

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: P600884

Luminaire Tested: **8SLSTPSLC-UNV-MID-4000K**

Issue Date: 7/7/2022



Test Information

Test Method: LM-79-08
Report Number: P600884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (220317012-01-002)
Test Lab: INNOVATION CENTER
Issue Date: 7/7/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SLSTPSLC-UNV-MID-4000K
Description: G3 8ft 8SLSTPSLC-UNV 60W at 4000K
Light Source: -
Ballast/Driver: -

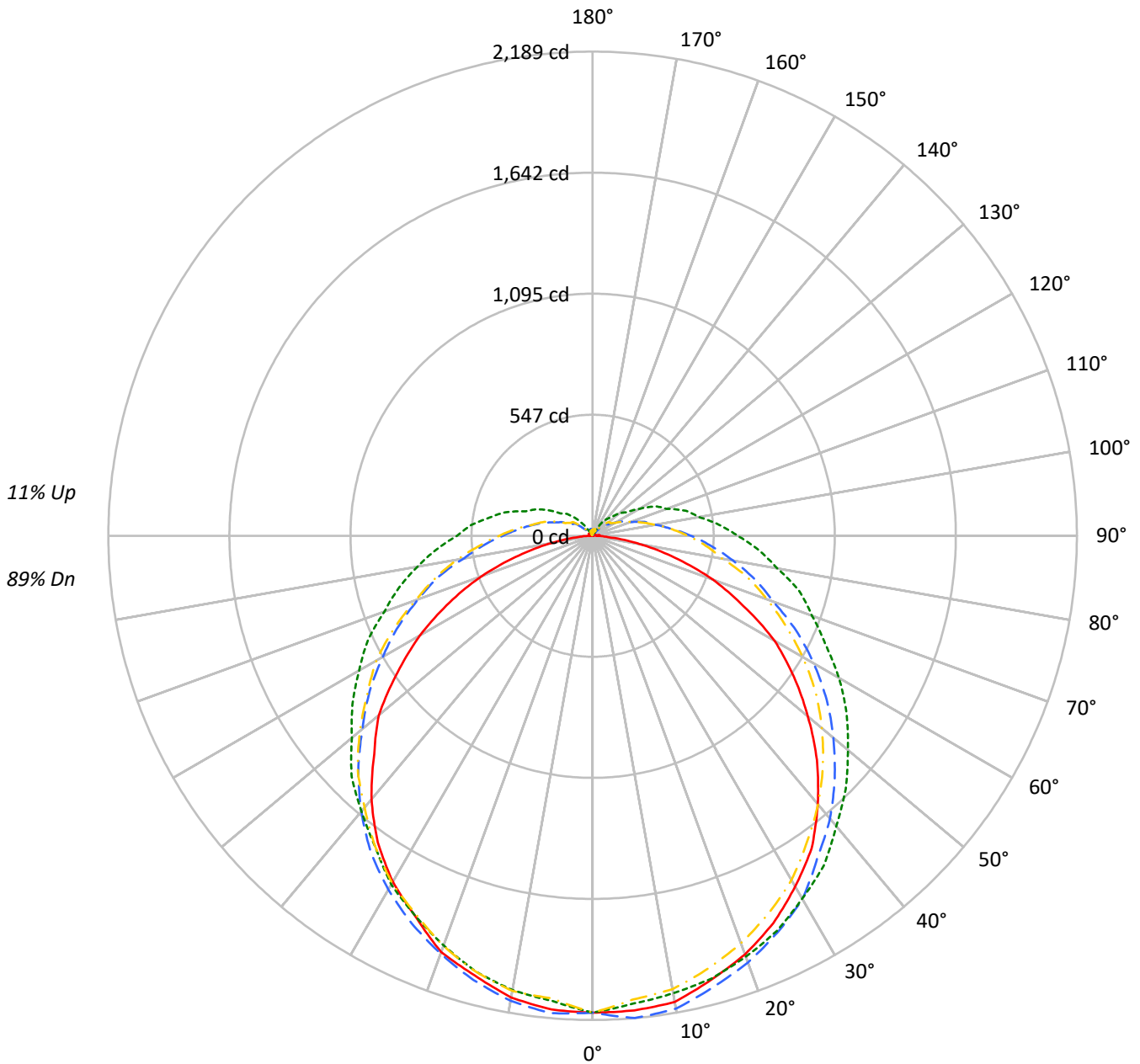
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8140.9 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.22' x L: 8' x H: 0.22')
CIE Type: Semi-Direct

