

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: P709861

Luminaire Tested: **4AWWS-L3C3-UNV-4000K-HI**

Issue Date: 9/26/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P709861  
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: 4AWS-L3C3-UNV-4000K-HI  
Description: 4foot, Wide Adapt Surface Wrap with, RD lens and HI lumen setting,  
4000K, 80CRI  
  
Light Source: -  
Ballast/Driver: -

**Summary**

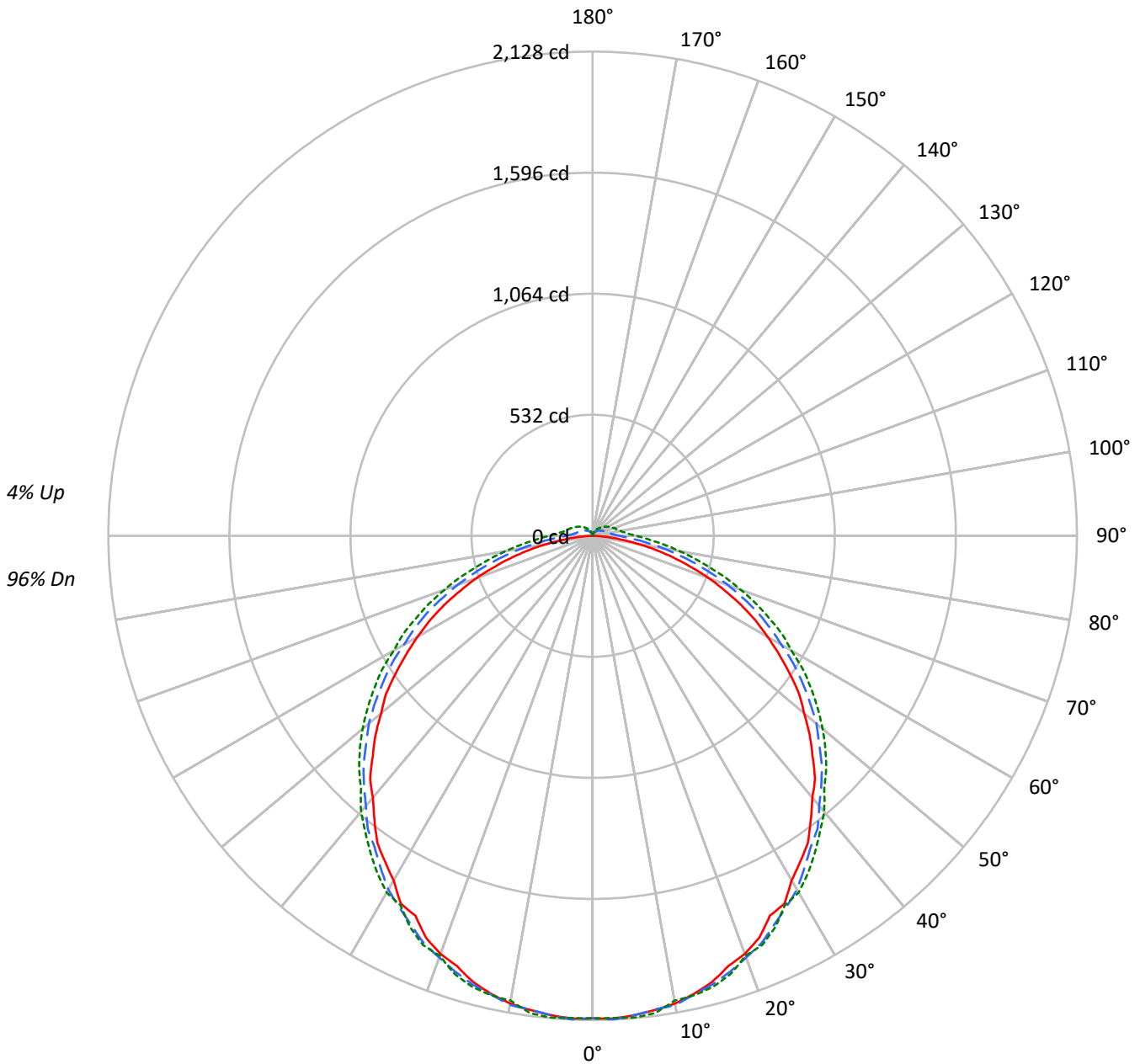
Lumens per Lamp: N/A  
Luminaire Lumens: 6543.0 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 3.71' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 47  
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 | 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°  | 7415 | 7415 | 7415 |
| 5°  | 7392 | 7308 | 7327 |
| 10° | 7349 | 7206 | 7107 |
| 15° | 7257 | 7050 | 7037 |
| 20° | 7155 | 6893 | 6799 |
| 25° | 6958 | 6724 | 6682 |
| 30° | 6878 | 6576 | 6536 |
| 35° | 6818 | 6341 | 6353 |
| 40° | 6601 | 6153 | 6164 |
| 45° | 6457 | 5977 | 5954 |
| 50° | 6254 | 5760 | 5766 |
| 55° | 6049 | 5474 | 5528 |
| 60° | 5747 | 5122 | 5204 |
| 65° | 5416 | 4807 | 4915 |
| 70° | 4925 | 4343 | 4522 |
| 75° | 4196 | 3770 | 4039 |
| 80° | 3162 | 3140 | 3606 |
| 85° | 1679 | 2511 | 3218 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 201.4  | 3.1       |
| 10°-20°   | 575.5  | 8.8       |
| 20°-30°   | 868.3  | 13.3      |
| 30°-40°   | 1047.9 | 16.0      |
| 40°-50°   | 1092.0 | 16.7      |
| 50°-60°   | 1000.9 | 15.3      |
| 60°-70°   | 785.0  | 12.0      |
| 70°-80°   | 485.3  | 7.4       |
| 80°-90°   | 205.8  | 3.1       |
| 90°-100°  | 90.1   | 1.4       |
| 100°-110° | 63.9   | 1.0       |
