

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: P709750

Luminaire Tested: **4AWS-L3C39-SQR-UNV-3500K-HI**

Issue Date: 9/26/2023

Test Information

Test Method: LM-79-08
Report Number: P709750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-090-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/26/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4AWS-L3C39-SQR-UNV-3500K-HI
Description: 4foot, Adapt Surface Wrap with, SQR lens and HI lumen setting,
3500K, 90CRI

Light Source: -
Ballast/Driver: -

Summary

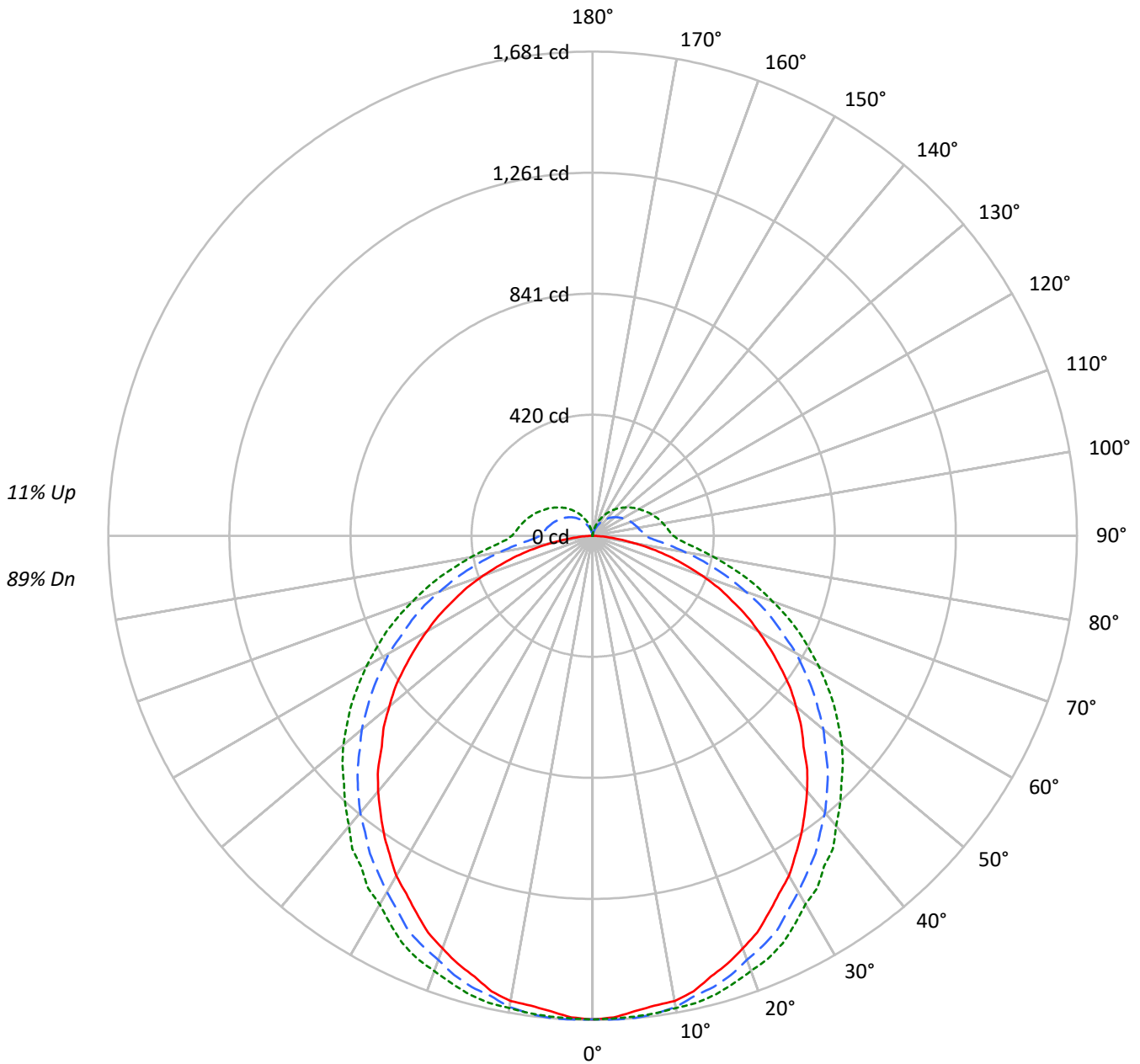
Lumens per Lamp: N/A
Luminaire Lumens: 5860.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.46' x L: 3.71' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 49
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: P709750

