

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P893731

Luminaire Tested: 4MB-6SL-FLT-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-FLT-UNV-L840
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with FLAT FROSTED LENS, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

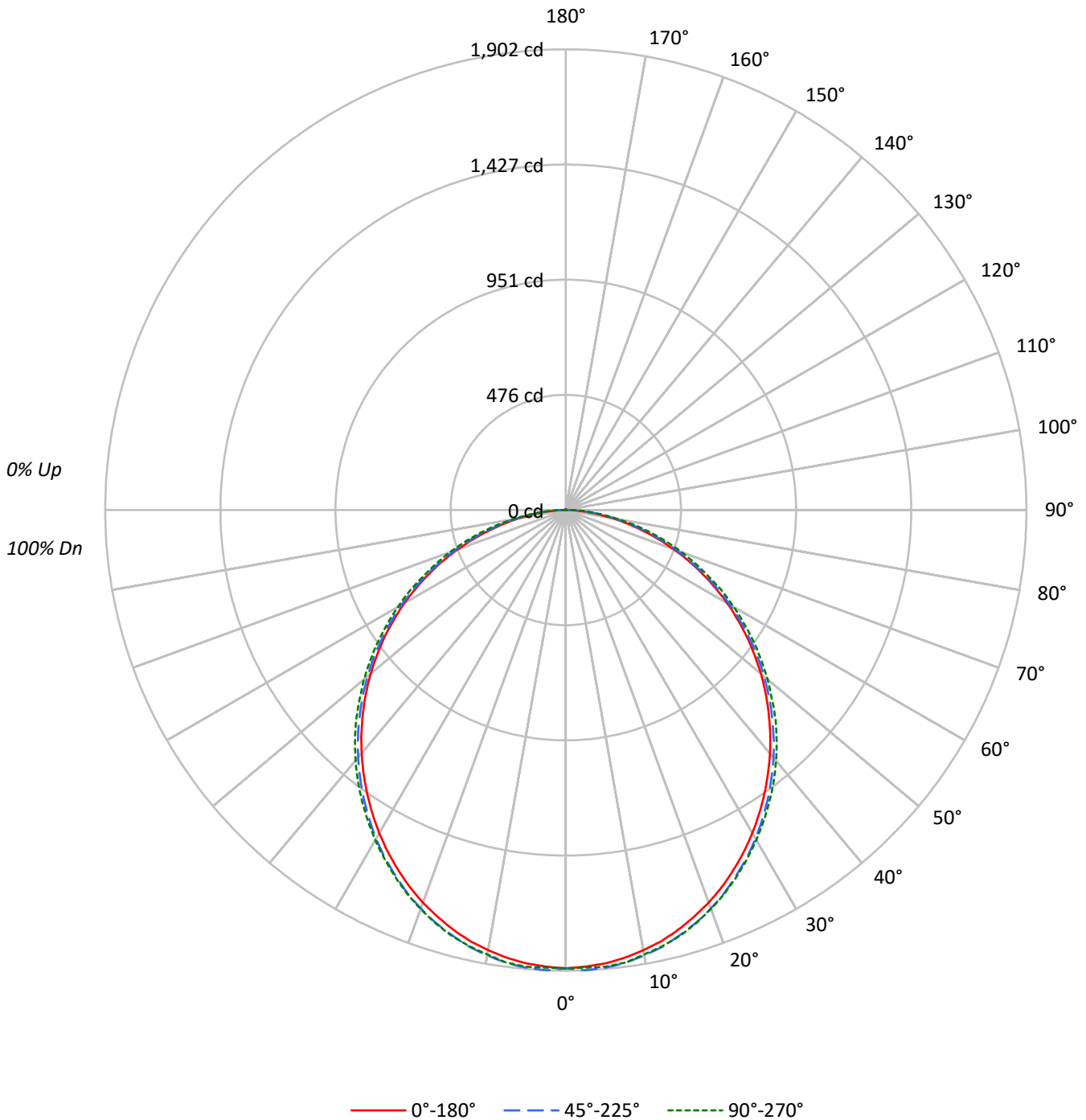
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5253.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893731
CATALOG NUMBER: 4MB-6SL-FLT-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P893731

