------|-------|
| 107.5° | 0.0 | 48.3 | 127.3 | 188.8 | 215.1 |
| 110°   | 0.0 | 43.9 | 118.5 | 180.0 | 206.3 |



(END OF REPORT)