CATALOG NUMBER: 4AWS-L3C39-SQR-UNV-3500K-HI

Luminous Intensity Polar Plot





TEST NUMBER: P709750

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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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 | | | | 89 |
| 1 | 105 | 100 | 95 | 91 | 101 | 96 | 92 | 88 | 90 | 87 | 83 | 84 | 82 | 79 | 79 | 77 | 75 | 72 | | | | 72 |
| 2 | 95 | 86 | 79 | 73 | 91 | 83 | 77 | 71 | 78 | 73 | 68 | 73 | 69 | 65 | 69 | 65 | 62 | 59 | | | | 59 |
| 3 | 86 | 75 | 67 | 60 | 83 | 73 | 65 | 59 | 68 | 62 | 56 | 64 | 59 | 54 | 60 | 56 | 52 | 49 | | | | 49 |
| 4 | 79 | 67 | 57 | 51 | 76 | 64 | 56 | 50 | 61 | 53 | 48 | 57 | 51 | 46 | 54 | 48 | 44 | 42 | | | | 42 |
| 5 | 72 | 59 | 50 | 43 | 69 | 57 | 49 | 43 | 54 | 47 | 41 | 51 | 45 | 40 | 48 | 43 | 38 | 36 | | | | 36 |
| 6 | 67 | 53 | 44 | 38 | 64 | 52 | 43 | 37 | 49 | 41 | 36 | 46 | 40 | 35 | 43 | 38 | 34 | 31 | | | | 31 |
| 7 | 62 | 48 | 39 | 33 | 59 | 47 | 38 | 33 | 44 | 37 | 32 | 42 | 35 | 31 | 40 | 34 | 30 | 27 | | | | 27 |
| 8 | 57 | 44 | 35 | 29 | 55 | 43 | 35 | 29 | 40 | 33 | 28 | 38 | 32 | 27 | 36 | 31 | 27 | 24 | | | | 24 |
| 9 | 54 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 37 | 30 | 25 | 35 | 29 | 25 | 34 | 28 | 24 | 22 | | | | 22 |
| 10 | 50 | 37 | 29 | 24 | 48 | 36 | 29 | 23 | 34 | 28 | 23 | 33 | 27 | 22 | 31 | 26 | 22 | 20 | | | | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10590 | 10590 | 10590 |
| 5° | 10466 | 10453 | 10372 |
| 10° | 10443 | 10265 | 10194 |
| 15° | 10258 | 10034 | 10063 |
| 20° | 10109 | 9778 | 9856 |
| 25° | 9909 | 9602 | 9688 |
| 30° | 9747 | 9285 | 9352 |
| 35° | 9512 | 9058 | 9120 |
| 40° | 9283 | 8798 | 8883 |
| 45° | 8943 | 8529 | 8634 |
| 50° | 8700 | 8228 | 8455 |
| 55° | 8364 | 7903 | 8192 |
| 60° | 7951 | 7569 | 7876 |
| 65° | 7446 | 7153 | 7565 |
| 70° | 6830 | 6625 | 7131 |
| 75° | 5936 | 6056 | 6742 |
| 80° | 4490 | 5422 | 6274 |
| 85° | 2547 | 4982 | 6032 |



