

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



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243260

Luminaire Tested: S122RDRP-H865D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-68)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-H865D835-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

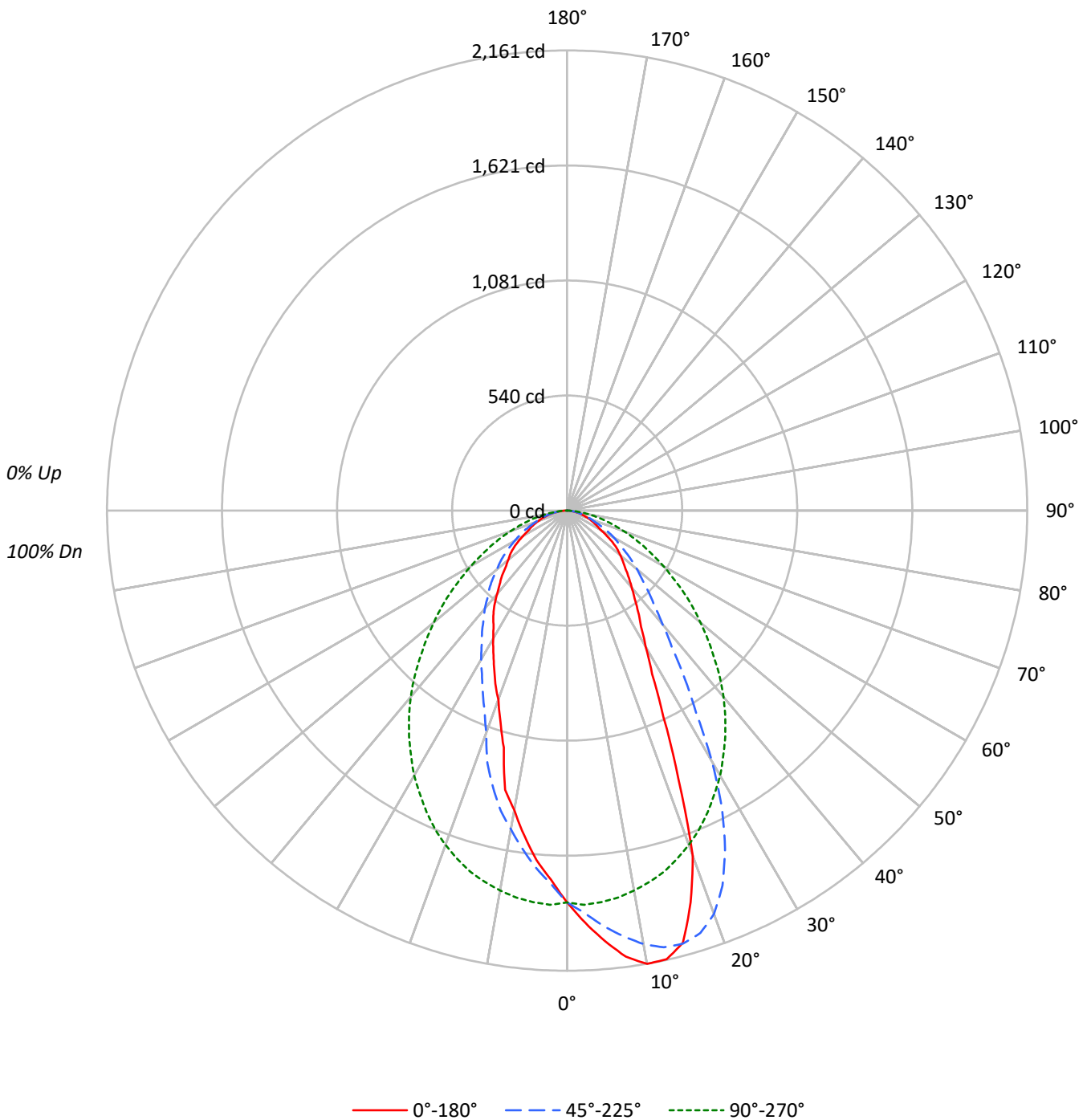
Lumens per Lamp: N/A
Luminaire Lumens: 3100.9 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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: P243260

CATALOG NUMBER: S122RDRP-H865D835-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243260

CATALOG NUMBER: S122RDRP-H865D835-X4F0-XX-UDD-A-W

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | | | | | 87 | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 84 | 80 | 78 | | | | | 76 | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | | | | | 66 | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 76 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | | | | | 58 | | | | |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | | | | | 52 | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | 60 | 54 | 49 | 58 | 53 | 49 | | | | | 47 | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | | | | | 42 | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | | | | | 38 | | | | |
| 9 | 62 | 50 | 43 | 38 | 61 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | | | | | 35 | | | | |
| 10 | 59 | 47 | 39 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 44 | 38 | 34 | | | | | 33 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 35046 | 35046 | 35046 | 35046 | 35046 |
| 5° | 38795 | 37436 | 35283 | 32199 | 31497 |
| 10° | 41805 | 39989 | 35039 | 29403 | 27622 |
| 15° | 41435 | 41518 | 34632 | 26523 | 22701 |
| 20° | 34952 | 40859 | 33865 | 22528 | 19161 |
| 25° | 22473 | 36872 | 32824 | 19714 | 17057 |
| 30° | 16234 | 29901 | 31608 | 17758 | 15282 |
| 35° | 13524 | 22386 | 30087 | 16212 | 14056 |
| 40° | 11736 | 17351 | 28413 | 14956 | 12726 |
| 45° | 10476 | 14533 | 26291 | 13916 | 11645 |
| 50° | 9669 | 12650 | 24210 | 12775 | 10703 |
| 55° | 8677 | 10916 | 22114 | 11915 | 10198 |
| 60° | 6926 | 9611 | 19909 | 10827 | 9173 |
| 65° | 6350 | 8167 | 17884 | 9934 | 8464 |
