

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: NEO-RAY

Report Number: P1051222

Luminaire Tested: S122DS-B865DB2750-4F0-XX-W2A-W\_2700K

Issue Date: 7/9/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1051222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-143-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/9/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S122DS-B865DB2750-4F0-XX-W2A-W\_2700K  
Description: Define 2 Direct Surface with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3901.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 0.9 / 1.12  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct

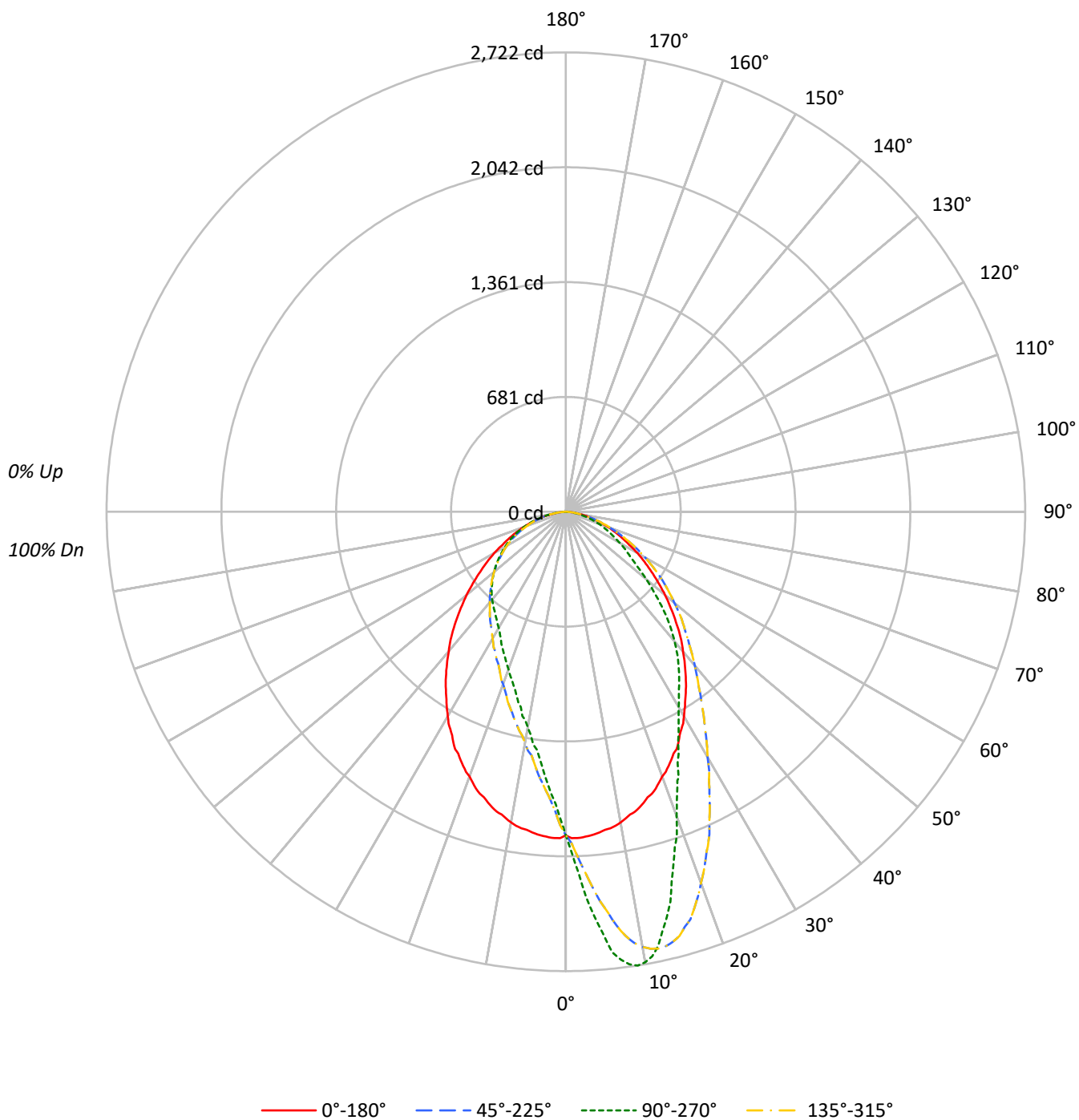
Input Watts (W): 46.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P1051222

