

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: P709738

Luminaire Tested: **4AWS-L3C3-UNV-5000K-HI**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709738  
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: 4AWS-L3C3-UNV-5000K-HI  
Description: 4foot, Adapt Surface Wrap with, RD lens and HI lumen setting,  
5000K, 80CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

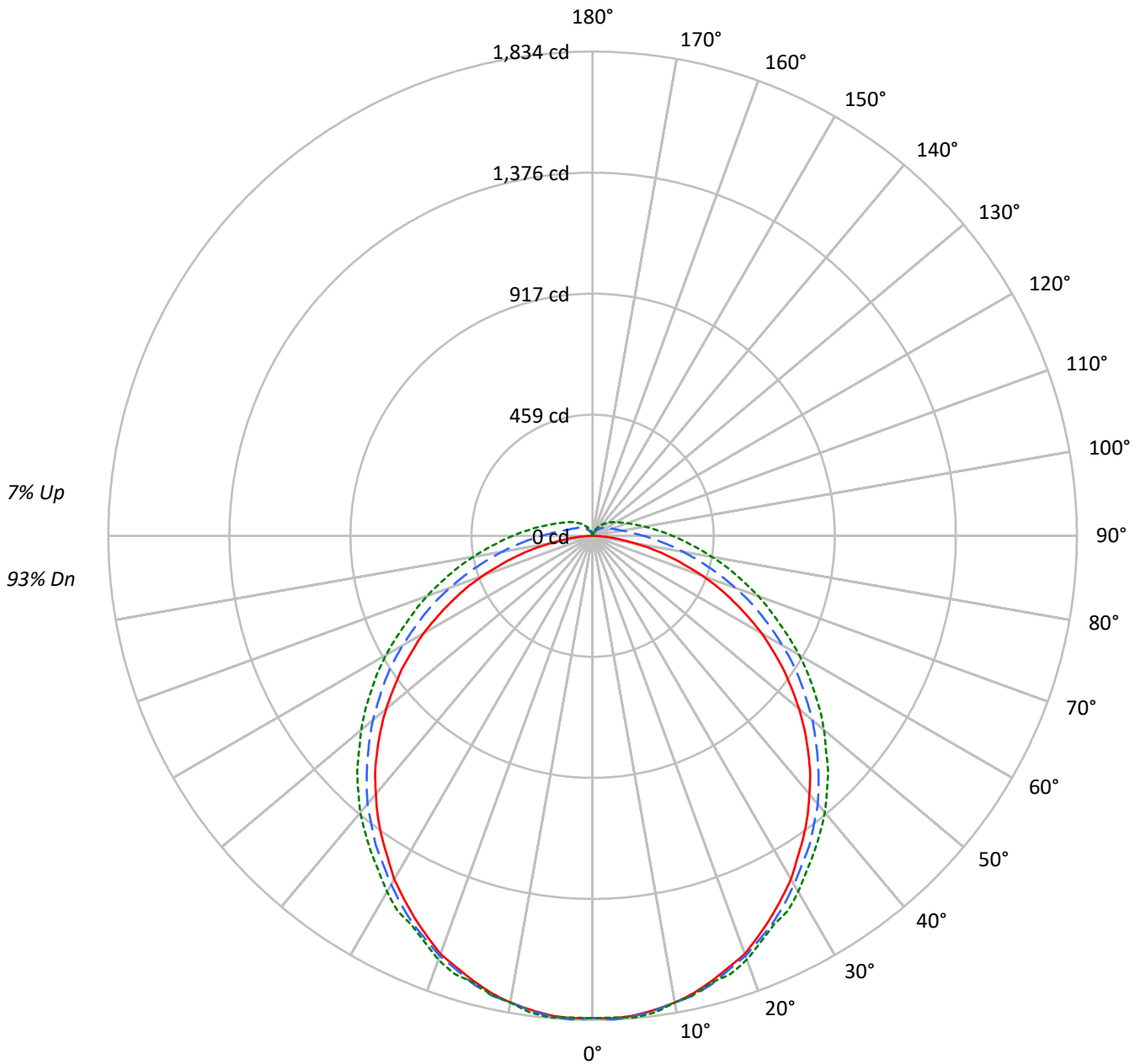
Lumens per Lamp: N/A  
Luminaire Lumens: 5916.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 49  
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