Input Watts (W): 62.5
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: P600884
CATALOG NUMBER: 8SLSTPSLC-UNV-MID-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P600884

CATALOG NUMBER: 8SLSTPSLC-UNV-MID-4000K

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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 98 | 98 | 98 | 92 | 92 | 92 | 89 | | | 89 |
| 1 | 104 | 98 | 93 | 88 | 100 | 95 | 90 | 86 | 88 | 85 | 81 | 83 | 80 | 77 | 77 | 75 | 73 | 70 | | | 70 |
| 2 | 94 | 84 | 77 | 70 | 90 | 82 | 75 | 69 | 76 | 70 | 65 | 71 | 66 | 62 | 67 | 63 | 59 | 56 | | | 56 |
| 3 | 85 | 73 | 65 | 58 | 81 | 71 | 63 | 56 | 66 | 60 | 54 | 62 | 56 | 52 | 58 | 53 | 49 | 47 | | | 47 |
| 4 | 77 | 65 | 55 | 48 | 74 | 63 | 54 | 47 | 59 | 51 | 45 | 55 | 49 | 44 | 52 | 46 | 42 | 39 | | | 39 |
| 5 | 71 | 58 | 48 | 41 | 68 | 56 | 47 | 40 | 52 | 45 | 39 | 49 | 43 | 38 | 46 | 41 | 36 | 34 | | | 34 |
| 6 | 65 | 52 | 42 | 36 | 63 | 50 | 41 | 35 | 47 | 40 | 34 | 44 | 38 | 33 | 42 | 36 | 32 | 29 | | | 29 |
| 7 | 61 | 47 | 38 | 31 | 58 | 45 | 37 | 31 | 43 | 35 | 30 | 40 | 34 | 29 | 38 | 32 | 28 | 26 | | | 26 |
| 8 | 56 | 42 | 34 | 28 | 54 | 41 | 33 | 27 | 39 | 32 | 27 | 37 | 30 | 26 | 35 | 29 | 25 | 23 | | | 23 |
| 9 | 53 | 39 | 31 | 25 | 51 | 38 | 30 | 24 | 36 | 29 | 24 | 34 | 28 | 23 | 32 | 27 | 22 | 20 | | | 20 |
| 10 | 49 | 36 | 28 | 22 | 47 | 35 | 27 | 22 | 33 | 26 | 22 | 31 | 25 | 21 | 30 | 24 | 20 | 18 | | | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 13458 | 13458 | 13458 | 13458 |
| 5° | 13465 | 12231 | 13439 | 12158 |
| 10° | 13500 | 11310 | 13370 | 11234 |
| 15° | 13326 | 10558 | 13203 | 10386 |
| 20° | 13248 | 9855 | 13171 | 9589 |
| 25° | 13143 | 9249 | 12908 | 8897 |
| 30° | 12995 | 8647 | 12819 | 8308 |
| 35° | 12907 | 8152 | 12660 | 7674 |
| 40° | 12617 | 7581 | 12391 | 7193 |
| 45° | 12323 | 7129 | 12002 | 6787 |
| 50° | 11946 | 6662 | 11867 | 6284 |
| 55° | 11628 | 6270 | 11270 | 5927 |
| 60° | 11325 | 5864 | 10739 | 5559 |
| 65° | 10507 | 5440 | 9953 | 5258 |
| 70° | 9779 | 5127 | 9042 | 4864 |
| 75° | 8417 | 4923 | 7539 | 4608 |
| 80° | 6782 | 4549 | 5863 | 4318 |
| 85° | 3885 | 4340 | 3398 | 4066 |