CATALOG NUMBER: S122DS-B865DB2750-4F0-XX-W2A-W\_2700K

### Luminous Intensity Polar Plot



TEST NUMBER: P1051222

CATALOG NUMBER: S122DS-B865DB2750-4F0-XX-W2A-W\_2700K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 101 | 94  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 74  |    |    |
| 3   | 93  | 83  | 76  | 70  | 91  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  |    |    |
| 4   | 86  | 75  | 67  | 60  | 83  | 73  | 66  | 60  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 58  | 56  |    |    |
| 5   | 79  | 67  | 59  | 53  | 77  | 66  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 49  |    |    |
| 6   | 74  | 61  | 53  | 47  | 72  | 60  | 52  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 46  | 44  |    |    |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 47  | 42  | 54  | 47  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 39  |    |    |
| 8   | 64  | 51  | 43  | 38  | 63  | 51  | 43  | 38  | 50  | 43  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |
| 9   | 60  | 48  | 40  | 35  | 59  | 47  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |
| 10  | 57  | 44  | 37  | 32  | 55  | 44  | 36  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 30  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  | 270°  |
|-----|-------|-------|-------|-------|
| 0°  | 30349 | 30349 | 30349 | 30349 |
| 5°  | 30507 | 39804 | 30507 | 24415 |
| 10° | 30054 | 43569 | 30054 | 20841 |
| 15° | 29239 | 39194 | 29239 | 18485 |
| 20° | 28125 | 32341 | 28125 | 16759 |
| 25° | 27135 | 27641 | 27135 | 15536 |
| 30° | 25578 | 24447 | 25578 | 14548 |
| 35° | 23987 | 22611 | 23987 | 14132 |
| 40° | 22327 | 20695 | 22327 | 14049 |
| 45° | 20649 | 18231 | 20649 | 13864 |
| 50° | 18918 | 15349 | 18918 | 13695 |
| 55° | 17091 | 12910 | 17091 | 13457 |
| 60° | 15519 | 11638 | 15519 | 13183 |
| 65° | 13821 | 10562 | 13821 | 12930 |
| 70° | 12441 | 9516  | 12441 | 12260 |
| 75° | 10636 | 8299  | 10636 | 11204 |
| 80° | 8651  | 6964  | 8651  | 9371  |
| 85° | 6466  | 5267  | 6466  | 6702  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 32921 cd/sqm

TEST NUMBER: P1051222

CATALOG NUMBER: S122DS-B865DB2750-4F0-XX-W2A-W\_2700K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 188.7  | 4.8       |
| 10°-20°   | 517.9  | 13.3      |
| 20°-30°   | 679.1  | 17.4      |
| 30°-40°   | 717.8  | 18.4      |
| 40°-50°   | 666.4  | 17.1      |
| 50°-60°   | 533.4  | 13.7      |
| 60°-70°   | 364.8  | 9.4       |
| 70°-80°   | 188.2  | 4.8       |
| 80°-90°   | 44.7   | 1.1       |
| 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°    | 1385.7 | 35.5      |
| 0°-40°    | 2103.4 | 53.9      |
| 0°-60°    | 3303.2 | 84.7      |
| 0°-90°    | 3901.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3901.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1917 | 1917 | 1917 | 1917 | 1917 |      |
| 5°  | 1920 | 2505 | 1920 | 1536 | 1920 | 182  |
| 15° | 1784 | 2392 | 1784 | 1128 | 1784 | 501  |
| 25° | 1554 | 1583 | 1554 | 890  | 1554 | 710  |
| 35° | 1241 | 1170 | 1241 | 731  | 1241 | 775  |
| 45° | 922  | 814  | 922  | 619  | 922  | 712  |
| 55° | 619  | 468  | 619  | 488  | 619  | 557  |
| 65° | 369  | 282  | 369  | 345  | 369  | 367  |
| 75° | 174  | 136  | 174  | 183  | 174  | 186  |
| 85° | 36   | 29   | 36   | 37   | 36   | 44   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1051222