| 110°-120° | 48.0   | 0.7       |
| 120°-130° | 34.2   | 0.5       |
| 130°-140° | 22.6   | 0.3       |
| 140°-150° | 13.4   | 0.2       |
| 150°-160° | 6.4    | 0.1       |
| 160°-170° | 2.1    | 0.0       |
| 170°-180° | 0.3    | 0.0       |
| 0°-30°    | 1645.1 | 25.1      |
| 0°-40°    | 2693.0 | 41.2      |
| 0°-60°    | 4786.0 | 73.1      |
| 0°-90°    | 6262.0 | 95.7      |
| 90°-120°  | 202.0  | 3.1       |
| 90°-150°  | 272.2  | 4.2       |
| 90°-180°  | 281.0  | 4.3       |
| 0°-180°   | 6543.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 2121 | 2121  | 2121 | 2121  | 2121 |      |
| 5°   | 2115 | 2119  | 2115 | 2115  | 2126 | 201  |
| 15°  | 2030 | 2034  | 2040 | 2047  | 2051 | 572  |
| 25°  | 1843 | 1874  | 1887 | 1889  | 1898 | 857  |
| 35°  | 1649 | 1655  | 1670 | 1698  | 1702 | 1025 |
| 45°  | 1366 | 1383  | 1423 | 1445  | 1451 | 1055 |
| 55°  | 1058 | 1085  | 1126 | 1149  | 1172 | 945  |
| 65°  | 719  | 747   | 802  | 834   | 855  | 710  |
| 75°  | 364  | 402   | 464  | 515   | 528  | 386  |
| 85°  | 64   | 115   | 189  | 245   | 268  | 81   |
| 90°  | 4    | 49    | 117  | 168   | 189  | 4    |
| 95°  | 0    | 32    | 85   | 128   | 147  | 0    |
| 105° | 0    | 23    | 64   | 98    | 111  | 0    |
| 115° | 0    | 19    | 51   | 79    | 89   | 0    |
| 125° | 0    | 17    | 40   | 60    | 70   | 0    |
| 135° | 0    | 13    | 32   | 45    | 53   | 0    |
| 145° | 2    | 11    | 23   | 32    | 36   | 1    |
| 155° | 2    | 6     | 15   | 21    | 23   | 1    |
| 165° | 2    | 4     | 6    | 11    | 11   | 1    |
| 175° | 2    | 2     | 2    | 2     | 4    | 0    |
| 180° | 2    | 2     | 2    | 2     | 2    |      |



