

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798316

Luminaire Tested: 4VT3-SL3C3-G-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2307-102-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4VT3-SL3C3-G-UNV-HIGH-3500K
Description: Vaportite LED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

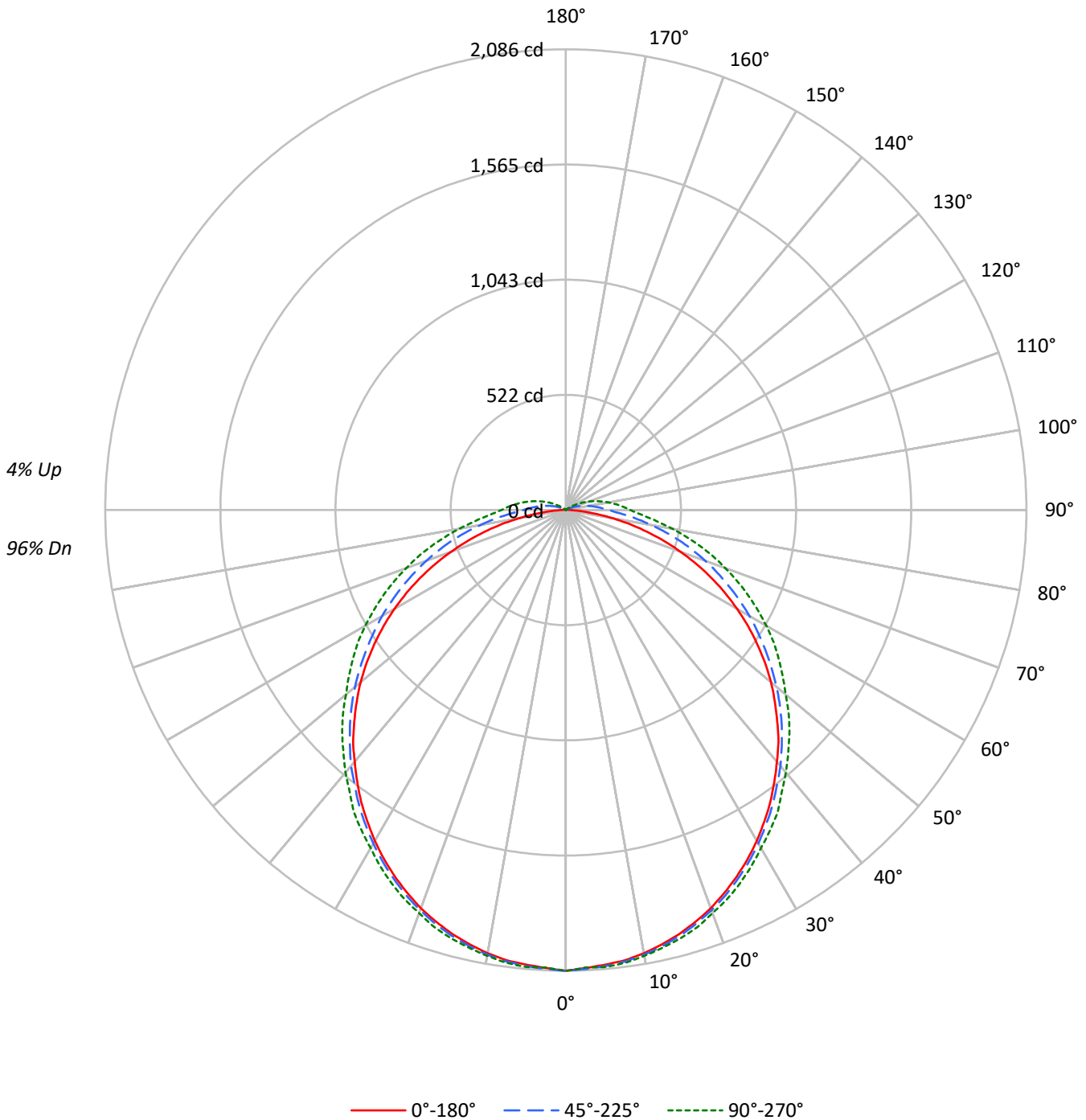
Lumens per Lamp: N/A
Luminaire Lumens: 6622.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): 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: 24 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 98 | 98 | 98 | 96 |
| 1 | 107 | 101 | 96 | 92 | 103 | 99 | 94 | 90 | 93 | 90 | 87 | 89 | 86 | 83 | 85 | 82 | 80 | 80 | 80 | 80 | 78 |
| 2 | 96 | 88 | 80 | 74 | 93 | 85 | 79 | 73 | 81 | 75 | 71 | 77 | 72 | 68 | 73 | 70 | 66 | 66 | 66 | 66 | 64 |
| 3 | 88 | 77 | 68 | 61 | 85 | 75 | 67 | 60 | 71 | 64 | 59 | 68 | 62 | 57 | 65 | 60 | 56 | 56 | 56 | 56 | 53 |
| 4 | 80 | 68 | 58 | 51 | 77 | 66 | 57 | 51 | 63 | 56 | 50 | 60 | 54 | 49 | 57 | 52 | 47 | 47 | 47 | 47 | 45 |
| 5 | 74 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 49 | 43 | 54 | 47 | 42 | 52 | 46 | 41 | 41 | 41 | 41 | 39 |
| 6 | 68 | 54 | 45 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 36 | 36 | 36 | 36 | 34 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 39 | 33 | 44 | 38 | 32 | 43 | 37 | 32 | 32 | 32 | 32 | 30 |
| 8 | 58 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 42 | 35 | 29 | 41 | 34 | 29 | 39 | 33 | 29 | 29 | 29 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 26 | 26 | 26 | 24 |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 28 | 24 | 34 | 28 | 23 | 23 | 23 | 23 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11229 | 11229 | 11229 |
| 5° | 11161 | 11196 | 11219 |
| 10° | 11136 | 11172 | 11201 |
| 15° | 11071 | 11119 | 11185 |
| 20° | 10990 | 11045 | 11126 |
| 25° | 10874 | 10945 | 11080 |