CATALOG NUMBER: S122DS-B865DB2750-4F0-XX-W2A-W\_2700K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   | 202.5° | 225°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1917.3 | 1917.3 | 1917.3 | 1917.3 | 1917.3 | 1917.3 | 1917.3 | 1917.3 | 1917.3 | 1917.3 | 1917.3 |
| 1°    | 1934.4 | 1968.7 | 1966.0 | 2012.2 | 2022.7 | 2012.2 | 1966.0 | 1968.7 | 1934.4 | 1896.2 | 1860.6 |
| 2°    | 1934.4 | 2012.2 | 2047.7 | 2120.2 | 2141.3 | 2120.2 | 2047.7 | 2012.2 | 1934.4 | 1852.7 | 1778.9 |
| 3°    | 1931.8 | 2050.4 | 2134.7 | 2234.9 | 2284.9 | 2234.9 | 2134.7 | 2050.4 | 1931.8 | 1813.2 | 1711.7 |
| 4°    | 1925.2 | 2089.9 | 2223.0 | 2356.1 | 2400.9 | 2356.1 | 2223.0 | 2089.9 | 1925.2 | 1775.0 | 1660.3 |
| 5°    | 1919.9 | 2140.0 | 2315.2 | 2476.0 | 2505.0 | 2476.0 | 2315.2 | 2140.0 | 1919.9 | 1738.1 | 1610.3 |
| 6°    | 1910.7 | 2190.1 | 2389.0 | 2565.6 | 2624.9 | 2565.6 | 2389.0 | 2190.1 | 1910.7 | 1702.5 | 1565.5 |
| 7°    | 1898.8 | 2223.0 | 2472.0 | 2636.8 | 2673.7 | 2636.8 | 2472.0 | 2223.0 | 1898.8 | 1661.6 | 1508.8 |
| 8°    | 1893.6 | 2277.0 | 2537.9 | 2693.4 | 2707.9 | 2693.4 | 2537.9 | 2277.0 | 1893.6 | 1623.4 | 1458.7 |
| 9°    | 1884.3 | 2299.4 | 2585.4 | 2710.6 | 2722.4 | 2710.6 | 2585.4 | 2299.4 | 1884.3 | 1603.7 | 1433.7 |
| 10°   | 1869.8 | 2333.7 | 2619.6 | 2715.8 | 2710.6 | 2715.8 | 2619.6 | 2333.7 | 1869.8 | 1562.8 | 1391.5 |
| 11°   | 1851.4 | 2373.2 | 2638.1 | 2696.1 | 2682.9 | 2696.1 | 2638.1 | 2373.2 | 1851.4 | 1529.9 | 1353.3 |
| 12°   | 1834.3 | 2400.9 | 2646.0 | 2659.2 | 2630.2 | 2659.2 | 2646.0 | 2400.9 | 1834.3 | 1500.9 | 1326.9 |
| 13°   | 1823.7 | 2412.7 | 2640.7 | 2613.0 | 2548.5 | 2613.0 | 2640.7 | 2412.7 | 1823.7 | 1467.9 | 1294.0 |
| 14°   | 1805.3 | 2439.1 | 2626.2 | 2541.9 | 2474.7 | 2541.9 | 2626.2 | 2439.1 | 1805.3 | 1431.0 | 1263.7 |
| 15°   | 1784.2 | 2447.0 | 2602.5 | 2469.4 | 2391.7 | 2469.4 | 2602.5 | 2447.0 | 1784.2 | 1400.7 | 1232.1 |
| 16°   | 1759.2 | 2456.2 | 2559.0 | 2379.8 | 2275.7 | 2379.8 | 2559.0 | 2456.2 | 1759.2 | 1366.5 | 1203.1 |
| 17°   | 1746.0 | 2461.5 | 2526.1 | 2291.5 | 2179.5 | 2291.5 | 2526.1 | 2461.5 | 1746.0 | 1340.1 | 1178.0 |
| 18°   | 1724.9 | 2457.6 | 2466.8 | 2217.7 | 2091.2 | 2217.7 | 2466.8 | 2457.6 | 1724.9 | 1309.8 | 1141.1 |
| 19°   | 1695.9 | 2448.3 | 2407.5 | 2124.2 | 2021.4 | 2124.2 | 2407.5 | 2448.3 | 1695.9 | 1280.8 | 1113.5 |
| 20°   | 1669.6 | 2444.4 | 2341.6 | 2038.5 | 1919.9 | 2038.5 | 2341.6 | 2444.4 | 1669.6 | 1254.5 | 1087.1 |
| 21°   | 1651.1 | 2431.2 | 2281.0 | 1956.8 | 1835.6 | 1956.8 | 2281.0 | 2431.2 | 1651.1 | 1229.4 | 1067.4 |