CATALOG NUMBER: 4MB-6SL-FLT-UNV-L840

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 96 | 106 | 101 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 86 | 86 | 86 | 83 |
| 2 | 99 | 90 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 72 | 72 | 72 | 69 |
| 3 | 90 | 79 | 71 | 65 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 62 | 69 | 65 | 61 | 61 | 61 | 61 | 58 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 66 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 52 | 52 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 45 | 45 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 40 | 40 | 40 | 38 |
| 7 | 65 | 51 | 43 | 36 | 63 | 51 | 42 | 36 | 49 | 41 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 35 | 35 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 32 | 32 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 29 | 29 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 26 | 26 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13464 | 13464 | 13464 |
| 5° | 13417 | 13545 | 13515 |
| 10° | 13331 | 13492 | 13461 |
| 15° | 13215 | 13388 | 13408 |
| 20° | 13059 | 13258 | 13269 |
| 25° | 12865 | 13072 | 13105 |
| 30° | 12656 | 12872 | 12929 |
| 35° | 12417 | 12634 | 12742 |
| 40° | 12185 | 12391 | 12545 |
| 45° | 11918 | 12113 | 12322 |
| 50° | 11638 | 11823 | 12038 |
| 55° | 11324 | 11497 | 11737 |
| 60° | 10960 | 11138 | 11394 |
| 65° | 10472 | 10682 | 10962 |
| 70° | 9856 | 10143 | 10605 |
| 75° | 9064 | 9446 | 10053 |
| 80° | 8002 | 8629 | 9080 |
| 85° | 6898 | 7919 | 8482 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12322 cd/sqm



TEST NUMBER: P893731
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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 179.0 | 3.4 |
| 10°-20° | 510.0 | 9.7 |
| 20°-30° | 764.3 | 14.5 |
| 30°-40° | 909.4 | 17.3 |
| 40°-50° | 933.2 | 17.8 |
| 50°-60° | 836.0 | 15.9 |
| 60°-70° | 635.2 | 12.1 |
| 70°-80° | 369.2 | 7.0 |
| 80°-90° | 110.8 | 2.1 |
| 90°-100° | 2.6 | 0.1 |
| 100°-110° | 0.5 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.2 | 0.0 |
| 130°-140° | 0.6 | 0.0 |
| 140°-150° | 0.8 | 0.0 |
| 150°-160° | 0.6 | 0.0 |
| 160°-170° | 0.4 | 0.0 |
| 170°-180° | 0.2 | 0.0 |
| 0°-30° | 1453.3 | 27.7 |
| 0°-40° | 2362.7 | 45.0 |
| 0°-60° | 4131.9 | 78.7 |
| 0°-90° | 5247.0 | 99.9 |
| 90°-120° | 3.1 | 0.1 |
| 90°-150° | 4.8 | 0.1 |
| 90°-180° | 6.0 | 0.1 |
| 0°-180° | 5253.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1892 | 1892 | 1892 | 1892 | 1892 | |
| 5° | 1878 | 1910 | 1896 | 1887 | 1892 | 178 |
| 15° | 1794 | 1829 | 1818 | 1815 | 1820 | 506 |
| 25° | 1639 | 1676 | 1665 | 1662 | 1669 | 755 |
| 35° | 1430 | 1464 | 1455 | 1459 | 1467 | 895 |
| 45° | 1184 | 1214 | 1204 | 1214 | 1225 | 914 |
| 55° | 913 | 935 | 927 | 938 | 946 | 816 |
| 65° | 622 | 637 | 634 | 646 | 651 | 616 |
| 75° | 330 | 342 | 344 | 356 | 366 | 350 |
| 85° | 84 | 91 | 97 | 104 | 104 | 92 |
| 90° | 1 | 6 | 6 | 10 | 8 | 6 |
| 95° | 0 | 1 | 1 | 3 | 4 | 0 |
| 105° | 0 | 0 | 0 | 1 | 1 | 0 |
| 115° | 0 | 0 | 0 | 0 | 0 | 0 |
| 125° | 0 | 0 | 0 | 0 | 0 | 1 |
| 135° | 0 | 0 | 1 | 0 | 0 | 1 |
| 145° | 1 | 1 | 1 | 1 | 1 | 1 |
| 155° | 1 | 1 | 1 | 1 | 1 | 1 |
| 165° | 1 | 1 | 1 | 1 | 1 | 1 |
| 175° | 3 | 3 | 3 | 1 | 1 | 0 |
| 180° | 1 | 1 | 1 | 1 | 1 | |