TEST NUMBER: P709738

CATALOG NUMBER: 4AWS-L3C3-UNV-5000K-HI

### Luminous Intensity Polar Plot





TEST NUMBER: P709738

CATALOG NUMBER: 4AWS-L3C3-UNV-5000K-HI

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 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   | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 96 | 96 | 96 | 93 |
| 1   | 106 | 101 | 96  | 92  | 102 | 98  | 93  | 89  | 92  | 89  | 85  | 87  | 84  | 81  | 82 | 80 | 78 | 78 | 78 | 78 | 75 |
| 2   | 96  | 87  | 80  | 74  | 93  | 85  | 78  | 72  | 80  | 74  | 70  | 76  | 71  | 67  | 71 | 68 | 64 | 64 | 64 | 64 | 62 |
| 3   | 87  | 76  | 68  | 61  | 84  | 74  | 66  | 60  | 70  | 63  | 58  | 66  | 61  | 56  | 63 | 58 | 54 | 54 | 54 | 54 | 52 |
| 4   | 80  | 67  | 58  | 51  | 77  | 65  | 57  | 51  | 62  | 55  | 49  | 59  | 53  | 48  | 56 | 51 | 46 | 46 | 46 | 46 | 44 |
| 5   | 73  | 60  | 51  | 44  | 71  | 58  | 50  | 43  | 56  | 48  | 42  | 53  | 46  | 41  | 50 | 45 | 40 | 40 | 40 | 40 | 38 |
| 6   | 68  | 54  | 45  | 38  | 65  | 53  | 44  | 38  | 50  | 43  | 37  | 48  | 41  | 36  | 46 | 40 | 35 | 35 | 35 | 35 | 33 |
| 7   | 63  | 49  | 40  | 34  | 60  | 48  | 39  | 33  | 46  | 38  | 33  | 43  | 37  | 32  | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 8   | 58  | 45  | 36  | 30  | 56  | 44  | 35  | 30  | 42  | 34  | 29  | 40  | 33  | 29  | 38 | 32 | 28 | 28 | 28 | 28 | 26 |
| 9   | 54  | 41  | 33  | 27  | 53  | 40  | 32  | 27  | 38  | 31  | 26  | 37  | 30  | 26  | 35 | 29 | 25 | 25 | 25 | 25 | 23 |
| 10  | 51  | 38  | 30  | 24  | 49  | 37  | 29  | 24  | 35  | 29  | 24  | 34  | 28  | 23  | 33 | 27 | 23 | 23 | 23 | 23 | 21 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11520 | 11520 | 11520 |
| 5°  | 11514 | 11358 | 11338 |
| 10° | 11432 | 11091 | 10991 |
| 15° | 11298 | 10861 | 10684 |
| 20° | 11179 | 10566 | 10474 |
| 25° | 10943 | 10262 | 10082 |
| 30° | 10738 | 9922  | 9855  |
| 35° | 10481 | 9623  | 9523  |
| 40° | 10236 | 9305  | 9244  |
| 45° | 9971  | 8912  | 8922  |
| 50° | 9642  | 8544  | 8559  |
| 55° | 9268  | 8147  | 8197  |
| 60° | 8845  | 7699  | 7844  |
| 65° | 8217  | 7245  | 7438  |
| 70° | 7489  | 6733  | 7168  |
| 75° | 6430  | 6219  | 6883  |
| 80° | 4898  | 5809  | 6708  |
| 85° | 2906  | 5564  | 6754  |