| 22.5° | 1610.3 | 2406.2 | 2179.5 | 1831.6 | 1724.9 | 1831.6 | 2179.5 | 2406.2 | 1610.3 | 1187.3 | 1023.9 |
| 23°   | 1598.4 | 2398.3 | 2153.2 | 1802.6 | 1711.7 | 1802.6 | 2153.2 | 2398.3 | 1598.4 | 1178.0 | 1009.4 |
| 24°   | 1568.1 | 2373.2 | 2091.2 | 1724.9 | 1628.7 | 1724.9 | 2091.2 | 2373.2 | 1568.1 | 1149.1 | 985.7  |
| 25°   | 1553.6 | 2349.5 | 2014.8 | 1661.6 | 1582.6 | 1661.6 | 2014.8 | 2349.5 | 1553.6 | 1122.7 | 969.8  |
| 26°   | 1522.0 | 2315.2 | 1946.3 | 1608.9 | 1518.0 | 1608.9 | 1946.3 | 2315.2 | 1522.0 | 1099.0 | 944.8  |
| 27°   | 1485.1 | 2290.2 | 1875.1 | 1547.0 | 1470.6 | 1547.0 | 1875.1 | 2290.2 | 1485.1 | 1073.9 | 925.0  |
| 28°   | 1458.7 | 2249.4 | 1806.6 | 1498.2 | 1424.5 | 1498.2 | 1806.6 | 2249.4 | 1458.7 | 1046.3 | 910.5  |
| 29°   | 1433.7 | 2217.7 | 1751.3 | 1441.6 | 1377.0 | 1441.6 | 1751.3 | 2217.7 | 1433.7 | 1022.6 | 888.1  |
| 30°   | 1399.4 | 2175.6 | 1681.4 | 1396.8 | 1337.5 | 1396.8 | 1681.4 | 2175.6 | 1399.4 | 994.9  | 868.4  |
| 32.5° | 1317.7 | 2075.4 | 1539.1 | 1296.6 | 1246.6 | 1296.6 | 1539.1 | 2075.4 | 1317.7 | 939.5  | 820.9  |
| 35°   | 1241.3 | 1963.4 | 1408.6 | 1203.1 | 1170.1 | 1203.1 | 1408.6 | 1963.4 | 1241.3 | 880.2  | 782.7  |
| 37.5° | 1160.9 | 1846.1 | 1290.0 | 1121.4 | 1089.8 | 1121.4 | 1290.0 | 1846.1 | 1160.9 | 826.2  | 739.2  |
| 40°   | 1080.5 | 1730.2 | 1188.6 | 1043.6 | 1001.5 | 1043.6 | 1188.6 | 1730.2 | 1080.5 | 773.5  | 701.0  |
| 42.5° | 1005.4 | 1594.4 | 1089.8 | 961.9  | 913.2  | 961.9  | 1089.8 | 1594.4 | 1005.4 | 723.4  | 664.1  |
| 45°   | 922.4  | 1470.6 | 1001.5 | 876.3  | 814.4  | 876.3  | 1001.5 | 1470.6 | 922.4  | 676.0  | 627.2  |
| 47.5° | 843.3  | 1342.8 | 925.0  | 790.6  | 711.6  | 790.6  | 925.0  | 1342.8 | 843.3  | 628.6  | 591.7  |
| 50°   | 768.2  | 1218.9 | 839.4  | 694.4  | 623.3  | 694.4  | 839.4  | 1218.9 | 768.2  | 585.1  | 554.8  |
| 52.5° | 691.8  | 1102.9 | 764.3  | 607.5  | 536.3  | 607.5  | 764.3  | 1102.9 | 691.8  | 545.5  | 519.2  |
| 55°   | 619.3  | 981.7  | 689.2  | 523.1  | 467.8  | 523.1  | 689.2  | 981.7  | 619.3  | 499.4  | 478.3  |
| 57.5° | 552.1  | 865.7  | 615.4  | 457.2  | 420.4  | 457.2  | 615.4  | 865.7  | 552.1  | 454.6  | 441.4  |
| 60°   | 490.2  | 759.0  | 542.9  | 396.6  | 367.6  | 396.6  | 542.9  | 759.0  | 490.2  | 411.1  | 404.5  |
| 62.5° | 423.0  | 662.8  | 474.4  | 345.2  | 320.2  | 345.2  | 474.4  | 662.8  | 423.0  | 369.0  | 366.3  |
| 65°   | 369.0  | 565.3  | 403.2  | 299.1  | 282.0  | 299.1  | 403.2  | 565.3  | 369.0  | 326.8  | 325.5  |