| 70° | 5836 | 6739 | 15794 | 8816 | 8047 |
| 75° | 5314 | 6027 | 13821 | 8375 | 7624 |
| 80° | 4618 | 5287 | 11496 | 7656 | 7130 |
| 85° | 3693 | 4349 | 9201 | 6972 | 6578 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 45°
 Luminance: 34803 cd/sqm



TEST NUMBER: P243260

CATALOG NUMBER: S122RDRP-H865D835-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 174.2 | 5.6 |
| 10°-20° | 476.5 | 15.4 |
| 20°-30° | 600.7 | 19.4 |
| 30°-40° | 576.7 | 18.6 |
| 40°-50° | 496.7 | 16.0 |
| 50°-60° | 379.7 | 12.2 |
| 60°-70° | 241.6 | 7.8 |
| 70°-80° | 122.5 | 3.9 |
| 80°-90° | 32.3 | 1.0 |
| 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° | 1251.4 | 40.4 |
| 0°-40° | 1828.0 | 59.0 |
| 0°-60° | 2704.4 | 87.2 |
| 0°-90° | 3100.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3100.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1840 | 1840 | 1840 | 1840 | 1840 | |
| 5° | 2029 | 1958 | 1845 | 1684 | 1647 | 198 |
| 15° | 2101 | 2105 | 1756 | 1345 | 1151 | 570 |
| 25° | 1069 | 1754 | 1562 | 938 | 812 | 511 |
| 35° | 582 | 963 | 1294 | 697 | 604 | 366 |
| 45° | 389 | 540 | 976 | 517 | 432 | 303 |
| 55° | 261 | 329 | 666 | 359 | 307 | 230 |
| 65° | 141 | 181 | 397 | 220 | 188 | 140 |
| 75° | 72 | 82 | 188 | 114 | 104 | 77 |
| 85° | 17 | 20 | 42 | 32 | 30 | 19 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243260

CATALOG NUMBER: S122RDRP-H865D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 |
| 2.5° | 1937.5 | 1939.9 | 1941.1 | 1938.1 | 1931.4 | 1932.0 | 1926.0 | 1915.8 | 1903.1 | 1891.7 | 1898.3 |
| 5° | 2029.0 | 2032.0 | 2031.4 | 2026.0 | 2019.3 | 2013.3 | 2003.1 | 1988.6 | 1973.6 | 1957.9 | 1954.9 |
| 7.5° | 2113.3 | 2119.9 | 2118.1 | 2107.9 | 2103.0 | 2094.6 | 2077.1 | 2060.9 | 2038.0 | 2015.7 | 2006.7 |
| 10° | 2161.4 | 2166.9 | 2163.8 | 2161.4 | 2156.0 | 2147.6 | 2131.9 | 2116.3 | 2091.0 | 2067.5 | 2054.3 |
| 12.5° | 2157.8 | 2162.6 | 2165.0 | 2167.5 | 2165.7 | 2162.6 | 2156.0 | 2142.8 | 2122.3 | 2100.6 | 2083.8 |
| 15° | 2101.2 | 2093.4 | 2088.0 | 2103.0 | 2108.5 | 2128.9 | 2133.7 | 2135.5 | 2121.7 | 2105.4 | 2101.2 |
| 17.5° | 1929.0 | 1931.4 | 1973.0 | 1966.4 | 1975.4 | 2025.4 | 2045.2 | 2072.3 | 2083.8 | 2080.2 | 2087.4 |
