

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: P709749

Luminaire Tested: **4AWS-L3C39-CA-UNV-4000K-MID**

Issue Date: 9/26/2023



Test Information

Test Method: LM-79-08
Report Number: P709749
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-L3C39-CA-UNV-4000K-MID
Description: 4foot, Adapt Surface Wrap with, RD lens and MID lumen setting,
4000K, 90CRI

Light Source: -
Ballast/Driver: -

Summary

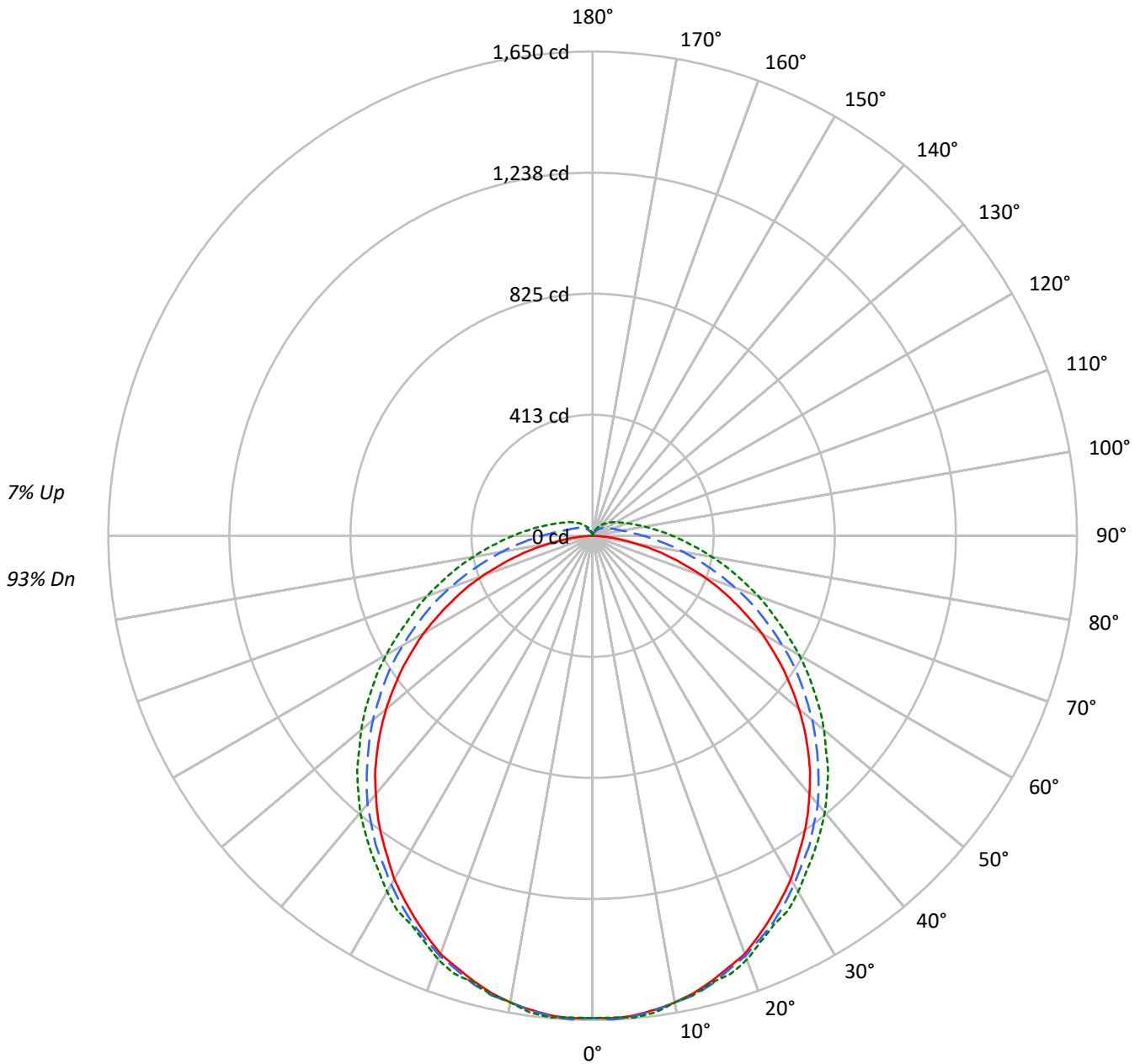
Lumens per Lamp: N/A
Luminaire Lumens: 5322.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')
CIE Type: Direct

