

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: P709886

Luminaire Tested: **8AWWS-L3C3-SQR-UNV-3500K-LOW**

Issue Date: 9/26/2023



Test Information

Test Method: LM-79-08
Report Number: P709886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-090-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/26/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8AWWS-L3C3-SQR-UNV-3500K-LOW
Description: 8foot, Wide Adapt Surface Wrap with, SQR lens and LOW lumen setting, 3500K, 80CRI

Light Source: -
Ballast/Driver: -

Summary

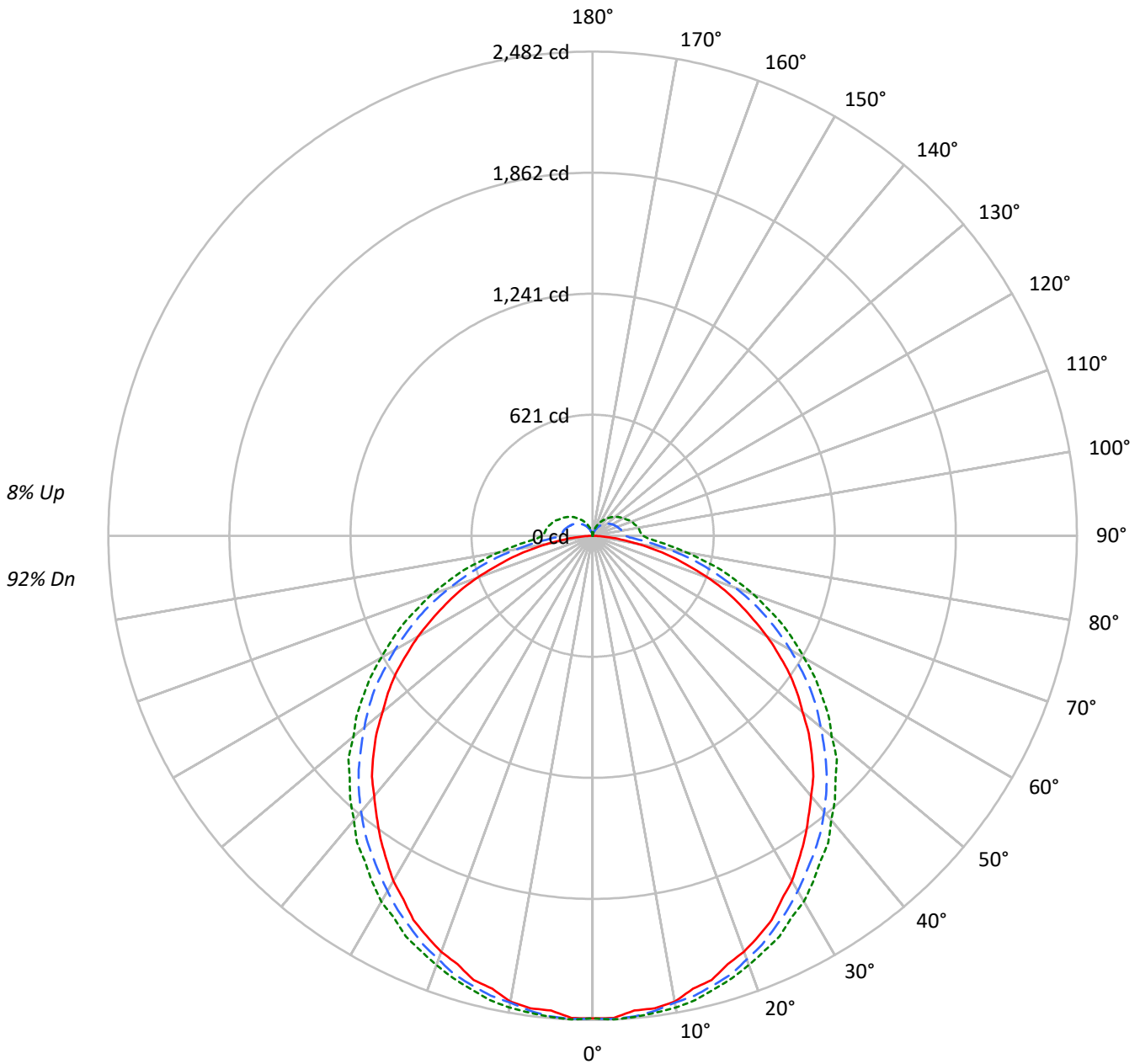
Lumens per Lamp: N/A
Luminaire Lumens: 8107.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 7.42' x H: 0.17')
CIE Type: Direct