TEST NUMBER: P893731
 CATALOG NUMBER: 4MB-6SL-FLT-UNV-L840

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 |
| 2.5° | 1886.8 | 1884.0 | 1886.8 | 1885.4 | 1899.3 | 1915.9 | 1913.1 | 1900.6 | 1886.8 | 1890.9 | 1902.0 |
| 5° | 1878.5 | 1877.1 | 1881.2 | 1878.5 | 1892.3 | 1910.3 | 1904.8 | 1893.7 | 1881.2 | 1885.4 | 1896.5 |
| 7.5° | 1864.6 | 1864.6 | 1870.2 | 1867.4 | 1879.9 | 1897.9 | 1892.3 | 1882.6 | 1870.2 | 1874.3 | 1885.4 |
| 10° | 1845.2 | 1846.6 | 1853.5 | 1849.4 | 1860.5 | 1879.9 | 1874.3 | 1864.6 | 1853.5 | 1856.3 | 1867.4 |
| 12.5° | 1823.1 | 1823.1 | 1831.4 | 1827.2 | 1838.3 | 1856.3 | 1849.4 | 1842.5 | 1831.4 | 1834.1 | 1846.6 |
| 15° | 1794.0 | 1795.4 | 1805.1 | 1800.9 | 1810.6 | 1828.6 | 1821.7 | 1816.1 | 1806.4 | 1807.8 | 1817.5 |
| 17.5° | 1760.7 | 1764.9 | 1774.6 | 1770.4 | 1780.1 | 1798.1 | 1789.8 | 1784.3 | 1776.0 | 1777.4 | 1787.0 |
| 20° | 1724.7 | 1728.9 | 1738.6 | 1735.8 | 1742.7 | 1760.7 | 1752.4 | 1749.6 | 1741.3 | 1742.7 | 1751.0 |
| 22.5° | 1684.5 | 1688.7 | 1699.8 | 1697.0 | 1703.9 | 1721.9 | 1712.2 | 1710.9 | 1702.5 | 1703.9 | 1710.9 |
| 25° | 1638.8 | 1644.4 | 1656.8 | 1654.1 | 1659.6 | 1676.2 | 1667.9 | 1665.1 | 1659.6 | 1659.6 | 1665.1 |
| 27.5° | 1591.7 | 1597.3 | 1611.1 | 1607.0 | 1611.1 | 1629.1 | 1619.4 | 1618.0 | 1612.5 | 1612.5 | 1618.0 |
| 30° | 1540.5 | 1546.0 | 1561.2 | 1557.1 | 1561.2 | 1576.5 | 1566.8 | 1568.2 | 1562.6 | 1562.6 | 1566.8 |
| 32.5° | 1486.4 | 1490.6 | 1507.2 | 1504.4 | 1507.2 | 1522.5 | 1512.8 | 1514.1 | 1508.6 | 1510.0 | 1511.4 |
| 35° | 1429.6 | 1433.8 | 1451.8 | 1449.0 | 1450.4 | 1464.3 | 1457.3 | 1457.3 | 1453.2 | 1451.8 | 1454.6 |
| 37.5° | 1371.5 | 1375.6 | 1397.8 | 1390.9 | 1390.9 | 1404.7 | 1399.2 | 1399.2 | 1395.0 | 1393.6 | 1395.0 |
| 40° | 1311.9 | 1314.7 | 1338.2 | 1331.3 | 1329.9 | 1342.4 | 1338.2 | 1338.2 | 1335.4 | 1332.7 | 1334.1 |
| 42.5° | 1249.5 | 1253.7 | 1277.3 | 1271.7 | 1266.2 | 1280.0 | 1275.9 | 1277.3 | 1273.1 | 1270.3 | 1270.3 |