TEST NUMBER: P709861

CATALOG NUMBER: 4AWWS-L3C3-UNV-4000K-HI

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 2121.3 | 2121.3 | 2121.3 | 2121.3 | 2121.3 |
| 2.5°   | 2123.5 | 2132.0 | 2127.7 | 2123.5 | 2121.3 |
| 5°     | 2115.0 | 2119.2 | 2115.0 | 2115.0 | 2125.6 |
| 7.5°   | 2102.2 | 2108.6 | 2100.1 | 2112.8 | 2115.0 |
| 10°    | 2087.3 | 2095.8 | 2093.7 | 2097.9 | 2074.5 |
| 12.5°  | 2061.8 | 2072.4 | 2063.9 | 2074.5 | 2068.1 |
| 15°    | 2029.8 | 2034.1 | 2040.5 | 2046.9 | 2051.1 |
| 17.5°  | 1983.0 | 2002.2 | 2008.6 | 2014.9 | 2019.2 |
| 20°    | 1955.4 | 1966.0 | 1972.4 | 1970.3 | 1963.9 |
| 22.5°  | 1912.8 | 1919.2 | 1938.4 | 1934.1 | 1946.9 |
| 25°    | 1842.6 | 1874.5 | 1887.3 | 1889.4 | 1897.9 |
| 27.5°  | 1823.5 | 1825.6 | 1840.5 | 1853.2 | 1829.8 |
| 30°    | 1749.0 | 1774.5 | 1795.8 | 1802.2 | 1810.7 |
| 32.5°  | 1697.9 | 1719.2 | 1732.0 | 1755.4 | 1759.6 |
| 35°    | 1649.0 | 1655.4 | 1670.3 | 1697.9 | 1702.2 |
| 37.5°  | 1574.5 | 1593.7 | 1623.4 | 1638.3 | 1640.5 |
| 40°    | 1502.2 | 1525.6 | 1549.0 | 1566.0 | 1583.0 |
| 42.5°  | 1446.8 | 1459.6 | 1487.3 | 1508.6 | 1506.4 |
| 45°    | 1366.0 | 1383.0 | 1423.4 | 1444.7 | 1451.1 |
| 47.5°  | 1293.7 | 1319.2 | 1349.0 | 1380.9 | 1387.3 |
| 50°    | 1212.8 | 1240.5 | 1283.0 | 1306.4 | 1319.2 |
| 52.5°  | 1144.7 | 1161.7 | 1204.3 | 1227.7 | 1246.8 |
| 55°    | 1057.5 | 1085.1 | 1125.6 | 1149.0 | 1172.4 |
| 57.5°  | 972.4  | 1006.4 | 1046.8 | 1085.1 | 1097.9 |
| 60°    | 887.3  | 921.3  | 957.5  | 1000.0 | 1008.5 |
| 62.5°  | 806.4  | 842.6  | 880.9  | 923.4  | 940.5  |
| 65°    | 719.2  | 746.8  | 802.1  | 834.1  | 855.3  |
| 67.5°  | 627.7  | 661.7  | 714.9  | 751.1  | 776.6  |
| 70°    | 542.6  | 580.9  | 631.9  | 676.6  | 691.5  |
| 72.5°  | 448.9  | 495.8  | 544.7  | 591.5  | 612.8  |
| 75°    | 363.8  | 402.1  | 463.8  | 514.9  | 527.7  |
| 77.5°  | 283.0  | 319.2  | 385.1  | 436.2  | 455.3  |
| 80°    | 197.9  | 242.6  | 312.8  | 363.8  | 387.2  |
| 82.5°  | 125.5  | 172.3  | 244.7  | 300.0  | 325.5  |
| 85°    | 63.8   | 114.9  | 189.4  | 244.7  | 268.1  |
| 87.5°  | 21.3   | 72.3   | 144.7  | 202.1  | 225.5  |
| 90°    | 4.3    | 48.9   | 117.0  | 168.1  | 189.4  |
| 92.5°  | 0.0    | 36.2   | 97.9   | 144.7  | 163.8  |
| 95°    | 0.0    | 31.9   | 85.1   | 127.7  | 146.8  |
| 97.5°  | 0.0    | 29.8   | 78.7   | 117.0  | 131.9  |
| 100°   | 0.0    | 27.7   | 72.3   | 108.5  | 123.4  |
| 102.5° | 0.0    | 25.5   | 68.1   | 102.1  | 117.0  |
| 105°   | 0.0    | 23.4   | 63.8   | 97.9   | 110.6  |



