

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: P709798

Luminaire Tested: **8AWS-L3C39-CA-UNV-3500K-HI**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-090-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/26/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8AWS-L3C39-CA-UNV-3500K-HI  
Description: 8foot, Adapt Surface Wrap with, RD lens and HI lumen setting,  
3500K, 90CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

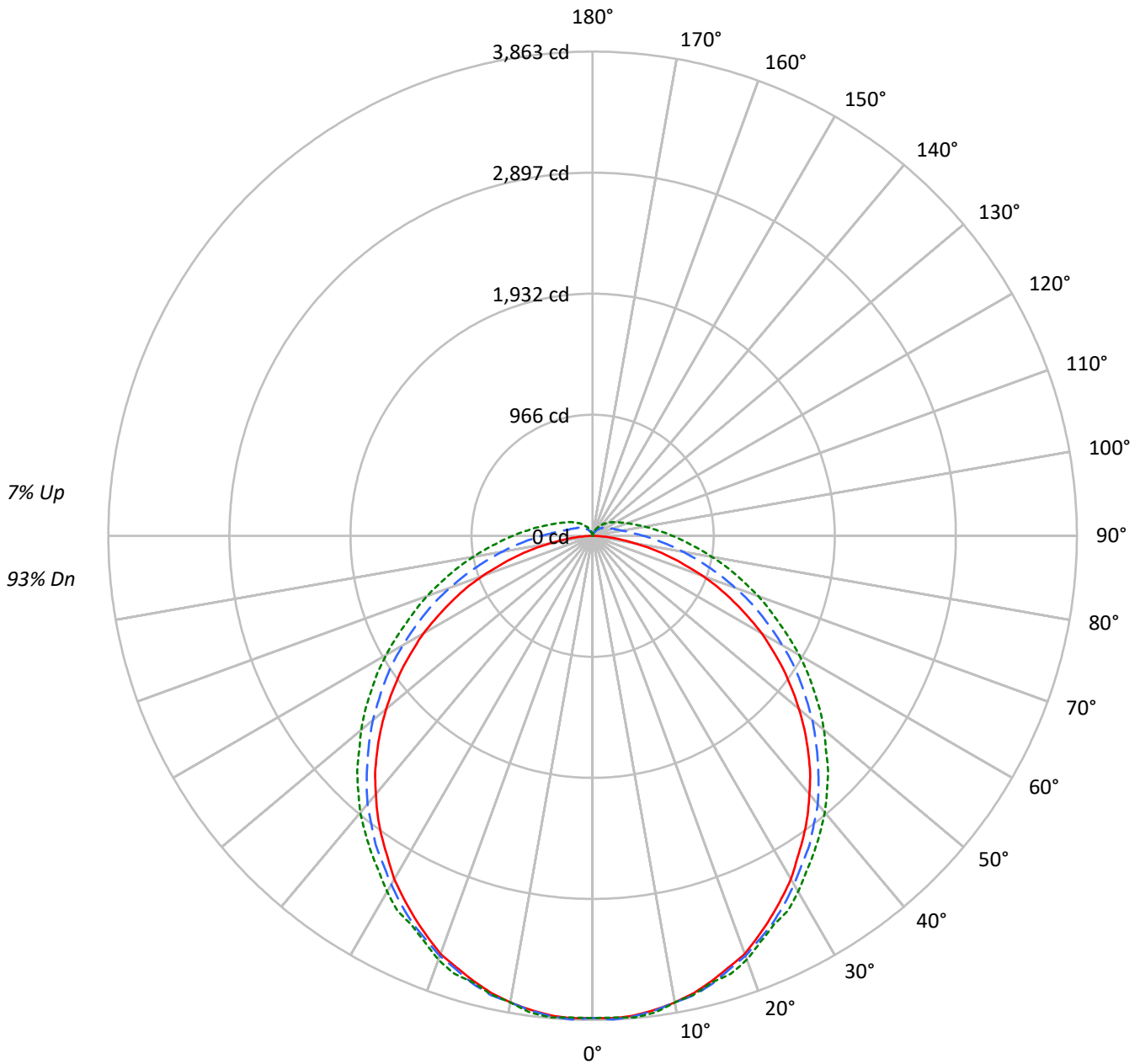
Lumens per Lamp: N/A  
Luminaire Lumens: 12460.0 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 7.42' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 82  
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   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 106 | 101 | 96  | 92  | 102 | 98  | 93  | 89  | 92  | 89  | 85  | 87  | 84  | 81  | 82 | 80 | 78 | 75 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 96  | 87  | 80  | 74  | 93  | 85  | 78  | 72  | 80  | 74  | 70  | 76  | 71  | 67  | 71 | 68 | 64 | 62 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 87  | 76  | 68  | 61  | 84  | 74  | 66  | 60  | 70  | 63  | 58  | 66  | 61  | 56  | 63 | 58 | 54 | 52 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 80  | 67  | 58  | 51  | 77  | 65  | 57  | 51  | 62  | 55  | 49  | 59  | 53  | 48  | 56 | 51 | 46 | 44 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 73  | 60  | 51  | 44  | 71  | 58  | 50  | 43  | 56  | 48  | 42  | 53  | 46  | 41  | 50 | 45 | 40 | 38 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 68  | 54  | 45  | 38  | 65  | 53  | 44  | 38  | 50  | 43  | 37  | 48  | 41  | 36  | 46 | 40 | 35 | 33 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 63  | 49  | 40  | 34  | 60  | 48  | 39  | 33  | 46  | 38  | 33  | 43  | 37  | 32  | 42 | 36 | 31 | 29 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 58  | 45  | 36  | 30  | 56  | 44  | 35  | 30  | 42  | 34  | 29  | 40  | 33  | 29  | 38 | 32 | 28 | 26 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 54  | 41  | 33  | 27  | 53  | 40  | 32  | 27  | 38  | 31  | 26  | 37  | 30  | 26  | 35 | 29 | 25 | 23 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 51  | 38  | 30  | 24  | 49  | 37  | 29  | 24  | 35  | 29  | 24  | 34  | 28  | 23  | 33 | 27 | 23 | 21 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12131 | 12131 | 12131 |