Input Watts (W): 41
Input Voltage (V): NR
Input Current (A_{in}): 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: P709749

CATALOG NUMBER: 4AWS-L3C39-CA-UNV-4000K-MID

Luminous Intensity Polar Plot





TEST NUMBER: P709749

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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° | 10363 | 10363 | 10363 |
| 5° | 10358 | 10218 | 10200 |
| 10° | 10283 | 9977 | 9887 |
| 15° | 10164 | 9771 | 9611 |
| 20° | 10057 | 9505 | 9422 |
| 25° | 9844 | 9232 | 9070 |
| 30° | 9660 | 8927 | 8865 |
| 35° | 9429 | 8657 | 8567 |
| 40° | 9208 | 8370 | 8316 |
| 45° | 8969 | 8017 | 8026 |
| 50° | 8673 | 7686 | 7700 |
| 55° | 8338 | 7329 | 7374 |
| 60° | 7958 | 6926 | 7056 |
| 65° | 7391 | 6518 | 6691 |
| 70° | 6737 | 6056 | 6448 |
| 75° | 5784 | 5594 | 6191 |
| 80° | 4407 | 5227 | 6034 |
| 85° | 2610 | 5004 | 6076 |



TEST NUMBER: P709749

CATALOG NUMBER: 4AWS-L3C39-CA-UNV-4000K-MID

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.9 | 2.9 |
| 10°-20° | 444.8 | 8.4 |
| 20°-30° | 669.2 | 12.6 |
| 30°-40° | 803.7 | 15.1 |
| 40°-50° | 836.9 | 15.7 |
| 50°-60° | 769.0 | 14.4 |
| 60°-70° | 617.6 | 11.6 |
| 70°-80° | 421.0 | 7.9 |
| 80°-90° | 239.3 | 4.5 |
| 90°-100° | 134.0 | 2.5 |
| 100°-110° | 84.8 | 1.6 |
| 110°-120° | 57.9 | 1.1 |
| 120°-130° | 39.8 | 0.7 |
| 130°-140° | 25.3 | 0.5 |
| 140°-150° | 14.1 | 0.3 |
| 150°-160° | 6.4 | 0.1 |
| 160°-170° | 2.0 | 0.0 |
| 170°-180° | 0.3 | 0.0 |
| 0°-30° | 1269.9 | 23.9 |
| 0°-40° | 2073.6 | 39.0 |
| 0°-60° | 3679.5 | 69.1 |
| 0°-90° | 4957.4 | 93.1 |
| 90°-120° | 276.7 | 5.2 |
| 90°-150° | 355.9 | 6.7 |
| 90°-180° | 365.0 | 6.9 |
| 0°-180° | 5322.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1643 | 1643 | 1643 | 1643 | 1643 | |
| 5° | 1641 | 1643 | 1643 | 1645 | 1648 | 156 |
| 15° | 1570 | 1568 | 1580 | 1584 | 1575 | 443 |
| 25° | 1436 | 1436 | 1455 | 1469 | 1462 | 662 |
| 35° | 1252 | 1259 | 1288 | 1306 | 1316 | 784 |
| 45° | 1038 | 1050 | 1085 | 1118 | 1135 | 801 |
| 55° | 793 | 817 | 864 | 904 | 920 | 708 |
| 65° | 530 | 570 | 631 | 678 | 699 | 525 |
| 75° | 266 | 322 | 407 | 476 | 501 | 282 |
| 85° | 49 | 127 | 233 | 308 | 334 | 61 |
| 90° | 2 | 75 | 172 | 242 | 271 | 3 |
| 95° | 0 | 47 | 130 | 195 | 219 | 0 |
| 105° | 0 | 31 | 82 | 130 | 148 | 0 |
| 115° | 0 | 24 | 61 | 94 | 106 | 0 |
| 125° | 2 | 16 | 47 | 71 | 80 | 1 |
| 135° | 2 | 14 | 35 | 52 | 59 | 2 |
| 145° | 2 | 9 | 24 | 35 | 38 | 2 |
| 155° | 2 | 7 | 14 | 21 | 24 | 1 |
| 165° | 2 | 5 | 7 | 9 | 12 | 1 |
| 175° | 2 | 2 | 2 | 2 | 2 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P709749