Input Watts (W): 57
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

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CATALOG NUMBER: 8AWWS-L3C3-SQR-UNV-3500K-LOW

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 | 95 | 95 | 95 | 92 | | | | | | | | | | | | | | | | | | | |
| 1 | 106 | 101 | 97 | 92 | 103 | 98 | 94 | 90 | 92 | 89 | 86 | 87 | 85 | 82 | 82 | 80 | 78 | 76 | | | | | | | | | | | | | | | | | | | |
| 2 | 96 | 88 | 81 | 75 | 93 | 85 | 79 | 73 | 80 | 75 | 70 | 76 | 71 | 68 | 72 | 68 | 65 | 62 | | | | | | | | | | | | | | | | | | | |
| 3 | 88 | 77 | 68 | 62 | 84 | 75 | 67 | 61 | 70 | 64 | 59 | 67 | 61 | 57 | 63 | 59 | 55 | 52 | | | | | | | | | | | | | | | | | | | |
| 4 | 80 | 68 | 59 | 52 | 77 | 66 | 58 | 51 | 62 | 55 | 50 | 59 | 53 | 48 | 56 | 51 | 47 | 44 | | | | | | | | | | | | | | | | | | | |
| 5 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 48 | 43 | 53 | 47 | 42 | 50 | 45 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 6 | 68 | 54 | 45 | 39 | 65 | 53 | 44 | 38 | 50 | 43 | 37 | 48 | 41 | 36 | 46 | 40 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 8 | 58 | 45 | 36 | 30 | 56 | 44 | 36 | 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 | 30 | 25 | 23 | | | | | | | | | | | | | | | | | | | |
| 10 | 51 | 38 | 30 | 25 | 49 | 37 | 29 | 24 | 35 | 29 | 24 | 34 | 28 | 23 | 33 | 27 | 23 | 21 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4324 | 4324 | 4324 |
| 5° | 4277 | 4280 | 4268 |
| 10° | 4286 | 4193 | 4207 |
| 15° | 4239 | 4138 | 4128 |
| 20° | 4185 | 4059 | 4053 |
| 25° | 4146 | 3972 | 3989 |
| 30° | 4069 | 3883 | 3907 |
| 35° | 3979 | 3798 | 3798 |
| 40° | 3899 | 3710 | 3705 |
| 45° | 3839 | 3609 | 3611 |
| 50° | 3717 | 3482 | 3495 |
| 55° | 3631 | 3370 | 3385 |
| 60° | 3474 | 3200 | 3228 |
| 65° | 3275 | 3017 | 3081 |
| 70° | 3020 | 2759 | 2869 |
| 75° | 2632 | 2464 | 2623 |
| 80° | 2011 | 2062 | 2260 |
| 85° | 1238 | 1686 | 1994 |