TEST NUMBER: P709738

CATALOG NUMBER: 4AWS-L3C3-UNV-5000K-HI

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.3  | 2.9       |
| 10°-20°   | 494.4  | 8.4       |
| 20°-30°   | 743.9  | 12.6      |
| 30°-40°   | 893.4  | 15.1      |
| 40°-50°   | 930.3  | 15.7      |
| 50°-60°   | 854.8  | 14.4      |
| 60°-70°   | 686.5  | 11.6      |
| 70°-80°   | 468.1  | 7.9       |
| 80°-90°   | 266.0  | 4.5       |
| 90°-100°  | 149.0  | 2.5       |
| 100°-110° | 94.3   | 1.6       |
| 110°-120° | 64.4   | 1.1       |
| 120°-130° | 44.2   | 0.7       |
| 130°-140° | 28.1   | 0.5       |
| 140°-150° | 15.7   | 0.3       |
| 150°-160° | 7.1    | 0.1       |
| 160°-170° | 2.3    | 0.0       |
| 170°-180° | 0.3    | 0.0       |
| 0°-30°    | 1411.7 | 23.9      |
| 0°-40°    | 2305.1 | 39.0      |
| 0°-60°    | 4090.1 | 69.1      |
| 0°-90°    | 5510.7 | 93.1      |
| 90°-120°  | 307.6  | 5.2       |
| 90°-150°  | 395.6  | 6.7       |
| 90°-180°  | 405.0  | 6.8       |
| 0°-180°   | 5916.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1826 | 1826  | 1826 | 1826  | 1826 |      |
| 5°   | 1824 | 1826  | 1826 | 1829  | 1832 | 173  |
| 15°  | 1745 | 1743  | 1756 | 1761  | 1751 | 493  |
| 25°  | 1596 | 1596  | 1617 | 1633  | 1625 | 736  |
| 35°  | 1392 | 1400  | 1431 | 1452  | 1463 | 871  |
| 45°  | 1154 | 1167  | 1206 | 1243  | 1261 | 890  |
| 55°  | 882  | 908   | 960  | 1005  | 1023 | 787  |
| 65°  | 589  | 633   | 701  | 754   | 777  | 584  |
| 75°  | 296  | 358   | 453  | 529   | 557  | 313  |
| 85°  | 55   | 141   | 259  | 343   | 372  | 68   |
| 90°  | 3    | 84    | 191  | 270   | 301  | 3    |
| 95°  | 0    | 52    | 144  | 217   | 243  | 0    |
| 105° | 0    | 34    | 92   | 144   | 165  | 0    |
| 115° | 0    | 26    | 68   | 105   | 118  | 0    |
| 125° | 3    | 18    | 52   | 78    | 89   | 1    |
| 135° | 3    | 16    | 39   | 58    | 65   | 2    |
| 145° | 3    | 10    | 26   | 39    | 42   | 2    |
| 155° | 3    | 8     | 16   | 24    | 26   | 1    |
| 165° | 3    | 5     | 8    | 10    | 13   | 1    |
| 175° | 3    | 3     | 3    | 3     | 3    | 0    |
| 180° | 3    | 3     | 3    | 3     | 3    |      |



TEST NUMBER: P709738

CATALOG NUMBER: 4AWS-L3C3-UNV-5000K-HI

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 1826.5 | 1826.5 | 1826.5 | 1826.5 | 1826.5 |
| 2.5°   | 1829.1 | 1826.5 | 1834.3 | 1831.7 | 1826.5 |
| 5°     | 1823.8 | 1826.5 | 1826.5 | 1829.1 | 1831.7 |
| 7.5°   | 1810.8 | 1805.5 | 1813.4 | 1821.2 | 1821.2 |
| 10°    | 1795.1 | 1789.8 | 1795.1 | 1800.3 | 1795.1 |
| 12.5°  | 1774.1 | 1763.7 | 1782.0 | 1782.0 | 1779.4 |
| 15°    | 1745.3 | 1742.7 | 1755.8 | 1761.0 | 1750.6 |
| 17.5°  | 1713.9 | 1721.8 | 1721.8 | 1732.3 | 1740.1 |
| 20°    | 1685.2 | 1679.9 | 1693.0 | 1700.9 | 1708.7 |
| 22.5°  | 1640.7 | 1638.1 | 1653.8 | 1666.8 | 1664.2 |
| 25°    | 1596.2 | 1596.2 | 1617.1 | 1632.8 | 1625.0 |
| 27.5°  | 1549.1 | 1549.1 | 1572.6 | 1588.3 | 1601.4 |
| 30°    | 1502.0 | 1507.2 | 1525.5 | 1546.5 | 1556.9 |
| 32.5°  | 1444.4 | 1457.5 | 1475.8 | 1504.6 | 1507.2 |
| 35°    | 1392.1 | 1399.9 | 1431.3 | 1452.3 | 1462.7 |
| 37.5°  | 1337.1 | 1339.8 | 1376.4 | 1405.2 | 1415.6 |
| 40°    | 1276.9 | 1282.2 | 1326.7 | 1352.8 | 1368.5 |
| 42.5°  | 1219.4 | 1224.6 | 1266.5 | 1300.5 | 1313.6 |
| 45°    | 1154.0 | 1167.0 | 1206.3 | 1242.9 | 1261.2 |
| 47.5°  | 1088.5 | 1106.9 | 1146.1 | 1188.0 | 1198.4 |
| 50°    | 1020.5 | 1038.8 | 1085.9 | 1119.9 | 1143.5 |
| 52.5°  | 949.9  | 973.4  | 1020.5 | 1065.0 | 1085.9 |
| 55°    | 881.8  | 908.0  | 960.3  | 1004.8 | 1023.1 |
| 57.5°  | 808.6  | 840.0  | 897.5  | 944.6  | 965.6  |
| 60°    | 740.5  | 766.7  | 829.5  | 879.2  | 902.8  |
| 62.5°  | 662.0  | 696.0  | 764.1  | 819.0  | 840.0  |
| 65°    | 588.8  | 633.2  | 701.3  | 753.6  | 777.2  |
| 67.5°  | 518.1  | 562.6  | 638.5  | 693.4  | 722.2  |
| 70°    | 442.2  | 491.9  | 573.1  | 635.9  | 667.3  |
| 72.5°  | 363.7  | 421.3  | 512.9  | 583.5  | 609.7  |
| 75°    | 295.7  | 358.5  | 452.7  | 528.6  | 557.4  |
| 77.5°  | 227.7  | 293.1  | 397.7  | 476.2  | 507.6  |
| 80°    | 159.6  | 232.9  | 348.0  | 429.1  | 457.9  |
| 82.5°  | 104.7  | 185.8  | 300.9  | 382.0  | 413.4  |
| 85°    | 55.0   | 141.3  | 259.1  | 342.8  | 371.6  |
| 87.5°  | 18.3   | 107.3  | 222.4  | 306.2  | 334.9  |
| 90°    | 2.6    | 83.7   | 191.0  | 269.5  | 300.9  |
| 92.5°  | 0.0    | 65.4   | 164.9  | 243.4  | 272.1  |
| 95°    | 0.0    | 52.3   | 143.9  | 217.2  | 243.4  |
| 97.5°  | 0.0    | 44.5   | 128.2  | 193.6  | 222.4  |
| 100°   | 0.0    | 39.3   | 112.5  | 175.3  | 198.9  |
| 102.5° | 0.0    | 36.6   | 102.1  | 157.0  | 180.6  |
| 105°   | 0.0    | 34.0   | 91.6   | 143.9  | 164.9  |