| 30° | 10749 | 10836 | 10984 |
| 35° | 10611 | 10724 | 10987 |
| 40° | 10451 | 10625 | 10899 |
| 45° | 10309 | 10523 | 10902 |
| 50° | 10155 | 10436 | 10880 |
| 55° | 9930 | 10346 | 11046 |
| 60° | 9647 | 10344 | 11287 |
| 65° | 9265 | 10380 | 11591 |
| 70° | 8710 | 10581 | 12095 |
| 75° | 7935 | 11060 | 13082 |
| 80° | 6701 | 12196 | 15212 |
| 85° | 5076 | 17025 | 22897 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 40014 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 197.5 | 3.0 |
| 10°-20° | 565.0 | 8.5 |
| 20°-30° | 853.0 | 12.9 |
| 30°-40° | 1027.0 | 15.5 |
| 40°-50° | 1073.7 | 16.2 |
| 50°-60° | 995.4 | 15.0 |
| 60°-70° | 809.8 | 12.2 |
| 70°-80° | 549.0 | 8.3 |
| 80°-90° | 286.1 | 4.3 |
| 90°-100° | 149.7 | 2.3 |
| 100°-110° | 78.6 | 1.2 |
| 110°-120° | 30.8 | 0.5 |
| 120°-130° | 6.1 | 0.1 |
| 130°-140° | 0.2 | 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° | 1615.5 | 24.4 |
| 0°-40° | 2642.5 | 39.9 |
| 0°-60° | 4711.7 | 71.2 |
| 0°-90° | 6356.5 | 96.0 |
| 90°-120° | 259.2 | 3.9 |
| 90°-150° | 265.4 | 4.0 |
| 90°-180° | 265.0 | 4.0 |
| 0°-180° | 6622.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2086 | 2086 | 2086 | 2086 | 2086 | |
| 5° | 2066 | 2092 | 2072 | 2079 | 2077 | 196 |
| 15° | 1987 | 2010 | 1996 | 2008 | 2007 | 561 |
| 25° | 1831 | 1856 | 1843 | 1857 | 1866 | 844 |
| 35° | 1615 | 1639 | 1632 | 1655 | 1672 | 1010 |
| 45° | 1354 | 1378 | 1383 | 1414 | 1432 | 1045 |
| 55° | 1058 | 1079 | 1103 | 1152 | 1177 | 946 |
| 65° | 728 | 754 | 815 | 880 | 910 | 719 |
| 75° | 382 | 438 | 532 | 601 | 629 | 404 |
| 85° | 82 | 169 | 276 | 348 | 371 | 96 |
| 90° | 18 | 90 | 191 | 265 | 291 | 12 |
| 95° | 12 | 54 | 146 | 217 | 244 | 9 |
| 105° | 5 | 11 | 71 | 132 | 154 | 6 |
| 115° | 2 | 2 | 20 | 60 | 76 | 2 |
| 125° | 1 | 1 | 0 | 12 | 20 | 1 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |

TEST NUMBER: P798316

CATALOG NUMBER: 4VT3-SL3C3-G-UNV-HIGH-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2086.4 | 2086.4 | 2086.4 | 2086.4 | 2086.4 |
| 2.5° | 2075.5 | 2098.2 | 2079.9 | 2086.4 | 2073.4 |
| 5° | 2065.8 | 2091.8 | 2072.3 | 2078.8 | 2076.6 |
| 7.5° | 2056.1 | 2078.8 | 2061.5 | 2069.1 | 2068.0 |
| 10° | 2037.7 | 2060.4 | 2044.2 | 2051.8 | 2049.6 |
| 12.5° | 2013.9 | 2037.7 | 2022.6 | 2032.3 | 2030.1 |
| 15° | 1986.9 | 2009.6 | 1995.6 | 2008.5 | 2007.4 |
| 17.5° | 1954.5 | 1979.3 | 1964.2 | 1978.3 | 1980.4 |
| 20° | 1918.8 | 1941.5 | 1928.5 | 1940.4 | 1942.6 |
| 22.5° | 1876.6 | 1900.4 | 1888.5 | 1901.5 | 1908.0 |
| 25° | 1831.2 | 1856.1 | 1843.1 | 1857.2 | 1865.8 |
| 27.5° | 1782.6 | 1806.4 | 1795.6 | 1808.5 | 1819.3 |
| 30° | 1729.6 | 1752.3 | 1743.7 | 1759.9 | 1767.5 |
| 32.5° | 1672.3 | 1698.3 | 1688.5 | 1710.2 | 1721.0 |
| 35° | 1615.0 | 1638.8 | 1632.3 | 1655.0 | 1672.3 |
| 37.5° | 1551.3 | 1577.2 | 1570.7 | 1595.6 | 1607.5 |
| 40° | 1487.5 | 1513.4 | 1512.3 | 1536.1 | 1551.3 |
| 42.5° | 1425.9 | 1444.2 | 1447.5 | 1477.7 | 1490.7 |
| 45° | 1354.5 | 1378.3 | 1382.6 | 1414.0 | 1432.3 |
| 47.5° | 1284.2 | 1306.9 | 1315.6 | 1346.9 | 1369.6 |
| 50° | 1212.9 | 1233.4 | 1246.4 | 1281.0 | 1299.4 |
| 52.5° | 1137.2 | 1156.7 | 1174.0 | 1216.1 | 1238.8 |
| 55° | 1058.3 | 1078.9 | 1102.6 | 1152.4 | 1177.2 |
| 57.5° | 978.3 | 999.9 | 1031.3 | 1085.3 | 1116.7 |
| 60° | 896.2 | 923.2 | 961.0 | 1017.2 | 1048.6 |
| 62.5° | 812.9 | 839.9 | 887.5 | 948.0 | 979.4 |
| 65° | 727.5 | 754.5 | 815.1 | 879.9 | 910.2 |
| 67.5° | 641.0 | 675.6 | 743.7 | 812.9 | 839.9 |
| 70° | 553.5 | 593.5 | 672.4 | 742.7 | 768.6 |
| 72.5° | 467.0 | 514.6 | 602.1 | 672.4 | 700.5 |
| 75° | 381.6 | 437.8 | 531.9 | 601.0 | 629.1 |
| 77.5° | 297.3 | 363.2 | 461.6 | 531.9 | 557.8 |
| 80° | 216.2 | 291.9 | 393.5 | 464.8 | 490.8 |
| 82.5° | 142.7 | 228.1 | 333.0 | 404.3 | 425.9 |
| 85° | 82.2 | 168.6 | 275.7 | 348.1 | 370.8 |
| 87.5° | 37.8 | 121.1 | 227.0 | 299.4 | 324.3 |
| 90° | 18.4 | 89.7 | 191.3 | 264.8 | 290.8 |
| 92.5° | 14.1 | 70.3 | 167.6 | 241.1 | 267.0 |
| 95° | 11.9 | 54.1 | 145.9 | 217.3 | 244.3 |
| 97.5° | 9.7 | 38.9 | 125.4 | 194.6 | 220.5 |
| 100° | 7.6 | 27.0 | 107.0 | 173.0 | 197.8 |
| 102.5° | 6.5 | 17.3 | 88.6 | 151.3 | 174.0 |
| 105° | 5.4 | 10.8 | 71.3 | 131.9 | 153.5 |
| 107.5° | 4.3 | 6.5 | 56.2 | 111.3 | 131.9 |
| 110° | 3.2 | 3.2 | 42.2 | 93.0 | 112.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|------|
| 112.5° | 3.2 | 3.2 | 30.3 | 74.6 | 93.0 |
| 115° | 2.2 | 2.2 | 20.5 | 59.5 | 75.7 |
| 117.5° | 2.2 | 2.2 | 11.9 | 44.3 | 58.4 |
| 120° | 1.1 | 1.1 | 5.4 | 30.3 | 43.2 |
| 122.5° | 1.1 | 1.1 | 1.1 | 20.5 | 30.3 |
| 125° | 1.1 | 1.1 | 0.0 | 11.9 | 19.5 |
| 127.5° | 1.1 | 1.1 | 0.0 | 5.4 | 10.8 |
| 130° | 1.1 | 1.1 | 0.0 | 1.1 | 4.3 |
| 132.5° | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)