TEST NUMBER: P709886

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 234.5 | 2.9 |
| 10°-20° | 672.9 | 8.3 |
| 20°-30° | 1022.8 | 12.6 |
| 30°-40° | 1238.9 | 15.3 |
| 40°-50° | 1302.6 | 16.1 |
| 50°-60° | 1204.1 | 14.9 |
| 60°-70° | 958.3 | 11.8 |
| 70°-80° | 603.2 | 7.4 |
| 80°-90° | 261.3 | 3.2 |
| 90°-100° | 155.0 | 1.9 |
| 100°-110° | 136.4 | 1.7 |
| 110°-120° | 112.7 | 1.4 |
| 120°-130° | 86.4 | 1.1 |
| 130°-140° | 60.3 | 0.7 |
| 140°-150° | 35.7 | 0.4 |
| 150°-160° | 16.7 | 0.2 |
| 160°-170° | 4.9 | 0.1 |
| 170°-180° | 0.5 | 0.0 |
| 0°-30° | 1930.1 | 23.8 |
| 0°-40° | 3169.0 | 39.1 |
| 0°-60° | 5675.7 | 70.0 |
| 0°-90° | 7498.4 | 92.5 |
| 90°-120° | 404.1 | 5.0 |
| 90°-150° | 586.4 | 7.2 |
| 90°-180° | 609.0 | 7.5 |
| 0°-180° | 8107.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2474 | 2474 | 2474 | 2474 | 2474 | |
| 5° | 2443 | 2464 | 2474 | 2471 | 2476 | 233 |
| 15° | 2357 | 2354 | 2386 | 2401 | 2406 | 663 |
| 25° | 2173 | 2183 | 2214 | 2256 | 2266 | 998 |
| 35° | 1895 | 1934 | 1981 | 2030 | 2035 | 1186 |
| 45° | 1589 | 1635 | 1695 | 1744 | 1760 | 1224 |
| 55° | 1230 | 1290 | 1360 | 1420 | 1436 | 1096 |
| 65° | 831 | 901 | 981 | 1046 | 1072 | 823 |
| 75° | 423 | 501 | 584 | 652 | 685 | 446 |
| 85° | 78 | 148 | 239 | 306 | 332 | 95 |
| 90° | 3 | 75 | 166 | 231 | 257 | 4 |
| 95° | 0 | 68 | 156 | 221 | 244 | 0 |
| 105° | 0 | 62 | 143 | 200 | 223 | 0 |
| 115° | 0 | 54 | 125 | 176 | 195 | 0 |
| 125° | 3 | 44 | 106 | 151 | 166 | 1 |
| 135° | 3 | 36 | 86 | 119 | 135 | 2 |
| 145° | 0 | 23 | 62 | 88 | 99 | 1 |
| 155° | 3 | 13 | 39 | 57 | 65 | 1 |
| 165° | 3 | 5 | 16 | 26 | 31 | 1 |
| 175° | 3 | 3 | 3 | 5 | 5 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P709886

CATALOG NUMBER: 8AWWS-L3C3-SQR-UNV-3500K-LOW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2473.9 | 2473.9 | 2473.9 | 2473.9 | 2473.9 |
| 2.5° | 2473.9 | 2455.8 | 2479.1 | 2476.5 | 2481.7 |
| 5° | 2442.8 | 2463.5 | 2473.9 | 2471.3 | 2476.5 |
| 7.5° | 2442.8 | 2442.8 | 2455.8 | 2463.5 | 2466.1 |
| 10° | 2424.6 | 2435.0 | 2429.8 | 2442.8 | 2455.8 |
| 12.5° | 2377.9 | 2406.4 | 2414.2 | 2442.8 | 2437.6 |
| 15° | 2357.1 | 2354.5 | 2385.7 | 2401.2 | 2406.4 |
| 17.5° | 2302.6 | 2323.4 | 2357.1 | 2372.7 | 2377.9 |
| 20° | 2268.8 | 2289.6 | 2310.4 | 2344.1 | 2341.5 |
| 22.5° | 2222.1 | 2240.3 | 2268.8 | 2300.0 | 2302.6 |
| 25° | 2172.8 | 2183.2 | 2214.3 | 2255.9 | 2266.3 |
| 27.5° | 2100.1 | 2133.9 | 2162.4 | 2216.9 | 2206.5 |
| 30° | 2043.0 | 2066.4 | 2102.7 | 2154.6 | 2165.0 |
| 32.5° | 1967.7 | 2014.4 | 2040.4 | 2087.1 | 2102.7 |
| 35° | 1895.0 | 1934.0 | 1980.7 | 2030.0 | 2035.2 |
| 37.5° | 1817.2 | 1871.7 | 1918.4 | 1970.3 | 1983.3 |
| 40° | 1741.9 | 1788.6 | 1845.7 | 1892.4 | 1902.8 |
| 42.5° | 1674.4 | 1718.5 | 1773.0 | 1832.7 | 1837.9 |
| 45° | 1588.7 | 1635.4 | 1695.1 | 1744.5 | 1760.0 |
| 47.5° | 1503.0 | 1557.6 | 1609.5 | 1669.2 | 1697.7 |
| 50° | 1404.4 | 1466.7 | 1526.4 | 1586.1 | 1599.1 |
| 52.5° | 1321.3 | 1373.3 | 1445.9 | 1505.6 | 1526.4 |
| 55° | 1230.5 | 1290.2 | 1360.3 | 1420.0 | 1435.6 |
| 57.5° | 1129.2 | 1186.3 | 1261.6 | 1326.5 | 1349.9 |
| 60° | 1033.2 | 1095.5 | 1170.8 | 1235.7 | 1251.2 |
| 62.5° | 929.3 | 999.4 | 1074.7 | 1142.2 | 1160.4 |
| 65° | 830.7 | 900.8 | 981.3 | 1046.2 | 1072.1 |
| 67.5° | 734.7 | 802.1 | 882.6 | 947.5 | 968.3 |
| 70° | 628.2 | 695.7 | 778.8 | 851.5 | 877.4 |
| 72.5° | 519.2 | 591.9 | 677.5 | 755.4 | 776.2 |
| 75° | 423.1 | 501.0 | 584.1 | 651.6 | 685.3 |
| 77.5° | 324.5 | 392.0 | 488.0 | 552.9 | 578.9 |
| 80° | 225.8 | 303.7 | 392.0 | 464.7 | 485.4 |
| 82.5° | 145.4 | 220.7 | 311.5 | 376.4 | 402.4 |
| 85° | 77.9 | 148.0 | 238.8 | 306.3 | 332.3 |
| 87.5° | 26.0 | 98.6 | 189.5 | 254.4 | 283.0 |
| 90° | 2.6 | 75.3 | 166.1 | 231.0 | 257.0 |
| 92.5° | 0.0 | 70.1 | 158.4 | 220.7 | 249.2 |
| 95° | 0.0 | 67.5 | 155.8 | 220.7 | 244.0 |
| 97.5° | 0.0 | 67.5 | 153.2 | 218.1 | 241.4 |
| 100° | 0.0 | 64.9 | 150.6 | 210.3 | 236.2 |
| 102.5° | 0.0 | 62.3 | 148.0 | 207.7 | 231.0 |
| 105° | 0.0 | 62.3 | 142.8 | 199.9 | 223.3 |



