

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: P721818

Luminaire Tested: **22ARS-L3C3-HO-UNV-3500K-HI**

Issue Date: 10/25/2023



Test Information

Test Method: LM-79-08
Report Number: P721818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-014-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ARS-L3C3-HO-UNV-3500K-HI
Description: ARS 2x2 Selectable High Output 80CRI , SET AT 3500K AND, HI LUMEN
OUTPUT SETTINGS

Light Source: -
Ballast/Driver: -

Summary

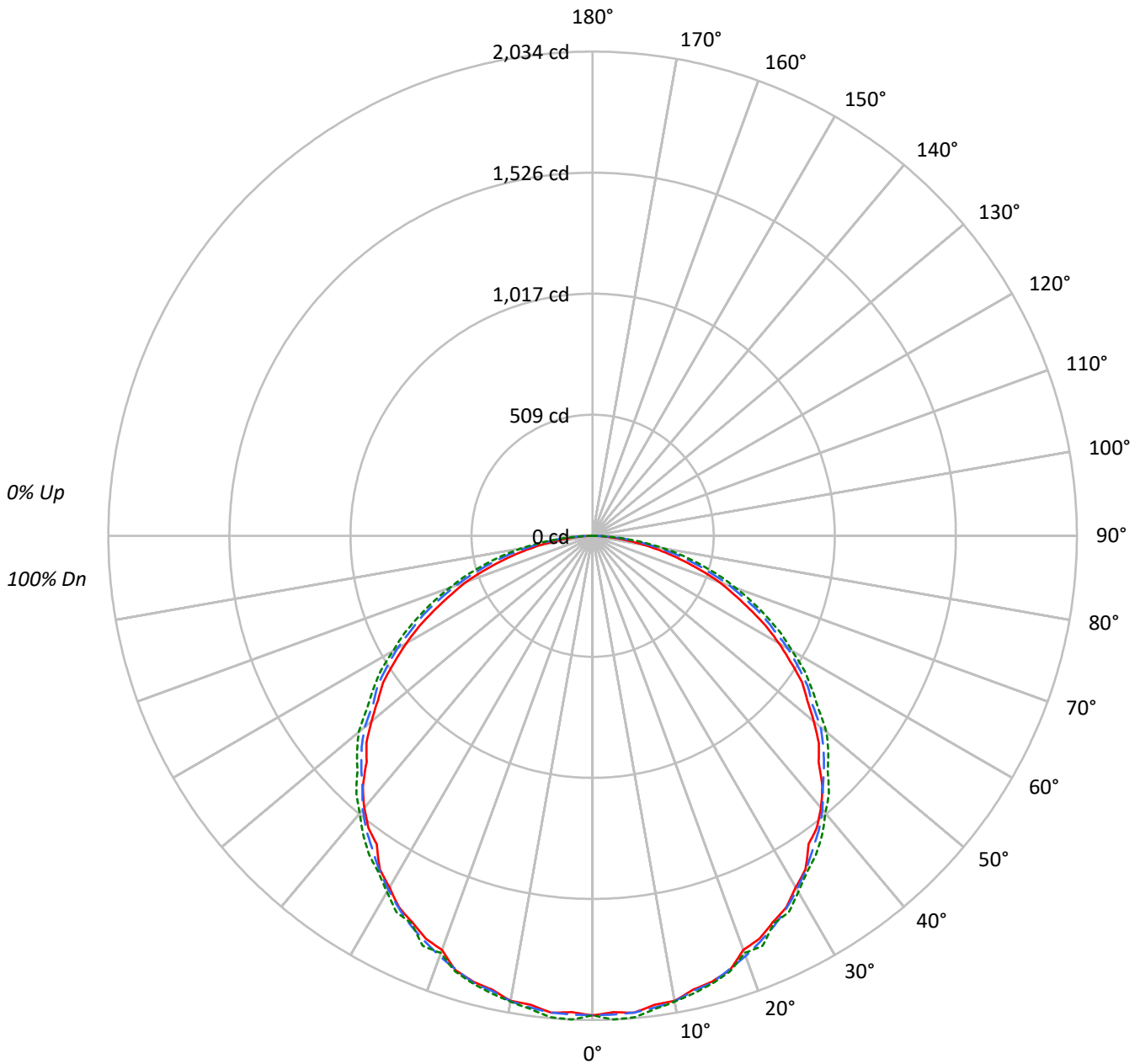
Lumens per Lamp: N/A
Luminaire Lumens: 5973.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.97' x L: 1.97' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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: P721818