CATALOG NUMBER: 4AWS-L3C39-CA-UNV-4000K-MID

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1643.1 | 1643.1 | 1643.1 | 1643.1 | 1643.1 |
| 2.5° | 1645.4 | 1643.1 | 1650.1 | 1647.8 | 1643.1 |
| 5° | 1640.7 | 1643.1 | 1643.1 | 1645.4 | 1647.8 |
| 7.5° | 1628.9 | 1624.2 | 1631.3 | 1638.4 | 1638.4 |
| 10° | 1614.8 | 1610.1 | 1614.8 | 1619.5 | 1614.8 |
| 12.5° | 1596.0 | 1586.6 | 1603.1 | 1603.1 | 1600.7 |
| 15° | 1570.1 | 1567.7 | 1579.5 | 1584.2 | 1574.8 |
| 17.5° | 1541.8 | 1548.9 | 1548.9 | 1558.3 | 1565.4 |
| 20° | 1516.0 | 1511.2 | 1523.0 | 1530.1 | 1537.1 |
| 22.5° | 1475.9 | 1473.6 | 1487.7 | 1499.5 | 1497.1 |
| 25° | 1435.9 | 1435.9 | 1454.8 | 1468.9 | 1461.8 |
| 27.5° | 1393.5 | 1393.5 | 1414.7 | 1428.9 | 1440.6 |
| 30° | 1351.2 | 1355.9 | 1372.4 | 1391.2 | 1400.6 |
| 32.5° | 1299.4 | 1311.2 | 1327.6 | 1353.5 | 1355.9 |
| 35° | 1252.3 | 1259.4 | 1287.6 | 1306.5 | 1315.9 |
| 37.5° | 1202.9 | 1205.2 | 1238.2 | 1264.1 | 1273.5 |
| 40° | 1148.7 | 1153.4 | 1193.5 | 1217.0 | 1231.1 |
| 42.5° | 1096.9 | 1101.7 | 1139.3 | 1169.9 | 1181.7 |
| 45° | 1038.1 | 1049.9 | 1085.2 | 1118.1 | 1134.6 |
| 47.5° | 979.3 | 995.7 | 1031.0 | 1068.7 | 1078.1 |
| 50° | 918.0 | 934.5 | 976.9 | 1007.5 | 1028.7 |
| 52.5° | 854.5 | 875.7 | 918.0 | 958.1 | 976.9 |
| 55° | 793.3 | 816.8 | 863.9 | 903.9 | 920.4 |
| 57.5° | 727.4 | 755.6 | 807.4 | 849.8 | 868.6 |
| 60° | 666.2 | 689.7 | 746.2 | 790.9 | 812.1 |
| 62.5° | 595.6 | 626.2 | 687.4 | 736.8 | 755.6 |
| 65° | 529.6 | 569.7 | 630.9 | 677.9 | 699.1 |
| 67.5° | 466.1 | 506.1 | 574.4 | 623.8 | 649.7 |
| 70° | 397.8 | 442.5 | 515.5 | 572.0 | 600.3 |
| 72.5° | 327.2 | 379.0 | 461.4 | 524.9 | 548.5 |
| 75° | 266.0 | 322.5 | 407.2 | 475.5 | 501.4 |
| 77.5° | 204.8 | 263.6 | 357.8 | 428.4 | 456.7 |
| 80° | 143.6 | 209.5 | 313.1 | 386.1 | 411.9 |
| 82.5° | 94.2 | 167.1 | 270.7 | 343.7 | 371.9 |
| 85° | 49.4 | 127.1 | 233.0 | 308.4 | 334.3 |
| 87.5° | 16.5 | 96.5 | 200.1 | 275.4 | 301.3 |
| 90° | 2.4 | 75.3 | 171.8 | 242.5 | 270.7 |
| 92.5° | 0.0 | 58.8 | 148.3 | 218.9 | 244.8 |
| 95° | 0.0 | 47.1 | 129.5 | 195.4 | 218.9 |
| 97.5° | 0.0 | 40.0 | 115.3 | 174.2 | 200.1 |
| 100° | 0.0 | 35.3 | 101.2 | 157.7 | 178.9 |
| 102.5° | 0.0 | 33.0 | 91.8 | 141.2 | 162.4 |
| 105° | 0.0 | 30.6 | 82.4 | 129.5 | 148.3 |