TEST NUMBER: P1051222

CATALOG NUMBER: S122DS-B865DB2750-4F0-XX-W2A-W\_2700K

**CANDELA DISTRIBUTION (continued):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  | 202.5° | 225°  |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 314.9 | 473.1 | 341.3 | 255.6 | 242.5 | 255.6  | 341.3 | 473.1  | 314.9 | 284.6  | 284.6 |
| 70°   | 268.8 | 390.0 | 282.0 | 216.1 | 205.6 | 216.1  | 282.0 | 390.0  | 268.8 | 242.5  | 243.8 |
| 72.5° | 217.4 | 313.6 | 229.3 | 176.6 | 167.4 | 176.6  | 229.3 | 313.6  | 217.4 | 202.9  | 206.9 |
| 75°   | 173.9 | 247.7 | 180.5 | 142.3 | 135.7 | 142.3  | 180.5 | 247.7  | 173.9 | 162.1  | 167.4 |
| 77.5° | 133.1 | 181.8 | 133.1 | 109.4 | 104.1 | 109.4  | 133.1 | 181.8  | 133.1 | 126.5  | 131.8 |
| 80°   | 94.9  | 127.8 | 94.9  | 77.7  | 76.4  | 77.7   | 94.9  | 127.8  | 94.9  | 90.9   | 97.5  |
| 82.5° | 63.3  | 81.7  | 61.9  | 52.7  | 50.1  | 52.7   | 61.9  | 81.7   | 63.3  | 61.9   | 64.6  |
| 85°   | 35.6  | 44.8  | 34.3  | 30.3  | 29.0  | 30.3   | 34.3  | 44.8   | 35.6  | 35.6   | 38.2  |
| 87.5° | 15.8  | 17.1  | 14.5  | 13.2  | 11.9  | 13.2   | 14.5  | 17.1   | 15.8  | 17.1   | 17.1  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