| 45° | 1184.4 | 1188.6 | 1212.1 | 1209.4 | 1201.1 | 1213.5 | 1209.4 | 1212.1 | 1206.6 | 1203.8 | 1203.8 |
| 47.5° | 1119.3 | 1124.9 | 1147.0 | 1142.9 | 1134.6 | 1147.0 | 1142.9 | 1145.7 | 1140.1 | 1137.3 | 1137.3 |
| 50° | 1051.4 | 1057.0 | 1080.5 | 1073.6 | 1065.3 | 1077.8 | 1075.0 | 1076.4 | 1072.2 | 1069.5 | 1068.1 |
| 52.5° | 982.2 | 989.1 | 1011.3 | 1003.0 | 996.0 | 1007.1 | 1005.7 | 1007.1 | 1001.6 | 1000.2 | 998.8 |
| 55° | 912.9 | 919.8 | 940.6 | 930.9 | 925.4 | 935.1 | 932.3 | 935.1 | 929.5 | 928.2 | 926.8 |
| 57.5° | 840.9 | 847.8 | 867.2 | 857.5 | 853.4 | 861.7 | 860.3 | 861.7 | 857.5 | 856.1 | 854.7 |
| 60° | 770.2 | 775.8 | 793.8 | 784.1 | 779.9 | 788.2 | 785.5 | 789.6 | 784.1 | 784.1 | 782.7 |
| 62.5° | 695.4 | 702.4 | 720.4 | 709.3 | 706.5 | 713.4 | 710.7 | 714.8 | 712.0 | 709.3 | 707.9 |
| 65° | 622.0 | 626.2 | 642.8 | 633.1 | 628.9 | 637.2 | 635.9 | 638.6 | 634.5 | 635.9 | 634.5 |
| 67.5° | 548.6 | 551.4 | 568.0 | 556.9 | 554.1 | 562.4 | 563.8 | 562.4 | 559.7 | 561.1 | 559.7 |
| 70° | 473.8 | 476.5 | 490.4 | 480.7 | 479.3 | 486.2 | 489.0 | 487.6 | 484.9 | 486.2 | 487.6 |
| 72.5° | 401.7 | 403.1 | 415.6 | 407.3 | 405.9 | 414.2 | 414.2 | 414.2 | 414.2 | 414.2 | 417.0 |
| 75° | 329.7 | 331.1 | 342.2 | 335.2 | 333.9 | 342.2 | 342.2 | 342.2 | 342.2 | 344.9 | 343.6 |
| 77.5° | 260.4 | 259.1 | 270.1 | 266.0 | 263.2 | 271.5 | 271.5 | 272.9 | 275.7 | 278.4 | 274.3 |
| 80° | 195.3 | 193.9 | 202.3 | 196.7 | 196.7 | 205.0 | 203.6 | 205.0 | 207.8 | 209.2 | 210.6 |
| 82.5° | 137.1 | 134.4 | 141.3 | 139.9 | 138.5 | 145.5 | 146.8 | 145.5 | 149.6 | 151.0 | 151.0 |
| 85° | 84.5 | 84.5 | 88.7 | 85.9 | 85.9 | 91.4 | 91.4 | 92.8 | 95.6 | 97.0 | 97.0 |
| 87.5° | 40.2 | 38.8 | 42.9 | 41.6 | 40.2 | 44.3 | 44.3 | 45.7 | 47.1 | 48.5 | 47.1 |
| 90° | 1.4 | 1.4 | 2.8 | 2.8 | 2.8 | 5.5 | 5.5 | 5.5 | 6.9 | 6.9 | 5.5 |
| 92.5° | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.8 | 2.8 | 2.8 | 2.8 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 |