TEST NUMBER: P600884

CATALOG NUMBER: 8SLSTPSLC-UNV-MID-4000K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 204.0 | 2.5 |
| 10°-20° | 585.3 | 7.2 |
| 20°-30° | 892.1 | 11.0 |
| 30°-40° | 1091.2 | 13.4 |
| 40°-50° | 1162.4 | 14.3 |
| 50°-60° | 1109.3 | 13.6 |
| 60°-70° | 954.6 | 11.7 |
| 70°-80° | 735.2 | 9.0 |
| 80°-90° | 513.2 | 6.3 |
| 90°-100° | 349.4 | 4.3 |
| 100°-110° | 232.5 | 2.9 |
| 110°-120° | 145.9 | 1.8 |
| 120°-130° | 86.5 | 1.1 |
| 130°-140° | 44.9 | 0.6 |
| 140°-150° | 17.7 | 0.2 |
| 150°-160° | 9.7 | 0.1 |
| 160°-170° | 5.7 | 0.1 |
| 170°-180° | 1.5 | 0.0 |
| 0°-30° | 1681.4 | 20.7 |
| 0°-40° | 2772.5 | 34.1 |
| 0°-60° | 5044.1 | 62.0 |
| 0°-90° | 7247.2 | 89.0 |
| 90°-120° | 727.8 | 8.9 |
| 90°-150° | 876.9 | 10.8 |
| 90°-180° | 894.0 | 11.0 |
| 0°-180° | 8140.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 2156 | 2156 | 2156 | 2156 | 2156 | |
| 5° | 2154 | 2123 | 2150 | 2111 | 2154 | 205 |
| 15° | 2077 | 2073 | 2058 | 2039 | 2077 | 587 |
| 25° | 1932 | 1971 | 1898 | 1896 | 1932 | 890 |
| 35° | 1726 | 1821 | 1693 | 1714 | 1726 | 1076 |
| 45° | 1434 | 1618 | 1396 | 1540 | 1434 | 1105 |
| 55° | 1110 | 1402 | 1076 | 1325 | 1110 | 993 |
| 65° | 753 | 1161 | 713 | 1122 | 753 | 750 |
| 75° | 384 | 968 | 344 | 906 | 384 | 412 |
| 85° | 71 | 755 | 62 | 708 | 71 | 94 |
| 90° | 17 | 656 | 7 | 612 | 17 | 19 |
| 95° | 31 | 573 | 0 | 551 | 31 | 11 |
| 105° | 4 | 437 | 9 | 410 | 4 | 5 |
| 115° | 8 | 315 | 15 | 283 | 8 | 9 |
| 125° | 10 | 185 | 8 | 176 | 10 | 9 |
| 135° | 14 | 118 | 8 | 116 | 14 | 9 |
| 145° | 12 | 77 | 11 | 9 | 12 | 6 |
| 155° | 8 | 6 | 4 | 16 | 8 | 3 |
| 165° | 9 | 22 | 13 | 28 | 9 | 3 |
| 175° | 13 | 6 | 7 | 18 | 13 | 1 |
| 180° | 13 | 13 | 13 | 13 | 13 | |