TEST NUMBER: P709750

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 159.3 | 2.7 |
| 10°-20° | 456.8 | 7.8 |
| 20°-30° | 692.8 | 11.8 |
| 30°-40° | 838.6 | 14.3 |
| 40°-50° | 882.8 | 15.1 |
| 50°-60° | 822.3 | 14.0 |
| 60°-70° | 670.8 | 11.4 |
| 70°-80° | 452.2 | 7.7 |
| 80°-90° | 243.0 | 4.1 |
| 90°-100° | 168.5 | 2.9 |
| 100°-110° | 144.2 | 2.5 |
| 110°-120° | 117.6 | 2.0 |
| 120°-130° | 89.4 | 1.5 |
| 130°-140° | 61.9 | 1.1 |
| 140°-150° | 36.9 | 0.6 |
| 150°-160° | 17.2 | 0.3 |
| 160°-170° | 5.1 | 0.1 |
| 170°-180° | 0.5 | 0.0 |
| 0°-30° | 1309.0 | 22.3 |
| 0°-40° | 2147.5 | 36.6 |
| 0°-60° | 3852.7 | 65.7 |
| 0°-90° | 5218.7 | 89.1 |
| 90°-120° | 430.3 | 7.3 |
| 90°-150° | 618.5 | 10.6 |
| 90°-180° | 641.0 | 10.9 |
| 0°-180° | 5860.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1679 | 1679 | 1679 | 1679 | 1679 | |
| 5° | 1658 | 1676 | 1681 | 1681 | 1676 | 158 |
| 15° | 1585 | 1602 | 1622 | 1636 | 1649 | 448 |
| 25° | 1445 | 1474 | 1513 | 1528 | 1561 | 667 |
| 35° | 1263 | 1294 | 1347 | 1386 | 1401 | 790 |
| 45° | 1035 | 1085 | 1154 | 1204 | 1220 | 803 |
| 55° | 796 | 853 | 932 | 990 | 1022 | 712 |
| 65° | 534 | 600 | 692 | 760 | 790 | 530 |
| 75° | 273 | 344 | 441 | 512 | 546 | 288 |
| 85° | 48 | 132 | 232 | 305 | 332 | 60 |
| 90° | 2 | 84 | 182 | 253 | 280 | 3 |
| 95° | 0 | 77 | 171 | 237 | 262 | 0 |
| 105° | 0 | 68 | 150 | 211 | 234 | 0 |
| 115° | 2 | 59 | 130 | 182 | 202 | 2 |
| 125° | 2 | 48 | 111 | 154 | 170 | 2 |
| 135° | 2 | 38 | 89 | 123 | 137 | 1 |
| 145° | 4 | 25 | 64 | 91 | 102 | 2 |
| 155° | 4 | 14 | 38 | 59 | 64 | 2 |
| 165° | 4 | 7 | 16 | 25 | 30 | 1 |
| 175° | 4 | 4 | 4 | 4 | 4 | 0 |
| 180° | 2 | 2 | 2 | 2 | 2 | |



TEST NUMBER: P709750

CATALOG NUMBER: 4AWS-L3C39-SQR-UNV-3500K-HI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1679.1 | 1679.1 | 1679.1 | 1679.1 | 1679.1 |
| 2.5° | 1673.8 | 1675.6 | 1680.9 | 1686.3 | 1677.4 |
| 5° | 1657.7 | 1675.6 | 1680.9 | 1680.9 | 1675.6 |
| 7.5° | 1645.2 | 1661.3 | 1673.8 | 1670.2 | 1672.0 |
| 10° | 1639.9 | 1648.8 | 1661.3 | 1670.2 | 1664.9 |
| 12.5° | 1620.2 | 1625.6 | 1636.3 | 1650.6 | 1661.3 |
| 15° | 1584.6 | 1602.4 | 1622.0 | 1636.3 | 1648.8 |
| 17.5° | 1557.8 | 1573.9 | 1598.8 | 1611.3 | 1629.2 |
| 20° | 1523.9 | 1541.7 | 1566.7 | 1593.5 | 1607.8 |
| 22.5° | 1491.8 | 1507.8 | 1541.7 | 1559.6 | 1589.9 |
| 25° | 1445.4 | 1473.9 | 1513.2 | 1527.5 | 1561.4 |
| 27.5° | 1400.8 | 1432.9 | 1466.8 | 1506.0 | 1520.3 |
| 30° | 1363.3 | 1386.5 | 1427.5 | 1461.4 | 1477.5 |
| 32.5° | 1311.5 | 1343.7 | 1386.5 | 1427.5 | 1450.7 |
| 35° | 1263.4 | 1293.7 | 1347.2 | 1386.5 | 1400.8 |
| 37.5° | 1209.8 | 1243.7 | 1297.3 | 1343.7 | 1370.4 |
| 40° | 1158.1 | 1195.6 | 1254.4 | 1299.1 | 1315.1 |
| 42.5° | 1102.8 | 1142.0 | 1204.5 | 1256.2 | 1270.5 |
| 45° | 1035.0 | 1084.9 | 1154.5 | 1204.5 | 1220.5 |
| 47.5° | 983.2 | 1029.6 | 1095.6 | 1154.5 | 1177.7 |
| 50° | 920.8 | 972.5 | 1045.7 | 1099.2 | 1129.5 |
| 52.5° | 863.7 | 911.8 | 986.8 | 1038.5 | 1074.2 |
| 55° | 795.8 | 853.0 | 931.5 | 990.4 | 1022.5 |
| 57.5° | 729.8 | 788.7 | 870.8 | 931.5 | 963.6 |
| 60° | 665.6 | 726.3 | 815.5 | 876.1 | 906.5 |
| 62.5° | 603.1 | 667.4 | 747.7 | 820.8 | 845.8 |
| 65° | 533.5 | 599.6 | 692.4 | 760.2 | 790.5 |
| 67.5° | 472.9 | 531.8 | 631.7 | 694.1 | 728.0 |
| 70° | 403.3 | 472.9 | 563.9 | 635.3 | 663.8 |
| 72.5° | 335.5 | 408.6 | 503.2 | 576.4 | 604.9 |
| 75° | 273.0 | 344.4 | 440.8 | 512.1 | 546.0 |
| 77.5° | 210.6 | 283.7 | 381.9 | 455.0 | 483.6 |
| 80° | 146.3 | 226.6 | 324.8 | 397.9 | 428.3 |
| 82.5° | 92.8 | 174.9 | 276.6 | 346.2 | 374.7 |
| 85° | 48.2 | 132.0 | 232.0 | 305.1 | 331.9 |
| 87.5° | 16.1 | 99.9 | 199.9 | 271.2 | 298.0 |
| 90° | 1.8 | 83.9 | 182.0 | 253.4 | 280.2 |
| 92.5° | 0.0 | 80.3 | 176.7 | 244.5 | 269.4 |
| 95° | 0.0 | 76.7 | 171.3 | 237.3 | 262.3 |
| 97.5° | 0.0 | 74.9 | 164.2 | 230.2 | 255.2 |
| 100° | 0.0 | 71.4 | 160.6 | 224.8 | 248.0 |
| 102.5° | 0.0 | 69.6 | 155.2 | 217.7 | 240.9 |
| 105° | 0.0 | 67.8 | 149.9 | 210.6 | 233.8 |