| 20° | 1724.3 | 1696.0 | 1716.5 | 1746.6 | 1774.9 | 1847.8 | 1895.9 | 1938.7 | 1988.0 | 2015.7 | 2042.2 |
| 22.5° | 1367.9 | 1368.5 | 1417.9 | 1467.2 | 1531.1 | 1609.9 | 1683.4 | 1765.3 | 1853.2 | 1906.8 | 1968.8 |
| 25° | 1069.3 | 1098.2 | 1119.9 | 1141.5 | 1234.2 | 1310.1 | 1432.3 | 1531.7 | 1652.7 | 1754.4 | 1858.6 |
| 27.5° | 864.6 | 894.7 | 898.3 | 947.1 | 1001.8 | 1063.3 | 1143.3 | 1299.9 | 1423.9 | 1573.2 | 1702.1 |
| 30° | 738.1 | 744.2 | 756.8 | 769.4 | 809.8 | 867.0 | 953.1 | 1051.2 | 1189.1 | 1359.5 | 1532.3 |
| 32.5° | 646.6 | 645.4 | 658.1 | 677.9 | 700.2 | 738.7 | 787.5 | 868.8 | 993.4 | 1128.9 | 1330.6 |
| 35° | 581.6 | 579.8 | 588.8 | 596.1 | 609.3 | 640.6 | 684.6 | 738.1 | 827.8 | 962.7 | 1119.3 |
| 37.5° | 520.2 | 523.8 | 529.2 | 537.0 | 554.5 | 574.4 | 603.9 | 648.4 | 719.5 | 808.6 | 958.5 |
| 40° | 472.0 | 476.2 | 482.3 | 487.7 | 500.9 | 517.2 | 537.0 | 572.6 | 620.1 | 697.8 | 812.8 |
| 42.5° | 428.7 | 430.5 | 435.3 | 443.1 | 452.8 | 467.2 | 486.5 | 513.6 | 553.3 | 607.5 | 708.0 |
| 45° | 388.9 | 388.9 | 394.4 | 401.6 | 407.6 | 421.4 | 436.5 | 462.4 | 493.1 | 539.5 | 611.1 |
| 47.5° | 355.2 | 355.8 | 358.8 | 360.0 | 366.7 | 379.3 | 395.6 | 416.0 | 441.3 | 476.8 | 543.7 |
| 50° | 326.3 | 328.7 | 329.9 | 331.7 | 334.1 | 340.8 | 352.2 | 367.9 | 395.6 | 426.9 | 471.4 |
| 52.5° | 296.2 | 299.2 | 301.6 | 305.3 | 308.9 | 309.5 | 317.9 | 328.1 | 347.4 | 379.9 | 416.0 |
| 55° | 261.3 | 263.7 | 268.5 | 271.5 | 276.4 | 280.6 | 287.2 | 294.4 | 307.1 | 328.7 | 366.1 |
| 57.5° | 221.6 | 222.2 | 227.0 | 230.0 | 239.6 | 249.3 | 255.3 | 263.1 | 272.1 | 287.2 | 315.5 |
| 60° | 181.8 | 183.6 | 184.2 | 186.6 | 195.1 | 205.3 | 217.3 | 229.4 | 239.0 | 252.3 | 272.1 |
| 62.5° | 160.2 | 160.8 | 162.6 | 165.0 | 165.6 | 170.4 | 174.0 | 188.4 | 205.3 | 218.6 | 231.8 |
| 65° | 140.9 | 141.5 | 141.5 | 143.3 | 145.7 | 148.1 | 149.9 | 155.3 | 162.6 | 181.2 | 197.5 |
| 67.5° | 122.8 | 122.2 | 123.4 | 125.2 | 125.8 | 127.6 | 130.6 | 133.7 | 138.5 | 143.9 | 160.8 |
| 70° | 104.8 | 104.8 | 104.2 | 106.0 | 107.8 | 108.4 | 110.2 | 113.2 | 116.2 | 121.0 | 126.4 |
| 72.5° | 86.7 | 87.9 | 87.9 | 89.1 | 89.7 | 92.1 | 93.3 | 94.5 | 98.7 | 101.1 | 105.4 |
| 75° | 72.2 | 71.6 | 73.5 | 72.9 | 74.1 | 74.7 | 76.5 | 78.3 | 79.5 | 81.9 | 85.5 |