TEST NUMBER: P600884

CATALOG NUMBER: 8SLSTPSLC-UNV-MID-4000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 |
| 5° | 2154.0 | 2172.7 | 2118.6 | 2188.6 | 2181.6 | 2157.3 | 2123.2 | 2132.6 | 2138.6 | 2104.1 | 2148.0 |
| 10° | 2140.0 | 2136.8 | 2091.5 | 2170.8 | 2153.6 | 2132.6 | 2099.9 | 2117.6 | 2109.2 | 2081.2 | 2127.9 |
| 15° | 2077.0 | 2103.6 | 2066.3 | 2111.6 | 2113.4 | 2107.4 | 2072.8 | 2070.5 | 2063.0 | 2024.3 | 2079.8 |
| 20° | 2014.0 | 2029.4 | 2004.2 | 2052.7 | 2064.9 | 2065.8 | 2025.2 | 2018.6 | 2003.2 | 1960.3 | 1994.4 |
| 25° | 1932.3 | 1946.8 | 1925.3 | 1978.0 | 1981.3 | 1986.9 | 1971.0 | 1929.9 | 1930.4 | 1883.3 | 1905.2 |
| 30° | 1831.0 | 1846.4 | 1826.8 | 1897.3 | 1904.3 | 1902.9 | 1894.5 | 1868.3 | 1854.3 | 1797.4 | 1820.7 |
| 35° | 1725.9 | 1728.3 | 1742.7 | 1773.1 | 1804.4 | 1823.0 | 1821.2 | 1784.3 | 1761.9 | 1689.5 | 1684.4 |
| 40° | 1583.5 | 1592.0 | 1620.0 | 1669.0 | 1691.4 | 1710.1 | 1713.3 | 1691.4 | 1649.4 | 1585.4 | 1565.3 |
| 45° | 1433.7 | 1443.5 | 1499.0 | 1547.6 | 1584.5 | 1622.3 | 1617.6 | 1587.3 | 1549.9 | 1472.0 | 1432.8 |
| 50° | 1269.8 | 1289.9 | 1357.1 | 1420.6 | 1473.4 | 1495.8 | 1506.0 | 1480.8 | 1430.4 | 1352.5 | 1274.0 |
| 55° | 1109.7 | 1127.9 | 1220.8 | 1290.8 | 1345.0 | 1394.0 | 1401.5 | 1364.1 | 1306.2 | 1229.7 | 1125.6 |
| 60° | 949.6 | 965.9 | 1051.3 | 1153.6 | 1220.3 | 1281.0 | 1285.7 | 1262.8 | 1170.9 | 1095.7 | 989.3 |
| 65° | 752.6 | 817.0 | 905.7 | 1014.9 | 1092.0 | 1180.7 | 1160.6 | 1140.5 | 1067.2 | 962.6 | 833.8 |
| 70° | 575.6 | 638.2 | 751.6 | 866.9 | 987.8 | 1054.6 | 1055.1 | 1038.3 | 959.4 | 837.1 | 706.8 |
| 75° | 384.2 | 485.1 | 620.0 | 758.6 | 874.4 | 944.0 | 968.2 | 930.0 | 830.1 | 724.1 | 564.4 |
| 80° | 217.6 | 305.3 | 485.5 | 643.3 | 756.3 | 823.1 | 846.4 | 827.3 | 719.4 | 594.3 | 456.6 |
| 85° | 71.0 | 210.5 | 374.4 | 538.7 | 660.6 | 742.3 | 755.4 | 711.0 | 639.1 | 513.5 | 338.0 |
| 90° | 17.3 | 120.9 | 282.9 | 444.9 | 559.8 | 634.0 | 655.9 | 632.1 | 550.4 | 429.5 | 259.6 |
| 95° | 31.3 | 85.9 | 222.7 | 355.3 | 482.7 | 542.9 | 572.8 | 557.9 | 471.5 | 354.8 | 213.8 |
| 100° | 2.3 | 35.5 | 163.9 | 289.0 | 404.8 | 469.2 | 487.4 | 483.7 | 405.7 | 285.7 | 155.0 |
| 105° | 3.7 | 50.4 | 113.9 | 242.8 | 331.9 | 414.1 | 437.0 | 404.8 | 331.5 | 230.2 | 102.2 |
| 110° | 7.5 | 26.1 | 76.1 | 178.3 | 283.8 | 343.1 | 356.2 | 341.7 | 279.6 | 184.4 | 86.8 |
| 115° | 7.9 | 21.5 | 76.6 | 154.1 | 218.0 | 280.1 | 315.1 | 265.2 | 210.1 | 149.4 | 78.9 |
| 120° | 13.5 | 22.9 | 59.3 | 119.0 | 190.0 | 201.7 | 243.2 | 225.0 | 171.8 | 115.8 | 64.9 |
| 125° | 10.3 | 19.6 | 56.0 | 92.9 | 134.0 | 176.9 | 184.9 | 178.8 | 147.1 | 98.5 | 47.2 |
| 130° | 7.0 | 23.3 | 37.3 | 69.6 | 123.7 | 157.3 | 158.3 | 147.5 | 117.2 | 97.1 | 25.2 |
| 135° | 13.5 | 20.5 | 28.5 | 55.6 | 102.2 | 117.2 | 118.1 | 119.5 | 98.0 | 71.4 | 20.1 |
| 140° | 15.4 | 19.1 | 20.1 | 27.5 | 66.3 | 91.5 | 97.6 | 83.6 | 85.4 | 42.0 | 22.4 |
| 145° | 11.7 | 22.4 | 33.1 | 18.2 | 34.5 | 71.4 | 76.6 | 80.3 | 53.2 | 14.0 | 29.9 |
| 150° | 0.0 | 20.1 | 37.3 | 22.9 | 21.0 | 15.9 | 23.3 | 21.0 | 12.1 | 26.1 | 40.1 |
| 155° | 7.9 | 7.0 | 31.7 | 22.9 | 25.2 | 11.2 | 5.6 | 18.7 | 17.3 | 27.5 | 31.3 |
| 160° | 8.4 | 8.9 | 12.1 | 14.5 | 26.1 | 26.6 | 29.4 | 42.0 | 27.1 | 31.7 | 12.1 |
| 165° | 9.3 | 16.3 | 10.3 | 13.5 | 28.9 | 15.4 | 21.5 | 33.6 | 21.9 | 12.1 | 22.4 |
| 170° | 9.3 | 17.7 | 3.7 | 5.1 | 14.5 | 10.7 | 26.6 | 17.3 | 23.8 | 15.4 | 10.7 |
| 175° | 13.1 | 18.2 | 13.1 | 11.7 | 24.3 | 19.6 | 6.5 | 1.4 | 14.0 | 30.3 | 0.0 |
| 180° | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |



TEST NUMBER: P600884

CATALOG NUMBER: 8SLSTPSLC-UNV-MID-4000K

CANDELA DISTRIBUTION (continued):

| | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 | 2156.0 |
| 5° | 2127.4 | 2149.8 | 2168.5 | 2134.4 | 2166.6 | 2170.4 | 2167.6 | 2110.6 | 2137.2 | 2133.0 | 2099.4 |
| 10° | 2116.2 | 2119.5 | 2129.8 | 2092.9 | 2134.9 | 2139.6 | 2145.6 | 2085.9 | 2107.4 | 2114.4 | 2089.6 |
| 15° | 2049.9 | 2057.9 | 2088.2 | 2041.5 | 2079.8 | 2090.5 | 2090.5 | 2039.2 | 2066.3 | 2052.3 | 2040.6 |
| 20° | 2007.0 | 2002.3 | 2015.4 | 1981.3 | 2010.2 | 2014.4 | 2039.7 | 1970.6 | 2015.4 | 2011.2 | 1973.4 |
| 25° | 1909.9 | 1897.7 | 1909.9 | 1909.9 | 1934.1 | 1949.6 | 1969.2 | 1895.9 | 1946.3 | 1932.7 | 1888.4 |
| 30° | 1821.2 | 1806.2 | 1810.4 | 1817.0 | 1846.8 | 1855.3 | 1893.1 | 1820.2 | 1864.6 | 1848.7 | 1812.3 |
| 35° | 1702.6 | 1692.8 | 1689.5 | 1717.1 | 1747.9 | 1753.5 | 1793.2 | 1714.3 | 1770.3 | 1740.4 | 1714.3 |
| 40° | 1555.1 | 1555.1 | 1561.6 | 1602.2 | 1626.5 | 1659.2 | 1701.7 | 1625.6 | 1673.6 | 1642.8 | 1603.2 |
| 45° | 1424.8 | 1396.3 | 1393.1 | 1459.8 | 1497.6 | 1538.3 | 1580.7 | 1540.1 | 1570.0 | 1525.7 | 1501.4 |
| 50° | 1260.0 | 1261.4 | 1236.2 | 1299.7 | 1358.1 | 1418.3 | 1460.3 | 1420.6 | 1454.7 | 1423.9 | 1372.5 |
| 55° | 1095.2 | 1075.6 | 1069.1 | 1160.1 | 1231.5 | 1311.4 | 1339.4 | 1324.9 | 1341.3 | 1322.6 | 1242.3 |
| 60° | 922.5 | 900.5 | 917.4 | 1015.9 | 1094.8 | 1190.0 | 1230.1 | 1218.9 | 1204.5 | 1177.9 | 1128.4 |
| 65° | 756.3 | 712.9 | 752.6 | 865.1 | 968.2 | 1062.1 | 1106.4 | 1121.8 | 1103.6 | 1065.3 | 989.3 |
| 70° | 570.5 | 532.2 | 586.4 | 706.3 | 837.1 | 933.2 | 985.5 | 1000.9 | 990.2 | 939.3 | 848.7 |
| 75° | 406.6 | 344.1 | 427.6 | 577.0 | 722.7 | 815.6 | 881.4 | 906.2 | 880.0 | 840.3 | 734.8 |
| 80° | 277.3 | 188.1 | 286.2 | 450.0 | 590.6 | 713.8 | 774.5 | 803.4 | 780.1 | 713.3 | 619.5 |