| 5°  | 12143 | 11972 | 11940 |
| 10° | 12072 | 11703 | 11574 |
| 15° | 11950 | 11471 | 11251 |
| 20° | 11841 | 11170 | 11030 |
| 25° | 11610 | 10859 | 10617 |
| 30° | 11413 | 10511 | 10378 |
| 35° | 11161 | 10206 | 10028 |
| 40° | 10924 | 9879  | 9735  |
| 45° | 10667 | 9475  | 9396  |
| 50° | 10346 | 9097  | 9014  |
| 55° | 9981  | 8689  | 8632  |
| 60° | 9569  | 8227  | 8260  |
| 65° | 8943  | 7761  | 7832  |
| 70° | 8223  | 7234  | 7548  |
| 75° | 7157  | 6711  | 7248  |
| 80° | 5593  | 6306  | 7065  |
| 85° | 3533  | 6095  | 7112  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 365.0   | 2.9       |
| 10°-20°   | 1041.3  | 8.4       |
| 20°-30°   | 1566.8  | 12.6      |
| 30°-40°   | 1881.6  | 15.1      |
| 40°-50°   | 1959.4  | 15.7      |
| 50°-60°   | 1800.3  | 14.4      |
| 60°-70°   | 1445.9  | 11.6      |
| 70°-80°   | 985.8   | 7.9       |
| 80°-90°   | 560.3   | 4.5       |
| 90°-100°  | 313.8   | 2.5       |
| 100°-110° | 198.6   | 1.6       |
| 110°-120° | 135.5   | 1.1       |
| 120°-130° | 93.1    | 0.7       |
| 130°-140° | 59.2    | 0.5       |
| 140°-150° | 32.9    | 0.3       |
| 150°-160° | 15.0    | 0.1       |
| 160°-170° | 4.7     | 0.0       |
| 170°-180° | 0.6     | 0.0       |
| 0°-30°    | 2973.2  | 23.9      |
| 0°-40°    | 4854.8  | 39.0      |
| 0°-60°    | 8614.5  | 69.1      |
| 0°-90°    | 11606.5 | 93.1      |
| 90°-120°  | 647.9   | 5.2       |
| 90°-150°  | 833.2   | 6.7       |
| 90°-180°  | 854.0   | 6.9       |
| 0°-180°   | 12460.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3847 | 3847  | 3847 | 3847  | 3847 |      |
| 5°   | 3841 | 3847  | 3847 | 3852  | 3858 | 365  |
| 15°  | 3676 | 3670  | 3698 | 3709  | 3687 | 1037 |
| 25°  | 3362 | 3362  | 3406 | 3439  | 3422 | 1550 |
| 35°  | 2932 | 2948  | 3015 | 3059  | 3081 | 1834 |
| 45°  | 2430 | 2458  | 2541 | 2618  | 2656 | 1874 |
| 55°  | 1857 | 1912  | 2023 | 2116  | 2155 | 1658 |
| 65°  | 1240 | 1334  | 1477 | 1587  | 1637 | 1230 |
| 75°  | 623  | 755   | 953  | 1113  | 1174 | 660  |
| 85°  | 116  | 298   | 546  | 722   | 783  | 142  |
| 90°  | 6    | 176   | 402  | 568   | 634  | 7    |
| 95°  | 0    | 110   | 303  | 457   | 512  | 0    |
| 105° | 0    | 72    | 193  | 303   | 347  | 0    |