| 77.5° | 57.8 | 56.6 | 57.8 | 57.2 | 58.4 | 59.6 | 59.6 | 61.4 | 62.6 | 65.0 | 66.8 |
| 80° | 42.1 | 42.1 | 42.7 | 44.0 | 44.0 | 44.6 | 45.8 | 45.2 | 47.6 | 48.2 | 50.0 |
| 82.5° | 28.9 | 29.5 | 29.5 | 30.1 | 30.1 | 30.1 | 31.3 | 31.3 | 31.9 | 33.1 | 33.7 |
| 85° | 16.9 | 16.3 | 16.9 | 16.9 | 16.9 | 17.5 | 18.1 | 17.5 | 18.7 | 19.9 | 19.9 |
| 87.5° | 4.8 | 4.8 | 5.4 | 6.0 | 6.0 | 6.6 | 6.6 | 6.6 | 7.2 | 7.2 | 7.8 |
| 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: P243260

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 |
| 2.5° | 1898.3 | 1895.3 | 1887.5 | 1880.3 | 1867.0 | 1856.2 | 1852.6 | 1853.2 | 1836.9 | 1820.1 | 1815.2 |
| 5° | 1950.7 | 1939.9 | 1924.2 | 1908.0 | 1888.1 | 1868.2 | 1855.6 | 1845.3 | 1820.1 | 1794.8 | 1780.3 |
| 7.5° | 1994.1 | 1976.6 | 1953.7 | 1927.8 | 1901.9 | 1872.4 | 1852.0 | 1832.7 | 1797.8 | 1763.5 | 1744.8 |
| 10° | 2033.8 | 2009.1 | 1977.8 | 1944.1 | 1909.8 | 1871.2 | 1841.7 | 1811.6 | 1767.7 | 1729.1 | 1697.2 |
| 12.5° | 2071.7 | 2032.6 | 2000.7 | 1951.9 | 1914.0 | 1861.6 | 1821.3 | 1786.3 | 1734.6 | 1686.4 | 1650.9 |
| 15° | 2075.3 | 2047.6 | 2004.9 | 1954.3 | 1896.5 | 1847.8 | 1797.2 | 1756.2 | 1697.2 | 1643.7 | 1582.8 |
| 17.5° | 2074.7 | 2053.1 | 2008.5 | 1956.7 | 1887.5 | 1823.7 | 1768.9 | 1715.3 | 1647.9 | 1585.3 | 1532.9 |
| 20° | 2053.1 | 2038.0 | 1999.5 | 1938.1 | 1868.2 | 1794.8 | 1734.0 | 1670.7 | 1591.9 | 1527.5 | 1470.3 |
| 22.5° | 2001.9 | 2005.5 | 1975.4 | 1920.6 | 1845.3 | 1763.5 | 1693.0 | 1620.2 | 1539.5 | 1465.4 | 1393.2 |
| 25° | 1915.2 | 1953.7 | 1944.7 | 1893.5 | 1813.4 | 1723.7 | 1643.7 | 1561.8 | 1475.1 | 1396.2 | 1329.4 |
| 27.5° | 1807.4 | 1879.7 | 1895.3 | 1855.6 | 1779.1 | 1678.6 | 1587.7 | 1498.6 | 1410.1 | 1325.2 | 1256.5 |
| 30° | 1679.8 | 1787.5 | 1827.3 | 1805.6 | 1735.2 | 1629.8 | 1524.4 | 1437.1 | 1340.2 | 1249.9 | 1177.7 |
| 32.5° | 1519.0 | 1670.1 | 1740.0 | 1746.6 | 1688.8 | 1575.6 | 1458.8 | 1364.9 | 1265.6 | 1180.1 | 1102.4 |
| 35° | 1339.6 | 1525.0 | 1638.8 | 1669.5 | 1628.0 | 1516.0 | 1393.2 | 1293.9 | 1187.9 | 1101.8 | 1023.5 |
| 37.5° | 1159.0 | 1376.9 | 1526.3 | 1585.9 | 1558.2 | 1449.8 | 1319.7 | 1219.2 | 1114.4 | 1026.5 | 953.1 |
| 40° | 992.8 | 1199.9 | 1393.8 | 1487.1 | 1478.7 | 1378.1 | 1246.9 | 1142.7 | 1036.2 | 954.9 | 874.2 |