TEST NUMBER: P1051222

CATALOG NUMBER: S122DS-B865DB2750-4F0-XX-W2A-W\_2700K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°   | 292.5° | 315°   | 337.5° | 360°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 1917.3 | 1917.3 | 1917.3 | 1917.3 | 1917.3 | 1917.3 |
| 1°    | 1838.2 | 1819.8 | 1838.2 | 1860.6 | 1896.2 | 1934.4 |
| 2°    | 1759.2 | 1734.1 | 1759.2 | 1778.9 | 1852.7 | 1934.4 |
| 3°    | 1676.1 | 1672.2 | 1676.1 | 1711.7 | 1813.2 | 1931.8 |
| 4°    | 1622.1 | 1603.7 | 1622.1 | 1660.3 | 1775.0 | 1925.2 |
| 5°    | 1557.5 | 1536.5 | 1557.5 | 1610.3 | 1738.1 | 1919.9 |
| 6°    | 1502.2 | 1473.2 | 1502.2 | 1565.5 | 1702.5 | 1910.7 |
| 7°    | 1440.3 | 1419.2 | 1440.3 | 1508.8 | 1661.6 | 1898.8 |
| 8°    | 1416.6 | 1391.5 | 1416.6 | 1458.7 | 1623.4 | 1893.6 |
| 9°    | 1363.8 | 1336.2 | 1363.8 | 1433.7 | 1603.7 | 1884.3 |
| 10°   | 1330.9 | 1296.6 | 1330.9 | 1391.5 | 1562.8 | 1869.8 |
| 11°   | 1291.4 | 1258.4 | 1291.4 | 1353.3 | 1529.9 | 1851.4 |
| 12°   | 1267.6 | 1238.7 | 1267.6 | 1326.9 | 1500.9 | 1834.3 |
| 13°   | 1225.5 | 1188.6 | 1225.5 | 1294.0 | 1467.9 | 1823.7 |
| 14°   | 1195.2 | 1163.5 | 1195.2 | 1263.7 | 1431.0 | 1805.3 |
| 15°   | 1157.0 | 1128.0 | 1157.0 | 1232.1 | 1400.7 | 1784.2 |
| 16°   | 1131.9 | 1093.7 | 1131.9 | 1203.1 | 1366.5 | 1759.2 |
| 17°   | 1093.7 | 1068.7 | 1093.7 | 1178.0 | 1340.1 | 1746.0 |
| 18°   | 1066.0 | 1042.3 | 1066.0 | 1141.1 | 1309.8 | 1724.9 |
| 19°   | 1046.3 | 1018.6 | 1046.3 | 1113.5 | 1280.8 | 1695.9 |
| 20°   | 1018.6 | 994.9  | 1018.6 | 1087.1 | 1254.5 | 1669.6 |
| 21°   | 992.2  | 971.2  | 992.2  | 1067.4 | 1229.4 | 1651.1 |
| 22.5° | 967.2  | 938.2  | 967.2  | 1023.9 | 1187.3 | 1610.3 |
| 23°   | 952.7  | 929.0  | 952.7  | 1009.4 | 1178.0 | 1598.4 |
| 24°   | 935.6  | 907.9  | 935.6  | 985.7  | 1149.1 | 1568.1 |
| 25°   | 913.2  | 889.5  | 913.2  | 969.8  | 1122.7 | 1553.6 |
| 26°   | 893.4  | 871.0  | 893.4  | 944.8  | 1099.0 | 1522.0 |
| 27°   | 873.6  | 846.0  | 873.6  | 925.0  | 1073.9 | 1485.1 |
| 28°   | 856.5  | 830.2  | 856.5  | 910.5  | 1046.3 | 1458.7 |
| 29°   | 834.1  | 809.1  | 834.1  | 888.1  | 1022.6 | 1433.7 |
| 30°   | 818.3  | 795.9  | 818.3  | 868.4  | 994.9  | 1399.4 |
| 32.5° | 774.8  | 761.6  | 774.8  | 820.9  | 939.5  | 1317.7 |
| 35°   | 737.9  | 731.3  | 737.9  | 782.7  | 880.2  | 1241.3 |
| 37.5° | 710.3  | 705.0  | 710.3  | 739.2  | 826.2  | 1160.9 |
| 40°   | 678.6  | 679.9  | 678.6  | 701.0  | 773.5  | 1080.5 |
| 42.5° | 648.3  | 651.0  | 648.3  | 664.1  | 723.4  | 1005.4 |
| 45°   | 619.3  | 619.3  | 619.3  | 627.2  | 676.0  | 922.4  |
| 47.5° | 586.4  | 589.0  | 586.4  | 591.7  | 628.6  | 843.3  |
| 50°   | 553.4  | 556.1  | 553.4  | 554.8  | 585.1  | 768.2  |
| 52.5° | 519.2  | 521.8  | 519.2  | 519.2  | 545.5  | 691.8  |
| 55°   | 482.3  | 487.6  | 482.3  | 478.3  | 499.4  | 619.3  |
| 57.5° | 444.1  | 450.7  | 444.1  | 441.4  | 454.6  | 552.1  |
| 60°   | 409.8  | 416.4  | 409.8  | 404.5  | 411.1  | 490.2  |
| 62.5° | 374.2  | 380.8  | 374.2  | 366.3  | 369.0  | 423.0  |
| 65°   | 337.3  | 345.2  | 337.3  | 325.5  | 326.8  | 369.0  |