TEST NUMBER: P709750

CATALOG NUMBER: 4AWS-L3C39-SQR-UNV-3500K-HI

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 1.8 | 60.7 | 135.6 | 190.9 | 210.6 |
| 115° | 1.8 | 58.9 | 130.3 | 182.0 | 201.6 |
| 117.5° | 1.8 | 55.3 | 126.7 | 174.9 | 192.7 |
| 120° | 1.8 | 53.5 | 121.3 | 169.5 | 185.6 |
| 122.5° | 1.8 | 51.7 | 116.0 | 160.6 | 178.4 |
| 125° | 1.8 | 48.2 | 110.6 | 153.5 | 169.5 |
| 127.5° | 1.8 | 44.6 | 105.3 | 146.3 | 160.6 |
| 130° | 1.8 | 42.8 | 99.9 | 137.4 | 153.5 |
| 132.5° | 1.8 | 39.3 | 94.6 | 132.0 | 144.5 |
| 135° | 1.8 | 37.5 | 89.2 | 123.1 | 137.4 |
| 137.5° | 1.8 | 33.9 | 83.9 | 116.0 | 128.5 |
| 140° | 1.8 | 30.3 | 76.7 | 108.8 | 119.6 |
| 142.5° | 1.8 | 28.6 | 71.4 | 99.9 | 110.6 |
| 145° | 3.6 | 25.0 | 64.2 | 91.0 | 101.7 |
| 147.5° | 3.6 | 23.2 | 57.1 | 83.9 | 92.8 |
| 150° | 3.6 | 19.6 | 50.0 | 74.9 | 83.9 |
| 152.5° | 3.6 | 17.8 | 44.6 | 66.0 | 74.9 |
| 155° | 3.6 | 14.3 | 37.5 | 58.9 | 64.2 |
| 157.5° | 3.6 | 12.5 | 32.1 | 50.0 | 57.1 |
| 160° | 3.6 | 10.7 | 26.8 | 42.8 | 48.2 |
| 162.5° | 3.6 | 8.9 | 21.4 | 33.9 | 39.3 |
| 165° | 3.6 | 7.1 | 16.1 | 25.0 | 30.3 |
| 167.5° | 3.6 | 5.4 | 12.5 | 17.8 | 23.2 |
| 170° | 3.6 | 5.4 | 8.9 | 12.5 | 17.8 |
| 172.5° | 3.6 | 3.6 | 5.4 | 7.1 | 10.7 |
| 175° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 177.5° | 3.6 | 3.6 | 1.8 | 1.8 | 0.0 |
| 180° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







| | | | | | |
|--------|-----|------|-------|-------|-------|
| 107.5° | 0.0 | 64.2 | 146.3 | 203.4 | 224.8 |
| 110° | 1.8 | 62.5 | 141.0 | 196.3 | 217.7 |



(END OF REPORT)