| 42.5° | 844.1 | 1044.0 | 1257.1 | 1382.4 | 1389.0 | 1301.1 | 1166.8 | 1062.1 | 959.7 | 879.0 | 794.7 |
| 45° | 726.7 | 902.5 | 1113.8 | 1263.1 | 1292.0 | 1219.8 | 1083.7 | 976.0 | 882.6 | 806.8 | 722.5 |
| 47.5° | 632.8 | 769.4 | 965.7 | 1140.9 | 1192.1 | 1128.9 | 998.8 | 896.5 | 808.6 | 743.6 | 664.1 |
| 50° | 551.5 | 679.7 | 846.5 | 1008.5 | 1083.7 | 1036.2 | 914.5 | 817.0 | 737.5 | 674.9 | 605.1 |
| 52.5° | 479.2 | 578.6 | 723.1 | 878.4 | 979.6 | 936.2 | 832.7 | 743.0 | 668.3 | 609.9 | 551.5 |
| 55° | 419.6 | 502.7 | 630.4 | 768.8 | 862.2 | 838.1 | 746.0 | 665.9 | 600.3 | 544.9 | 497.3 |
| 57.5° | 358.2 | 428.1 | 531.0 | 654.5 | 746.0 | 742.4 | 666.5 | 589.4 | 537.6 | 485.3 | 451.0 |
| 60° | 304.6 | 361.2 | 444.9 | 549.7 | 641.8 | 642.4 | 583.4 | 522.6 | 478.0 | 432.9 | 400.4 |
| 62.5° | 257.1 | 302.2 | 375.1 | 459.4 | 532.8 | 551.5 | 507.5 | 454.6 | 418.4 | 383.5 | 355.8 |
| 65° | 216.1 | 249.9 | 304.6 | 381.1 | 438.9 | 464.2 | 435.3 | 396.8 | 366.7 | 335.4 | 310.7 |
| 67.5° | 178.2 | 202.9 | 243.2 | 303.4 | 361.2 | 379.9 | 367.9 | 338.4 | 316.7 | 290.8 | 272.1 |
| 70° | 140.3 | 161.4 | 189.7 | 234.8 | 282.4 | 308.3 | 304.6 | 283.6 | 265.5 | 246.8 | 229.4 |
| 72.5° | 111.4 | 123.4 | 145.1 | 177.6 | 215.5 | 244.4 | 245.6 | 234.8 | 219.8 | 204.1 | 192.7 |
| 75° | 89.7 | 95.1 | 105.4 | 130.6 | 160.8 | 184.8 | 193.3 | 187.8 | 175.8 | 166.2 | 158.3 |
| 77.5° | 69.2 | 74.1 | 80.7 | 92.7 | 116.2 | 134.9 | 145.1 | 145.7 | 138.5 | 130.0 | 124.0 |
| 80° | 51.8 | 53.6 | 58.4 | 64.4 | 76.5 | 92.7 | 104.8 | 104.8 | 100.5 | 96.3 | 92.7 |
| 82.5° | 35.5 | 37.3 | 39.7 | 42.7 | 48.8 | 58.4 | 69.2 | 71.0 | 68.6 | 67.4 | 62.6 |
| 85° | 19.9 | 21.7 | 22.9 | 24.7 | 27.1 | 31.9 | 39.7 | 42.1 | 42.7 | 39.1 | 36.7 |
| 87.5° | 7.8 | 7.8 | 8.4 | 9.0 | 9.6 | 11.4 | 14.4 | 18.1 | 18.1 | 16.3 | 15.7 |
| 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: P243260

CATALOG NUMBER: S122RDRP-H865D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 | 1839.9 |
| 2.5° | 1809.2 | 1800.8 | 1790.0 | 1780.3 | 1767.1 | 1753.8 | 1751.4 | 1756.2 | 1757.4 | 1751.4 | 1753.2 |
| 5° | 1766.5 | 1750.8 | 1737.6 | 1715.9 | 1702.1 | 1684.0 | 1672.0 | 1672.0 | 1672.0 | 1662.9 | 1654.5 |