TEST NUMBER: P893731
 CATALOG NUMBER: 4MB-6SL-FLT-UNV-L840

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 1.4 |
| 132.5° | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 |
| 137.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 140° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 142.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 145° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 147.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 150° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 152.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 155° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 157.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 160° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 162.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 165° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 167.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 170° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 172.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 175° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 1.4 | 2.8 | 2.8 |
| 177.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 180° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |



TEST NUMBER: P893731
 CATALOG NUMBER: 4MB-6SL-FLT-UNV-L840

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 | 1892.3 |
| 2.5° | 1885.4 | 1875.7 | 1871.6 | 1874.3 | 1893.7 | 1874.3 | 1895.1 | 1902.0 | 1877.1 | 1890.9 |
| 5° | 1879.9 | 1870.2 | 1864.6 | 1867.4 | 1886.8 | 1868.8 | 1890.9 | 1899.3 | 1878.5 | 1892.3 |
| 7.5° | 1868.8 | 1857.7 | 1854.9 | 1859.1 | 1875.7 | 1860.5 | 1882.6 | 1890.9 | 1870.2 | 1884.0 |
| 10° | 1852.2 | 1842.5 | 1839.7 | 1843.8 | 1859.1 | 1843.8 | 1863.2 | 1870.2 | 1850.8 | 1863.2 |
| 12.5° | 1831.4 | 1821.7 | 1818.9 | 1824.5 | 1838.3 | 1824.5 | 1843.8 | 1850.8 | 1831.4 | 1843.8 |
| 15° | 1805.1 | 1795.4 | 1794.0 | 1802.3 | 1814.8 | 1802.3 | 1821.7 | 1827.2 | 1807.8 | 1820.3 |
| 17.5° | 1773.2 | 1763.5 | 1764.9 | 1774.6 | 1784.3 | 1773.2 | 1791.2 | 1796.7 | 1778.7 | 1788.4 |
| 20° | 1738.6 | 1727.5 | 1730.3 | 1738.6 | 1746.9 | 1735.8 | 1753.8 | 1759.3 | 1742.7 | 1752.4 |
| 22.5° | 1698.4 | 1687.3 | 1690.1 | 1699.8 | 1705.3 | 1695.6 | 1712.2 | 1717.8 | 1703.9 | 1713.6 |
| 25° | 1654.1 | 1644.4 | 1648.5 | 1658.2 | 1662.4 | 1654.1 | 1669.3 | 1673.5 | 1661.0 | 1669.3 |
| 27.5° | 1609.7 | 1598.6 | 1604.2 | 1613.9 | 1616.7 | 1608.3 | 1623.6 | 1626.4 | 1613.9 | 1622.2 |
| 30° | 1559.9 | 1548.8 | 1555.7 | 1566.8 | 1566.8 | 1561.2 | 1573.7 | 1576.5 | 1566.8 | 1573.7 |
| 32.5° | 1504.4 | 1496.1 | 1504.4 | 1514.1 | 1512.8 | 1508.6 | 1521.1 | 1523.8 | 1515.5 | 1521.1 |
| 35° | 1449.0 | 1442.1 | 1450.4 | 1460.1 | 1458.7 | 1454.6 | 1467.0 | 1468.4 | 1461.5 | 1467.0 |
| 37.5° | 1392.2 | 1386.7 | 1395.0 | 1403.3 | 1400.5 | 1397.8 | 1408.9 | 1408.9 | 1404.7 | 1410.2 |
| 40° | 1334.1 | 1328.5 | 1335.4 | 1345.1 | 1339.6 | 1339.6 | 1346.5 | 1349.3 | 1345.1 | 1350.7 |
| 42.5° | 1273.1 | 1267.6 | 1275.9 | 1284.2 | 1278.6 | 1277.3 | 1285.6 | 1287.0 | 1284.2 | 1288.3 |
| 45° | 1209.4 | 1203.8 | 1212.1 | 1219.1 | 1213.5 | 1213.5 | 1220.5 | 1220.5 | 1219.1 | 1224.6 |
| 47.5° | 1144.3 | 1140.1 | 1147.0 | 1154.0 | 1148.4 | 1152.6 | 1152.6 | 1152.6 | 1155.3 | 1154.0 |
| 50° | 1077.8 | 1073.6 | 1079.2 | 1087.5 | 1080.5 | 1081.9 | 1084.7 | 1084.7 | 1086.1 | 1087.5 |
| 52.5° | 1008.5 | 1003.0 | 1008.5 | 1018.2 | 1008.5 | 1012.7 | 1014.0 | 1015.4 | 1019.6 | 1016.8 |
| 55° | 939.2 | 933.7 | 939.2 | 947.6 | 937.9 | 943.4 | 943.4 | 944.8 | 948.9 | 946.2 |
| 57.5° | 867.2 | 861.7 | 870.0 | 875.5 | 865.8 | 871.4 | 871.4 | 874.1 | 876.9 | 872.7 |
| 60° | 795.2 | 791.0 | 793.8 | 803.5 | 793.8 | 799.3 | 799.3 | 799.3 | 804.9 | 800.7 |
| 62.5° | 721.7 | 719.0 | 721.7 | 730.1 | 720.4 | 725.9 | 724.5 | 725.9 | 731.4 | 730.1 |
| 65° | 646.9 | 644.2 | 646.9 | 655.3 | 645.6 | 651.1 | 651.1 | 652.5 | 656.6 | 651.1 |
| 67.5° | 573.5 | 569.4 | 573.5 | 580.4 | 572.1 | 576.3 | 576.3 | 576.3 | 583.2 | 580.4 |
| 70° | 498.7 | 495.9 | 498.7 | 505.6 | 498.7 | 501.5 | 501.5 | 501.5 | 508.4 | 509.8 |
| 72.5° | 425.3 | 425.3 | 428.1 | 433.6 | 428.1 | 433.6 | 429.4 | 426.7 | 436.4 | 437.8 |
| 75° | 353.3 | 354.6 | 356.0 | 361.6 | 356.0 | 361.6 | 358.8 | 356.0 | 364.3 | 365.7 |
| 77.5° | 286.8 | 286.8 | 288.1 | 292.3 | 288.1 | 292.3 | 289.5 | 289.5 | 295.1 | 293.7 |
| 80° | 218.9 | 218.9 | 220.3 | 224.4 | 220.3 | 224.4 | 221.6 | 221.6 | 227.2 | 221.6 |
| 82.5° | 159.3 | 159.3 | 159.3 | 163.5 | 160.7 | 163.5 | 162.1 | 159.3 | 166.2 | 160.7 |
| 85° | 102.5 | 103.9 | 103.9 | 105.3 | 103.9 | 105.3 | 105.3 | 103.9 | 108.1 | 103.9 |
| 87.5° | 52.6 | 52.6 | 52.6 | 54.0 | 52.6 | 52.6 | 54.0 | 52.6 | 55.4 | 54.0 |
| 90° | 9.7 | 8.3 | 8.3 | 11.1 | 9.7 | 9.7 | 11.1 | 8.3 | 9.7 | 8.3 |
| 92.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 5.5 | 5.5 |
| 95° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 4.2 |
| 97.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.8 | 2.8 |
| 100° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 102.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 105° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 1.4 | 1.4 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 1.4 |