| 85° | 177.9 | 62.1 | 177.4 | 334.3 | 493.9 | 618.1 | 677.9 | 707.7 | 685.8 | 627.9 | 511.7 |
| 90° | 96.2 | 7.0 | 113.9 | 261.0 | 406.2 | 515.9 | 599.4 | 612.5 | 594.8 | 522.9 | 422.0 |
| 95° | 66.3 | 0.5 | 65.8 | 183.0 | 334.7 | 446.8 | 513.1 | 551.3 | 526.1 | 451.9 | 347.8 |
| 100° | 41.1 | 16.8 | 41.1 | 145.2 | 276.8 | 378.1 | 437.4 | 472.4 | 444.4 | 375.3 | 280.1 |
| 105° | 36.4 | 8.9 | 38.3 | 118.1 | 225.0 | 306.3 | 372.1 | 409.9 | 380.5 | 323.5 | 235.8 |
| 110° | 27.1 | 4.2 | 19.6 | 87.8 | 176.0 | 271.7 | 307.7 | 321.7 | 319.3 | 263.8 | 189.5 |
| 115° | 21.9 | 15.4 | 0.0 | 77.5 | 144.3 | 216.2 | 247.9 | 282.9 | 268.0 | 211.0 | 135.4 |
| 120° | 16.8 | 19.6 | 18.2 | 43.4 | 105.5 | 176.0 | 203.1 | 230.6 | 203.1 | 180.7 | 115.8 |
| 125° | 25.7 | 8.4 | 30.3 | 13.5 | 96.6 | 151.7 | 176.0 | 175.5 | 176.9 | 146.1 | 108.3 |
| 130° | 15.4 | 2.3 | 32.2 | 7.5 | 43.0 | 110.6 | 139.6 | 155.0 | 145.7 | 118.6 | 64.0 |
| 135° | 19.6 | 7.9 | 19.1 | 22.9 | 18.7 | 69.6 | 123.2 | 116.2 | 123.7 | 87.8 | 12.1 |
| 140° | 7.9 | 6.5 | 21.0 | 19.1 | 14.0 | 10.7 | 34.1 | 74.7 | 45.3 | 1.4 | 8.9 |
| 145° | 28.5 | 11.2 | 26.1 | 35.0 | 18.2 | 24.3 | 19.6 | 9.3 | 22.9 | 0.5 | 2.8 |
| 150° | 21.9 | 0.0 | 17.7 | 36.9 | 21.0 | 10.3 | 4.2 | 3.7 | 0.0 | 8.4 | 17.7 |
| 155° | 20.1 | 3.7 | 33.1 | 34.5 | 21.9 | 40.6 | 25.2 | 15.9 | 25.7 | 29.4 | 22.9 |
| 160° | 21.9 | 10.7 | 17.3 | 30.3 | 32.2 | 28.5 | 35.0 | 30.8 | 24.3 | 28.5 | 23.3 |
| 165° | 28.0 | 12.6 | 8.9 | 27.5 | 26.1 | 26.1 | 22.4 | 27.5 | 20.1 | 26.1 | 9.3 |
| 170° | 15.4 | 15.4 | 26.6 | 15.4 | 30.8 | 24.3 | 30.3 | 17.3 | 16.8 | 14.5 | 17.3 |
| 175° | 11.2 | 7.0 | 16.8 | 12.6 | 18.2 | 14.9 | 21.5 | 17.7 | 19.1 | 13.5 | 27.5 |
| 180° | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |



TEST NUMBER: P600884

CATALOG NUMBER: 8SLSTPSLC-UNV-MID-4000K

CANDELA DISTRIBUTION (continued):

| | 330° | 345° | 360° |
|------|--------|--------|--------|
| 0° | 2156.0 | 2156.0 | 2156.0 |
| 5° | 2156.4 | 2136.8 | 2154.0 |
| 10° | 2117.6 | 2117.6 | 2140.0 |
| 15° | 2067.2 | 2084.9 | 2077.0 |
| 20° | 2010.2 | 2016.3 | 2014.0 |
| 25° | 1935.5 | 1935.5 | 1932.3 |
| 30° | 1837.0 | 1841.7 | 1831.0 |
| 35° | 1736.2 | 1731.5 | 1725.9 |
| 40° | 1597.1 | 1600.4 | 1583.5 |
| 45° | 1470.1 | 1472.4 | 1433.7 |
| 50° | 1326.3 | 1313.7 | 1269.8 |
| 55° | 1175.1 | 1152.6 | 1109.7 |
| 60° | 1030.8 | 968.7 | 949.6 |
| 65° | 887.9 | 804.8 | 752.6 |
| 70° | 735.8 | 646.6 | 575.6 |
| 75° | 590.1 | 459.8 | 384.2 |
| 80° | 466.8 | 322.6 | 217.6 |
| 85° | 366.0 | 190.5 | 71.0 |
| 90° | 282.4 | 122.3 | 17.3 |
| 95° | 209.6 | 61.6 | 31.3 |
| 100° | 155.5 | 39.7 | 2.3 |
| 105° | 113.4 | 36.4 | 3.7 |
| 110° | 83.6 | 22.4 | 7.5 |
| 115° | 81.2 | 25.7 | 7.9 |
| 120° | 51.8 | 21.5 | 13.5 |
| 125° | 16.3 | 31.3 | 10.3 |
| 130° | 4.7 | 7.9 | 7.0 |
| 135° | 25.7 | 18.2 | 13.5 |
| 140° | 26.1 | 16.8 | 15.4 |
| 145° | 23.8 | 28.0 | 11.7 |
| 150° | 16.3 | 24.3 | 0.0 |
| 155° | 26.1 | 17.3 | 7.9 |
| 160° | 13.5 | 12.1 | 8.4 |
| 165° | 21.9 | 17.7 | 9.3 |
| 170° | 22.4 | 10.3 | 9.3 |
| 175° | 6.5 | 8.9 | 13.1 |
| 180° | 13.3 | 13.3 | 13.3 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°











(END OF REPORT)