| 7.5° | 1721.9 | 1700.9 | 1675.6 | 1655.1 | 1626.8 | 1603.3 | 1591.9 | 1586.5 | 1575.6 | 1566.6 | 1556.4 |
| 10° | 1670.1 | 1640.6 | 1609.3 | 1577.4 | 1552.7 | 1520.2 | 1501.0 | 1488.9 | 1470.3 | 1462.4 | 1447.4 |
| 12.5° | 1609.3 | 1579.8 | 1541.9 | 1490.1 | 1482.9 | 1443.2 | 1416.1 | 1393.8 | 1370.9 | 1352.3 | 1345.6 |
| 15° | 1560.6 | 1509.4 | 1458.8 | 1422.1 | 1368.5 | 1345.0 | 1305.3 | 1301.7 | 1283.0 | 1228.2 | 1185.5 |
| 17.5° | 1481.7 | 1435.9 | 1379.9 | 1339.0 | 1296.3 | 1243.9 | 1201.7 | 1160.2 | 1120.5 | 1081.9 | 1080.7 |
| 20° | 1411.9 | 1358.3 | 1305.3 | 1260.7 | 1186.1 | 1111.4 | 1085.5 | 1047.6 | 1024.1 | 993.4 | 984.4 |
| 22.5° | 1335.4 | 1279.4 | 1213.2 | 1148.2 | 1060.8 | 1013.9 | 985.6 | 955.5 | 932.0 | 918.2 | 904.3 |
| 25° | 1258.3 | 1202.3 | 1114.4 | 1034.4 | 974.8 | 938.0 | 913.9 | 881.4 | 864.6 | 852.5 | 834.5 |
| 27.5° | 1183.1 | 1112.0 | 1019.3 | 955.5 | 907.3 | 865.8 | 844.1 | 817.6 | 798.9 | 783.3 | 771.9 |
| 30° | 1108.4 | 1010.9 | 932.0 | 882.6 | 833.3 | 807.4 | 779.1 | 759.2 | 745.4 | 730.9 | 712.3 |
| 32.5° | 1026.5 | 924.2 | 873.0 | 812.2 | 783.3 | 746.0 | 725.5 | 705.0 | 687.0 | 676.7 | 670.1 |
| 35° | 931.4 | 848.9 | 803.2 | 758.6 | 721.9 | 697.2 | 668.3 | 655.7 | 646.0 | 626.2 | 617.7 |
| 37.5° | 850.7 | 791.1 | 743.0 | 703.2 | 669.5 | 643.0 | 629.8 | 608.1 | 594.2 | 587.6 | 578.6 |
| 40° | 783.9 | 730.9 | 689.4 | 649.0 | 620.7 | 601.5 | 578.0 | 566.5 | 548.5 | 541.9 | 534.6 |
| 42.5° | 726.1 | 677.3 | 634.0 | 603.3 | 578.6 | 552.1 | 540.1 | 520.8 | 513.0 | 496.7 | 490.7 |
| 45° | 667.7 | 624.3 | 586.4 | 556.3 | 532.8 | 516.6 | 494.9 | 482.9 | 469.0 | 460.6 | 444.3 |
| 47.5° | 609.3 | 570.8 | 539.5 | 514.2 | 493.7 | 473.8 | 455.8 | 445.5 | 428.1 | 419.0 | 410.6 |
| 50° | 564.1 | 526.8 | 497.3 | 472.0 | 451.0 | 431.1 | 419.6 | 402.8 | 387.1 | 376.9 | 373.9 |
| 52.5° | 510.6 | 478.0 | 451.0 | 431.7 | 410.6 | 396.2 | 380.5 | 361.8 | 354.0 | 343.8 | 341.4 |
| 55° | 463.0 | 436.5 | 413.6 | 393.2 | 375.1 | 358.8 | 340.8 | 327.5 | 321.5 | 316.7 | 313.1 |
| 57.5° | 418.4 | 393.2 | 372.1 | 353.4 | 337.8 | 320.9 | 305.9 | 298.0 | 292.6 | 287.2 | 283.6 |
| 60° | 374.5 | 351.6 | 332.3 | 316.7 | 300.4 | 284.2 | 273.3 | 266.7 | 262.5 | 254.7 | 252.3 |