TEST NUMBER: P709861

CATALOG NUMBER: 4AWWS-L3C3-UNV-4000K-HI

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45°  | 67.5° | 90°  |
|--------|-----|-------|------|-------|------|
| 112.5° | 0.0 | 21.3  | 55.3 | 80.9  | 93.6 |
| 115°   | 0.0 | 19.1  | 51.1 | 78.7  | 89.4 |
| 117.5° | 0.0 | 19.1  | 48.9 | 72.3  | 83.0 |
| 120°   | 0.0 | 17.0  | 44.7 | 68.1  | 78.7 |
| 122.5° | 0.0 | 17.0  | 42.6 | 66.0  | 74.5 |
| 125°   | 0.0 | 17.0  | 40.4 | 59.6  | 70.2 |
| 127.5° | 0.0 | 14.9  | 38.3 | 57.4  | 63.8 |
| 130°   | 0.0 | 14.9  | 36.2 | 53.2  | 59.6 |
| 132.5° | 0.0 | 12.8  | 34.0 | 48.9  | 55.3 |
| 135°   | 0.0 | 12.8  | 31.9 | 44.7  | 53.2 |
| 137.5° | 0.0 | 12.8  | 29.8 | 42.6  | 46.8 |
| 140°   | 0.0 | 10.6  | 27.7 | 38.3  | 44.7 |
| 142.5° | 2.1 | 10.6  | 23.4 | 36.2  | 40.4 |
| 145°   | 2.1 | 10.6  | 23.4 | 31.9  | 36.2 |
| 147.5° | 2.1 | 8.5   | 21.3 | 29.8  | 34.0 |
| 150°   | 2.1 | 8.5   | 19.1 | 25.5  | 29.8 |
| 152.5° | 2.1 | 6.4   | 17.0 | 23.4  | 25.5 |
| 155°   | 2.1 | 6.4   | 14.9 | 21.3  | 23.4 |
| 157.5° | 2.1 | 6.4   | 12.8 | 17.0  | 19.1 |
| 160°   | 2.1 | 4.3   | 10.6 | 14.9  | 17.0 |
| 162.5° | 2.1 | 4.3   | 8.5  | 12.8  | 14.9 |
| 165°   | 2.1 | 4.3   | 6.4  | 10.6  | 10.6 |
| 167.5° | 2.1 | 4.3   | 6.4  | 8.5   | 8.5  |
| 170°   | 2.1 | 2.1   | 4.3  | 6.4   | 6.4  |
| 172.5° | 2.1 | 2.1   | 4.3  | 4.3   | 4.3  |
| 175°   | 2.1 | 2.1   | 2.1  | 2.1   | 4.3  |
| 177.5° | 2.1 | 2.1   | 2.1  | 2.1   | 2.1  |
| 180°   | 2.1 | 2.1   | 2.1  | 2.1   | 2.1  |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







|        |     |      |      |      |       |
|--------|-----|------|------|------|-------|
| 107.5° | 0.0 | 23.4 | 61.7 | 91.5 | 104.3 |
| 110°   | 0.0 | 21.3 | 57.4 | 87.2 | 100.0 |



(END OF REPORT)