TEST NUMBER: P709886

CATALOG NUMBER: 8AWWS-L3C3-SQR-UNV-3500K-LOW

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-------|-------|-------|
| 112.5° | 0.0 | 54.5 | 129.8 | 184.3 | 205.1 |
| 115° | 0.0 | 54.5 | 124.6 | 176.5 | 194.7 |
| 117.5° | 0.0 | 51.9 | 122.0 | 171.3 | 186.9 |
| 120° | 0.0 | 49.3 | 116.8 | 163.5 | 181.7 |
| 122.5° | 0.0 | 46.7 | 111.6 | 155.8 | 173.9 |
| 125° | 2.6 | 44.1 | 106.4 | 150.6 | 166.1 |
| 127.5° | 2.6 | 41.5 | 101.2 | 142.8 | 158.4 |
| 130° | 2.6 | 41.5 | 96.0 | 135.0 | 150.6 |
| 132.5° | 2.6 | 38.9 | 90.9 | 127.2 | 142.8 |
| 135° | 2.6 | 36.3 | 85.7 | 119.4 | 135.0 |
| 137.5° | 2.6 | 33.7 | 80.5 | 114.2 | 124.6 |
| 140° | 0.0 | 31.2 | 75.3 | 103.8 | 116.8 |
| 142.5° | 2.6 | 26.0 | 67.5 | 98.6 | 106.4 |
| 145° | 0.0 | 23.4 | 62.3 | 88.3 | 98.6 |
| 147.5° | 2.6 | 20.8 | 57.1 | 80.5 | 90.9 |
| 150° | 2.6 | 18.2 | 51.9 | 72.7 | 83.1 |
| 152.5° | 2.6 | 15.6 | 44.1 | 64.9 | 72.7 |
| 155° | 2.6 | 13.0 | 38.9 | 57.1 | 64.9 |
| 157.5° | 2.6 | 10.4 | 31.2 | 49.3 | 54.5 |
| 160° | 2.6 | 10.4 | 26.0 | 41.5 | 46.7 |
| 162.5° | 2.6 | 7.8 | 20.8 | 33.7 | 38.9 |
| 165° | 2.6 | 5.2 | 15.6 | 26.0 | 31.2 |
| 167.5° | 2.6 | 5.2 | 10.4 | 20.8 | 23.4 |
| 170° | 2.6 | 5.2 | 7.8 | 13.0 | 15.6 |
| 172.5° | 2.6 | 2.6 | 5.2 | 7.8 | 10.4 |
| 175° | 2.6 | 2.6 | 2.6 | 5.2 | 5.2 |
| 177.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







| | | | | | |
|--------|-----|------|-------|-------|-------|
| 107.5° | 0.0 | 59.7 | 137.6 | 192.1 | 218.1 |
| 110° | 0.0 | 57.1 | 135.0 | 186.9 | 210.3 |



(END OF REPORT)