| 62.5° | 335.4 | 314.3 | 294.4 | 280.0 | 264.9 | 252.3 | 243.2 | 234.2 | 227.6 | 221.6 | 208.9 |
| 65° | 292.6 | 273.9 | 258.9 | 244.4 | 230.0 | 220.4 | 210.1 | 199.9 | 191.5 | 191.5 | 191.5 |
| 67.5° | 254.7 | 238.4 | 222.8 | 210.1 | 197.5 | 186.0 | 175.8 | 175.2 | 172.2 | 171.0 | 169.2 |
| 70° | 216.1 | 204.7 | 190.3 | 176.4 | 163.8 | 158.3 | 156.5 | 153.5 | 149.9 | 149.3 | 146.9 |
| 72.5° | 181.2 | 168.0 | 154.7 | 142.7 | 140.3 | 137.9 | 134.3 | 131.3 | 128.8 | 127.0 | 125.8 |
| 75° | 148.1 | 134.9 | 124.0 | 121.0 | 118.0 | 113.8 | 110.8 | 108.4 | 107.2 | 107.2 | 106.6 |
| 77.5° | 113.2 | 105.4 | 100.5 | 95.7 | 93.3 | 90.9 | 89.1 | 87.9 | 86.1 | 86.7 | 85.5 |
| 80° | 83.1 | 80.7 | 76.5 | 73.5 | 72.2 | 69.8 | 68.6 | 68.0 | 66.8 | 66.8 | 66.2 |
| 82.5° | 59.6 | 55.4 | 53.6 | 51.8 | 50.6 | 49.4 | 50.0 | 49.4 | 48.8 | 48.2 | 48.8 |
| 85° | 34.3 | 33.7 | 32.5 | 32.5 | 32.5 | 31.9 | 31.9 | 31.9 | 31.3 | 30.7 | 30.7 |
| 87.5° | 15.1 | 15.7 | 15.7 | 14.4 | 16.3 | 16.3 | 15.7 | 15.7 | 15.1 | 16.3 | 15.1 |
| 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: P243260

CATALOG NUMBER: S122RDRP-H865D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1839.9 | 1839.9 | 1839.9 | 1839.9 |
| 2.5° | 1745.4 | 1744.8 | 1741.2 | 1735.2 |
| 5° | 1650.9 | 1648.5 | 1642.5 | 1647.3 |
| 7.5° | 1549.7 | 1543.1 | 1537.1 | 1540.1 |
| 10° | 1441.4 | 1439.0 | 1435.3 | 1428.1 |
| 12.5° | 1321.5 | 1331.2 | 1320.9 | 1343.8 |
| 15° | 1143.9 | 1186.7 | 1133.1 | 1151.2 |
| 17.5° | 1055.4 | 1056.0 | 1048.8 | 1040.4 |
| 20° | 972.3 | 951.3 | 959.1 | 945.3 |
| 22.5° | 892.3 | 887.5 | 885.0 | 880.2 |
| 25° | 820.6 | 811.6 | 808.6 | 811.6 |
| 27.5° | 767.6 | 763.4 | 752.0 | 750.2 |
| 30° | 701.4 | 699.6 | 696.0 | 694.8 |
| 32.5° | 659.9 | 652.0 | 650.2 | 643.0 |
| 35° | 613.5 | 609.3 | 606.3 | 604.5 |
| 37.5° | 567.2 | 564.7 | 559.3 | 562.3 |
| 40° | 529.2 | 517.2 | 512.4 | 511.8 |
| 42.5° | 487.7 | 481.1 | 471.4 | 468.4 |
| 45° | 439.5 | 436.5 | 433.5 | 432.3 |
| 47.5° | 397.4 | 395.6 | 391.9 | 390.1 |
| 50° | 367.3 | 362.4 | 361.8 | 361.2 |
| 52.5° | 338.4 | 336.6 | 334.8 | 337.2 |
| 55° | 311.3 | 308.9 | 307.1 | 307.1 |
| 57.5° | 281.8 | 277.6 | 273.9 | 274.5 |
| 60° | 247.5 | 245.0 | 242.0 | 240.8 |
| 62.5° | 207.7 | 207.7 | 207.1 | 207.1 |