| 115° | 0    | 55    | 143  | 220   | 248  | 0    |
| 125° | 6    | 39    | 110  | 165   | 187  | 3    |
| 135° | 6    | 33    | 83   | 121   | 138  | 4    |
| 145° | 6    | 22    | 55   | 83    | 88   | 3    |
| 155° | 6    | 16    | 33   | 50    | 55   | 3    |
| 165° | 6    | 11    | 16   | 22    | 28   | 2    |
| 175° | 6    | 6     | 6    | 6     | 6    | 1    |
| 180° | 6    | 6     | 6    | 6     | 6    |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 3846.8 | 3846.8 | 3846.8 | 3846.8 | 3846.8 |
| 2.5°   | 3852.3 | 3846.8 | 3863.3 | 3857.8 | 3846.8 |
| 5°     | 3841.3 | 3846.8 | 3846.8 | 3852.3 | 3857.8 |
| 7.5°   | 3813.7 | 3802.7 | 3819.2 | 3835.8 | 3835.8 |
| 10°    | 3780.7 | 3769.6 | 3780.7 | 3791.7 | 3780.7 |
| 12.5°  | 3736.6 | 3714.5 | 3753.1 | 3753.1 | 3747.6 |
| 15°    | 3676.0 | 3670.4 | 3698.0 | 3709.0 | 3687.0 |
| 17.5°  | 3609.8 | 3626.4 | 3626.4 | 3648.4 | 3664.9 |
| 20°    | 3549.2 | 3538.2 | 3565.7 | 3582.3 | 3598.8 |
| 22.5°  | 3455.5 | 3450.0 | 3483.1 | 3510.6 | 3505.1 |
| 25°    | 3361.8 | 3361.8 | 3405.9 | 3439.0 | 3422.4 |
| 27.5°  | 3262.6 | 3262.6 | 3312.2 | 3345.3 | 3372.8 |
| 30°    | 3163.4 | 3174.4 | 3213.0 | 3257.1 | 3279.1 |
| 32.5°  | 3042.2 | 3069.7 | 3108.3 | 3168.9 | 3174.4 |
| 35°    | 2931.9 | 2948.5 | 3014.6 | 3058.7 | 3080.7 |
| 37.5°  | 2816.2 | 2821.7 | 2898.9 | 2959.5 | 2981.5 |
| 40°    | 2689.5 | 2700.5 | 2794.2 | 2849.3 | 2882.3 |
| 42.5°  | 2568.2 | 2579.2 | 2667.4 | 2739.1 | 2766.6 |
| 45°    | 2430.4 | 2458.0 | 2540.6 | 2617.8 | 2656.4 |
| 47.5°  | 2292.6 | 2331.2 | 2413.9 | 2502.1 | 2524.1 |
| 50°    | 2149.4 | 2187.9 | 2287.1 | 2358.8 | 2408.4 |
| 52.5°  | 2000.6 | 2050.2 | 2149.4 | 2243.0 | 2287.1 |
| 55°    | 1857.3 | 1912.4 | 2022.6 | 2116.3 | 2154.9 |
| 57.5°  | 1703.0 | 1769.1 | 1890.3 | 1989.5 | 2033.6 |
| 60°    | 1559.7 | 1614.8 | 1747.0 | 1851.8 | 1901.4 |
| 62.5°  | 1394.3 | 1466.0 | 1609.3 | 1725.0 | 1769.1 |
| 65°    | 1240.0 | 1333.7 | 1477.0 | 1587.2 | 1636.8 |
| 67.5°  | 1091.2 | 1184.9 | 1344.7 | 1460.5 | 1521.1 |
| 70°    | 931.4  | 1036.1 | 1206.9 | 1339.2 | 1405.3 |
| 72.5°  | 766.1  | 887.3  | 1080.2 | 1229.0 | 1284.1 |
| 75°    | 622.8  | 755.0  | 953.4  | 1113.3 | 1173.9 |
| 77.5°  | 479.5  | 617.3  | 837.7  | 1003.0 | 1069.2 |
| 80°    | 336.2  | 490.5  | 733.0  | 903.8  | 964.5  |