TEST NUMBER: P709749

CATALOG NUMBER: 4AWS-L3C39-CA-UNV-4000K-MID

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 23.5 | 65.9 | 101.2 | 115.3 |
| 115° | 0.0 | 23.5 | 61.2 | 94.2 | 105.9 |
| 117.5° | 0.0 | 21.2 | 58.8 | 87.1 | 98.9 |
| 120° | 0.0 | 18.8 | 54.1 | 82.4 | 94.2 |
| 122.5° | 0.0 | 18.8 | 49.4 | 77.7 | 87.1 |
| 125° | 2.4 | 16.5 | 47.1 | 70.6 | 80.0 |
| 127.5° | 2.4 | 16.5 | 44.7 | 65.9 | 75.3 |
| 130° | 2.4 | 14.1 | 40.0 | 61.2 | 68.3 |
| 132.5° | 2.4 | 14.1 | 37.7 | 56.5 | 63.6 |
| 135° | 2.4 | 14.1 | 35.3 | 51.8 | 58.8 |
| 137.5° | 2.4 | 11.8 | 30.6 | 47.1 | 54.1 |
| 140° | 2.4 | 11.8 | 28.2 | 42.4 | 49.4 |
| 142.5° | 2.4 | 11.8 | 25.9 | 37.7 | 44.7 |
| 145° | 2.4 | 9.4 | 23.5 | 35.3 | 37.7 |
| 147.5° | 2.4 | 9.4 | 21.2 | 30.6 | 35.3 |
| 150° | 2.4 | 7.1 | 18.8 | 25.9 | 30.6 |
| 152.5° | 2.4 | 7.1 | 16.5 | 23.5 | 25.9 |
| 155° | 2.4 | 7.1 | 14.1 | 21.2 | 23.5 |
| 157.5° | 2.4 | 7.1 | 11.8 | 18.8 | 18.8 |
| 160° | 2.4 | 4.7 | 9.4 | 14.1 | 16.5 |
| 162.5° | 2.4 | 4.7 | 9.4 | 11.8 | 14.1 |
| 165° | 2.4 | 4.7 | 7.1 | 9.4 | 11.8 |
| 167.5° | 2.4 | 2.4 | 4.7 | 7.1 | 9.4 |
| 170° | 2.4 | 2.4 | 4.7 | 4.7 | 7.1 |
| 172.5° | 2.4 | 2.4 | 2.4 | 2.4 | 4.7 |
| 175° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 177.5° | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 |
| 180° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







| | | | | | |
|--------|-----|------|------|-------|-------|
| 107.5° | 0.0 | 28.2 | 77.7 | 117.7 | 136.5 |
| 110° | 0.0 | 25.9 | 70.6 | 108.3 | 124.8 |



(END OF REPORT)