| 65° | 189.1 | 187.8 | 187.2 | 187.8 |
| 67.5° | 168.6 | 167.4 | 165.6 | 166.2 |
| 70° | 145.1 | 144.5 | 145.1 | 144.5 |
| 72.5° | 124.0 | 123.4 | 124.0 | 125.2 |
| 75° | 104.8 | 104.2 | 103.6 | 103.6 |
| 77.5° | 84.9 | 84.3 | 83.1 | 84.3 |
| 80° | 66.2 | 65.6 | 65.0 | 65.0 |
| 82.5° | 47.0 | 47.6 | 47.0 | 47.0 |
| 85° | 30.7 | 31.3 | 30.7 | 30.1 |
| 87.5° | 15.7 | 16.3 | 15.1 | 14.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P243260
 CATALOG NUMBER: S122RDRP-H865D835-X4F0-XX-UDD-A-W

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 | 17.20 | 18.65 | 17.56 | 18.97 | 19.28 | 23.53 | 24.99 | 23.89 | 25.30 | 25.61 |
| | 3H | 18.37 | 19.67 | 18.75 | 20.00 | 20.36 | 24.78 | 26.08 | 25.16 | 26.41 | 26.77 |
| | 4H | 18.83 | 20.05 | 19.23 | 20.40 | 20.78 | 25.21 | 26.43 | 25.61 | 26.78 | 27.16 |
| | 6H | 19.16 | 20.28 | 19.57 | 20.65 | 21.04 | 25.51 | 26.63 | 25.92 | 27.00 | 27.39 |
| | 8H | 19.26 | 20.33 | 19.68 | 20.72 | 21.12 | 25.59 | 26.66 | 26.02 | 27.05 | 27.45 |
| | 12H | 19.31 | 20.33 | 19.74 | 20.72 | 21.15 | 25.64 | 26.66 | 26.07 | 27.05 | 27.48 |
| 4H | 2H | 17.92 | 19.14 | 18.32 | 19.49 | 19.87 | 23.51 | 24.73 | 23.91 | 25.08 | 25.46 |
| | 3H | 19.25 | 20.26 | 19.66 | 20.66 | 21.06 | 24.90 | 25.91 | 25.31 | 26.31 | 26.71 |
| | 4H | 19.80 | 20.71 | 20.23 | 21.13 | 21.57 | 25.43 | 26.33 | 25.86 | 26.75 | 27.19 |
| | 6H | 20.23 | 21.02 | 20.69 | 21.46 | 21.93 | 25.84 | 26.63 | 26.30 | 27.07 | 27.54 |
| | 8H | 20.36 | 21.10 | 20.83 | 21.54 | 22.01 | 25.97 | 26.71 | 26.44 | 27.16 | 27.62 |
| | 12H | 20.44 | 21.10 | 20.93 | 21.58 | 22.05 | 26.07 | 26.72 | 26.55 | 27.20 | 27.67 |
| 8H | 4H | 20.15 | 20.88 | 20.61 | 21.33 | 21.80 | 25.42 | 26.16 | 25.89 | 26.60 | 27.07 |
| | 6H | 20.67 | 21.28 | 21.17 | 21.77 | 22.25 | 25.89 | 26.49 | 26.39 | 26.99 | 27.47 |
| | 8H | 20.86 | 21.40 | 21.37 | 21.91 | 22.40 | 26.06 | 26.60 | 26.57 | 27.11 | 27.60 |
| | 12H | 20.99 | 21.47 | 21.50 | 21.96 | 22.53 | 26.20 | 26.68 | 26.71 | 27.17 | 27.74 |
| 12H | 4H | 20.19 | 20.85 | 20.67 | 21.32 | 21.80 | 25.40 | 26.06 | 25.89 | 26.54 | 27.01 |
| | 6H | 20.73 | 21.28 | 21.25 | 21.79 | 22.28 | 25.87 | 26.41 | 26.38 | 26.92 | 27.41 |
| | 8H | 20.97 | 21.45 | 21.48 | 21.94 | 22.51 | 26.07 | 26.55 | 26.58 | 27.04 | 27.61 |