| 82.5°  | 220.4  | 391.3  | 633.8  | 804.6  | 870.8  |
| 85°    | 115.7  | 297.6  | 545.6  | 722.0  | 782.6  |
| 87.5°  | 38.6   | 226.0  | 468.4  | 644.8  | 705.4  |
| 90°    | 5.5    | 176.4  | 402.3  | 567.7  | 633.8  |
| 92.5°  | 0.0    | 137.8  | 347.2  | 512.5  | 573.2  |
| 95°    | 0.0    | 110.2  | 303.1  | 457.4  | 512.5  |
| 97.5°  | 0.0    | 93.7   | 270.0  | 407.8  | 468.4  |
| 100°   | 0.0    | 82.7   | 237.0  | 369.2  | 418.8  |
| 102.5° | 0.0    | 77.2   | 214.9  | 330.7  | 380.3  |
| 105°   | 0.0    | 71.6   | 192.9  | 303.1  | 347.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°   | 67.5° | 90°   |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 55.1  | 154.3 | 237.0 | 270.0 |
| 115°   | 0.0 | 55.1  | 143.3 | 220.4 | 248.0 |
| 117.5° | 0.0 | 49.6  | 137.8 | 203.9 | 231.5 |
| 120°   | 0.0 | 44.1  | 126.8 | 192.9 | 220.4 |
| 122.5° | 0.0 | 44.1  | 115.7 | 181.9 | 203.9 |
| 125°   | 5.5 | 38.6  | 110.2 | 165.3 | 187.4 |
| 127.5° | 5.5 | 38.6  | 104.7 | 154.3 | 176.4 |
| 130°   | 5.5 | 33.1  | 93.7  | 143.3 | 159.8 |
| 132.5° | 5.5 | 33.1  | 88.2  | 132.3 | 148.8 |
| 135°   | 5.5 | 33.1  | 82.7  | 121.2 | 137.8 |
| 137.5° | 5.5 | 27.6  | 71.6  | 110.2 | 126.8 |
| 140°   | 5.5 | 27.6  | 66.1  | 99.2  | 115.7 |
| 142.5° | 5.5 | 27.6  | 60.6  | 88.2  | 104.7 |
| 145°   | 5.5 | 22.0  | 55.1  | 82.7  | 88.2  |
| 147.5° | 5.5 | 22.0  | 49.6  | 71.6  | 82.7  |
| 150°   | 5.5 | 16.5  | 44.1  | 60.6  | 71.6  |
| 152.5° | 5.5 | 16.5  | 38.6  | 55.1  | 60.6  |
| 155°   | 5.5 | 16.5  | 33.1  | 49.6  | 55.1  |
| 157.5° | 5.5 | 16.5  | 27.6  | 44.1  | 44.1  |
| 160°   | 5.5 | 11.0  | 22.0  | 33.1  | 38.6  |
| 162.5° | 5.5 | 11.0  | 22.0  | 27.6  | 33.1  |
| 165°   | 5.5 | 11.0  | 16.5  | 22.0  | 27.6  |
| 167.5° | 5.5 | 5.5   | 11.0  | 16.5  | 22.0  |
| 170°   | 5.5 | 5.5   | 11.0  | 11.0  | 16.5  |
| 172.5° | 5.5 | 5.5   | 5.5   | 5.5   | 11.0  |
| 175°   | 5.5 | 5.5   | 5.5   | 5.5   | 5.5   |
| 177.5° | 5.5 | 5.5   | 5.5   | 0.0   | 0.0   |
| 180°   | 5.5 | 5.5   | 5.5   | 5.5   | 5.5   |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







|        |     |      |       |       |       |
|--------|-----|------|-------|-------|-------|
| 107.5° | 0.0 | 66.1 | 181.9 | 275.6 | 319.6 |
| 110°   | 0.0 | 60.6 | 165.3 | 253.5 | 292.1 |



(END OF REPORT)