TEST NUMBER: P1051222

CATALOG NUMBER: S122DS-B865DB2750-4F0-XX-W2A-W\_2700K

**CANDELA DISTRIBUTION (continued):**

|       | 247.5° | 270°  | 292.5° | 315°  | 337.5° | 360°  |
|-------|--------|-------|--------|-------|--------|-------|
| 67.5° | 297.8  | 304.4 | 297.8  | 284.6 | 284.6  | 314.9 |
| 70°   | 259.6  | 264.9 | 259.6  | 243.8 | 242.5  | 268.8 |
| 72.5° | 220.1  | 225.3 | 220.1  | 206.9 | 202.9  | 217.4 |
| 75°   | 179.2  | 183.2 | 179.2  | 167.4 | 162.1  | 173.9 |
| 77.5° | 142.3  | 142.3 | 142.3  | 131.8 | 126.5  | 133.1 |
| 80°   | 102.8  | 102.8 | 102.8  | 97.5  | 90.9   | 94.9  |
| 82.5° | 68.5   | 68.5  | 68.5   | 64.6  | 61.9   | 63.3  |
| 85°   | 38.2   | 36.9  | 38.2   | 38.2  | 35.6   | 35.6  |
| 87.5° | 14.5   | 15.8  | 14.5   | 17.1  | 17.1   | 15.8  |
| 90°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

TEST NUMBER: P1051222

CATALOG NUMBER: S122DS-B865DB2750-4F0-XX-W2A-W\_2700K

**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 | 22.72            | 24.24 | 23.09 | 24.56 | 24.87 | 20.03          | 21.56 | 20.40 | 21.87 | 22.18 |
|                 | 3H   | 23.94            | 25.30 | 24.31 | 25.63 | 25.99 | 21.36          | 22.73 | 21.74 | 23.05 | 23.42 |
|                 | 4H   | 24.33            | 25.61 | 24.73 | 25.96 | 26.34 | 21.82          | 23.10 | 22.22 | 23.45 | 23.83 |
|                 | 6H   | 24.57            | 25.76 | 24.99 | 26.12 | 26.52 | 22.12          | 23.31 | 22.53 | 23.67 | 24.07 |
|                 | 8H   | 24.63            | 25.76 | 25.06 | 26.15 | 26.55 | 22.20          | 23.33 | 22.63 | 23.72 | 24.12 |
|                 | 12H  | 24.66            | 25.74 | 25.09 | 26.12 | 26.55 | 22.24          | 23.32 | 22.67 | 23.71 | 24.14 |
| 4H              | 2H   | 23.01            | 24.29 | 23.41 | 24.64 | 25.02 | 21.00          | 22.28 | 21.40 | 22.63 | 23.01 |
|                 | 3H   | 24.50            | 25.57 | 24.91 | 25.97 | 26.37 | 22.46          | 23.53 | 22.87 | 23.93 | 24.33 |
|                 | 4H   | 25.06            | 26.02 | 25.49 | 26.43 | 26.87 | 22.98          | 23.94 | 23.41 | 24.35 | 24.79 |
|                 | 6H   | 25.43            | 26.26 | 25.88 | 26.70 | 27.16 | 23.35          | 24.19 | 23.81 | 24.63 | 25.09 |
|                 | 8H   | 25.52            | 26.30 | 25.98 | 26.74 | 27.21 | 23.45          | 24.23 | 23.92 | 24.68 | 25.14 |
|                 | 12H  | 25.57            | 26.27 | 26.05 | 26.75 | 27.22 | 23.52          | 24.21 | 24.00 | 24.69 | 25.16 |
| 8H              | 4H   | 25.20            | 25.98 | 25.66 | 26.42 | 26.89 | 23.39          | 24.17 | 23.85 | 24.61 | 25.08 |
|                 | 6H   | 25.66            | 26.31 | 26.16 | 26.80 | 27.28 | 23.83          | 24.48 | 24.33 | 24.97 | 25.45 |
|                 | 8H   | 25.81            | 26.39 | 26.32 | 26.90 | 27.39 | 23.98          | 24.55 | 24.49 | 25.06 | 25.55 |
|                 | 12H  | 25.92            | 26.42 | 26.43 | 26.92 | 27.48 | 24.08          | 24.59 | 24.59 | 25.08 | 25.65 |
| 12H             | 4H   | 25.20            | 25.89 | 25.68 | 26.37 | 26.84 | 23.43          | 24.13 | 23.91 | 24.60 | 25.08 |
|                 | 6H   | 25.67            | 26.25 | 26.18 | 26.76 | 27.24 | 23.89          | 24.47 | 24.41 | 24.98 | 25.47 |
|                 | 8H   | 25.86            | 26.37 | 26.37 | 26.86 | 27.42 | 24.08          | 24.59 | 24.59 | 25.09 | 25.65 |