TEST NUMBER: P893731
 CATALOG NUMBER: 4MB-6SL-FLT-UNV-L840

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 142.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 |
| 145° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 147.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 150° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 152.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 155° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 157.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 160° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 162.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 165° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 167.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 170° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 172.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 175° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 177.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 180° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |



TEST NUMBER: P893731
 CATALOG NUMBER: 4MB-6SL-FLT-UNV-L840

CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 20.54 | 22.18 | 20.91 | 22.49 | 22.81 | 20.68 | 22.31 | 21.04 | 22.63 | 22.95 |
| | 3H | 22.36 | 23.84 | 22.74 | 24.17 | 24.54 | 22.51 | 23.99 | 22.89 | 24.32 | 24.68 |
| | 4H | 23.02 | 24.42 | 23.42 | 24.77 | 25.15 | 23.22 | 24.61 | 23.62 | 24.96 | 25.34 |
| | 6H | 23.48 | 24.77 | 23.89 | 25.14 | 25.53 | 23.77 | 25.07 | 24.19 | 25.43 | 25.83 |
| | 8H | 23.62 | 24.85 | 24.04 | 25.24 | 25.65 | 23.97 | 25.20 | 24.39 | 25.60 | 26.00 |
| | 12H | 23.71 | 24.90 | 24.14 | 25.28 | 25.71 | 24.11 | 25.30 | 24.54 | 25.68 | 26.11 |
| 4H | 2H | 21.17 | 22.57 | 21.57 | 22.92 | 23.30 | 21.28 | 22.68 | 21.68 | 23.03 | 23.41 |
| | 3H | 23.21 | 24.39 | 23.63 | 24.79 | 25.19 | 23.35 | 24.52 | 23.76 | 24.92 | 25.32 |
| | 4H | 24.01 | 25.07 | 24.44 | 25.48 | 25.92 | 24.19 | 25.25 | 24.63 | 25.67 | 26.11 |
| | 6H | 24.58 | 25.51 | 25.04 | 25.95 | 26.41 | 24.89 | 25.81 | 25.34 | 26.26 | 26.71 |
| | 8H | 24.77 | 25.64 | 25.24 | 26.09 | 26.55 | 25.13 | 26.00 | 25.59 | 26.44 | 26.91 |
| | 12H | 24.92 | 25.70 | 25.40 | 26.18 | 26.65 | 25.32 | 26.11 | 25.81 | 26.58 | 27.06 |
| 8H | 4H | 24.34 | 25.21 | 24.80 | 25.65 | 26.12 | 24.50 | 25.37 | 24.96 | 25.82 | 26.28 |
| | 6H | 25.04 | 25.76 | 25.53 | 26.25 | 26.73 | 25.33 | 26.05 | 25.82 | 26.54 | 27.02 |
| | 8H | 25.30 | 25.95 | 25.81 | 26.46 | 26.95 | 25.66 | 26.31 | 26.17 | 26.82 | 27.31 |
| | 12H | 25.52 | 26.10 | 26.03 | 26.59 | 27.15 | 25.94 | 26.52 | 26.45 | 27.01 | 27.57 |
| 12H | 4H | 24.38 | 25.16 | 24.86 | 25.64 | 26.11 | 24.54 | 25.32 | 25.02 | 25.79 | 26.27 |
| | 6H | 25.11 | 25.76 | 25.62 | 26.27 | 26.76 | 25.38 | 26.04 | 25.89 | 26.54 | 27.03 |
| | 8H | 25.44 | 26.01 | 25.94 | 26.50 | 27.07 | 25.78 | 26.36 | 26.29 | 26.85 | 27.41 |