CATALOG NUMBER: 22ARS-L3C3-HO-UNV-3500K-HI

Luminous Intensity Polar Plot





TEST NUMBER: P721818

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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 3 | 89 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 4 | 82 | 70 | 61 | 54 | 79 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 | | | | | | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5588 | 5588 | 5588 |
| 5° | 5598 | 5598 | 5652 |
| 10° | 5587 | 5592 | 5597 |
| 15° | 5567 | 5579 | 5590 |
| 20° | 5465 | 5545 | 5505 |
| 25° | 5482 | 5529 | 5500 |
| 30° | 5463 | 5494 | 5532 |
| 35° | 5354 | 5453 | 5539 |
| 40° | 5402 | 5437 | 5508 |
| 45° | 5266 | 5388 | 5479 |
| 50° | 5231 | 5390 | 5533 |
| 55° | 5195 | 5336 | 5440 |
| 60° | 5011 | 5248 | 5367 |
| 65° | 4769 | 5139 | 5304 |
| 70° | 4569 | 4963 | 5183 |
| 75° | 4081 | 4684 | 5039 |
| 80° | 3476 | 4282 | 4809 |
| 85° | 2349 | 3771 | 3956 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 191.1 | 3.2 |
| 10°-20° | 547.8 | 9.2 |
| 20°-30° | 832.9 | 13.9 |
| 30°-40° | 1010.1 | 16.9 |
| 40°-50° | 1061.6 | 17.8 |
| 50°-60° | 978.8 | 16.4 |
| 60°-70° | 765.9 | 12.8 |
| 70°-80° | 457.5 | 7.7 |
| 80°-90° | 127.2 | 2.1 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1571.9 | 26.3 |
| 0°-40° | 2581.9 | 43.2 |
| 0°-60° | 4622.3 | 77.4 |
| 0°-90° | 5973.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5973.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2015 | 2015 | 2015 | 2015 | 2015 | |
| 5° | 2011 | 1997 | 2011 | 2022 | 2030 | 190 |
| 15° | 1939 | 1931 | 1943 | 1949 | 1947 | 546 |
| 25° | 1791 | 1801 | 1807 | 1826 | 1797 | 827 |
| 35° | 1581 | 1605 | 1611 | 1622 | 1636 | 1001 |
| 45° | 1342 | 1356 | 1374 | 1393 | 1397 | 1045 |
| 55° | 1074 | 1076 | 1104 | 1117 | 1125 | 951 |
| 65° | 727 | 752 | 783 | 797 | 808 | 723 |
| 75° | 381 | 406 | 437 | 462 | 470 | 406 |
| 85° | 74 | 91 | 118 | 128 | 124 | 95 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P721818

CATALOG NUMBER: 22ARS-L3C3-HO-UNV-3500K-HI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2014.7 | 2014.7 | 2014.7 | 2014.7 | 2014.7 |
| 2.5° | 2003.0 | 2014.7 | 2012.7 | 2026.3 | 2034.1 |
| 5° | 2010.8 | 1997.2 | 2010.8 | 2022.5 | 2030.2 |
| 7.5° | 1987.5 | 1991.4 | 1999.1 | 2003.0 | 2005.0 |
| 10° | 1983.6 | 1975.8 | 1985.5 | 1997.2 | 1987.5 |
| 12.5° | 1952.5 | 1948.6 | 1958.3 | 1985.5 | 1968.1 |
| 15° | 1938.9 | 1931.1 | 1942.8 | 1948.6 | 1946.7 |
| 17.5° | 1913.7 | 1909.8 | 1909.8 | 1921.4 | 1919.5 |
| 20° | 1851.5 | 1876.7 | 1878.7 | 1902.0 | 1865.1 |
| 22.5° | 1832.1 | 1841.8 | 1843.7 | 1861.2 | 1865.1 |
| 25° | 1791.3 | 1801.0 | 1806.8 | 1826.2 | 1797.1 |
| 27.5° | 1760.2 | 1754.4 | 1764.1 | 1768.0 | 1783.5 |
| 30° | 1705.8 | 1701.9 | 1715.5 | 1727.2 | 1727.2 |
| 32.5° | 1663.0 | 1661.1 | 1666.9 | 1674.7 | 1674.7 |
| 35° | 1581.4 | 1604.8 | 1610.6 | 1622.2 | 1635.8 |
| 37.5° | 1546.5 | 1540.6 | 1560.1 | 1577.6 | 1583.4 |
| 40° | 1492.1 | 1484.3 | 1501.8 | 1509.6 | 1521.2 |
| 42.5° | 1428.0 | 1428.0 | 1431.8 | 1461.0 | 1468.8 |
| 45° | 1342.5 | 1356.1 | 1373.6 | 1393.0 | 1396.9 |
| 47.5° | 1288.1 | 1282.3 | 1315.3 | 1326.9 | 1342.5 |
| 50° | 1212.3 | 1222.0 | 1249.2 | 1257.0 | 1282.3 |
| 52.5° | 1136.5 | 1146.3 | 1161.8 | 1187.1 | 1194.8 |
| 55° | 1074.4 | 1076.3 | 1103.5 | 1117.1 | 1124.9 |
| 57.5° | 985.0 | 994.7 | 1023.9 | 1039.4 | 1054.9 |
| 60° | 903.4 | 909.2 | 946.1 | 965.6 | 967.5 |
| 62.5° | 819.9 | 835.4 | 858.7 | 884.0 | 893.7 |
| 65° | 726.6 | 751.9 | 783.0 | 796.6 | 808.2 |
| 67.5° | 641.1 | 658.6 | 693.6 | 720.8 | 724.7 |
| 70° | 563.4 | 577.0 | 612.0 | 633.4 | 639.2 |
| 72.5° | 470.2 | 491.5 | 520.7 | 551.8 | 557.6 |
| 75° | 380.8 | 406.0 | 437.1 | 462.4 | 470.2 |
| 77.5° | 297.2 | 320.6 | 353.6 | 375.0 | 388.6 |
| 80° | 217.6 | 233.1 | 268.1 | 293.4 | 301.1 |
| 82.5° | 139.9 | 159.3 | 192.3 | 217.6 | 217.6 |
| 85° | 73.8 | 91.3 | 118.5 | 128.2 | 124.3 |
| 87.5° | 25.3 | 35.0 | 40.8 | 46.6 | 48.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







(END OF REPORT)