TEST NUMBER: P709738

CATALOG NUMBER: 4AWS-L3C3-UNV-5000K-HI

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°   |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 26.2  | 73.3 | 112.5 | 128.2 |
| 115°   | 0.0 | 26.2  | 68.0 | 104.7 | 117.8 |
| 117.5° | 0.0 | 23.6  | 65.4 | 96.8  | 109.9 |
| 120°   | 0.0 | 20.9  | 60.2 | 91.6  | 104.7 |
| 122.5° | 0.0 | 20.9  | 55.0 | 86.4  | 96.8  |
| 125°   | 2.6 | 18.3  | 52.3 | 78.5  | 89.0  |
| 127.5° | 2.6 | 18.3  | 49.7 | 73.3  | 83.7  |
| 130°   | 2.6 | 15.7  | 44.5 | 68.0  | 75.9  |
| 132.5° | 2.6 | 15.7  | 41.9 | 62.8  | 70.7  |
| 135°   | 2.6 | 15.7  | 39.3 | 57.6  | 65.4  |
| 137.5° | 2.6 | 13.1  | 34.0 | 52.3  | 60.2  |
| 140°   | 2.6 | 13.1  | 31.4 | 47.1  | 55.0  |
| 142.5° | 2.6 | 13.1  | 28.8 | 41.9  | 49.7  |
| 145°   | 2.6 | 10.5  | 26.2 | 39.3  | 41.9  |
| 147.5° | 2.6 | 10.5  | 23.6 | 34.0  | 39.3  |
| 150°   | 2.6 | 7.9   | 20.9 | 28.8  | 34.0  |
| 152.5° | 2.6 | 7.9   | 18.3 | 26.2  | 28.8  |
| 155°   | 2.6 | 7.9   | 15.7 | 23.6  | 26.2  |
| 157.5° | 2.6 | 7.9   | 13.1 | 20.9  | 20.9  |
| 160°   | 2.6 | 5.2   | 10.5 | 15.7  | 18.3  |
| 162.5° | 2.6 | 5.2   | 10.5 | 13.1  | 15.7  |
| 165°   | 2.6 | 5.2   | 7.9  | 10.5  | 13.1  |
| 167.5° | 2.6 | 2.6   | 5.2  | 7.9   | 10.5  |
| 170°   | 2.6 | 2.6   | 5.2  | 5.2   | 7.9   |
| 172.5° | 2.6 | 2.6   | 2.6  | 2.6   | 5.2   |
| 175°   | 2.6 | 2.6   | 2.6  | 2.6   | 2.6   |
| 177.5° | 2.6 | 2.6   | 2.6  | 0.0   | 0.0   |
| 180°   | 2.6 | 2.6   | 2.6  | 2.6   | 2.6   |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







|        |     |      |      |       |       |
|--------|-----|------|------|-------|-------|
| 107.5° | 0.0 | 31.4 | 86.4 | 130.8 | 151.8 |
| 110°   | 0.0 | 28.8 | 78.5 | 120.4 | 138.7 |



(END OF REPORT)