

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: P243158

Luminaire Tested: S122DRP-H1005D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-H1005D835-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

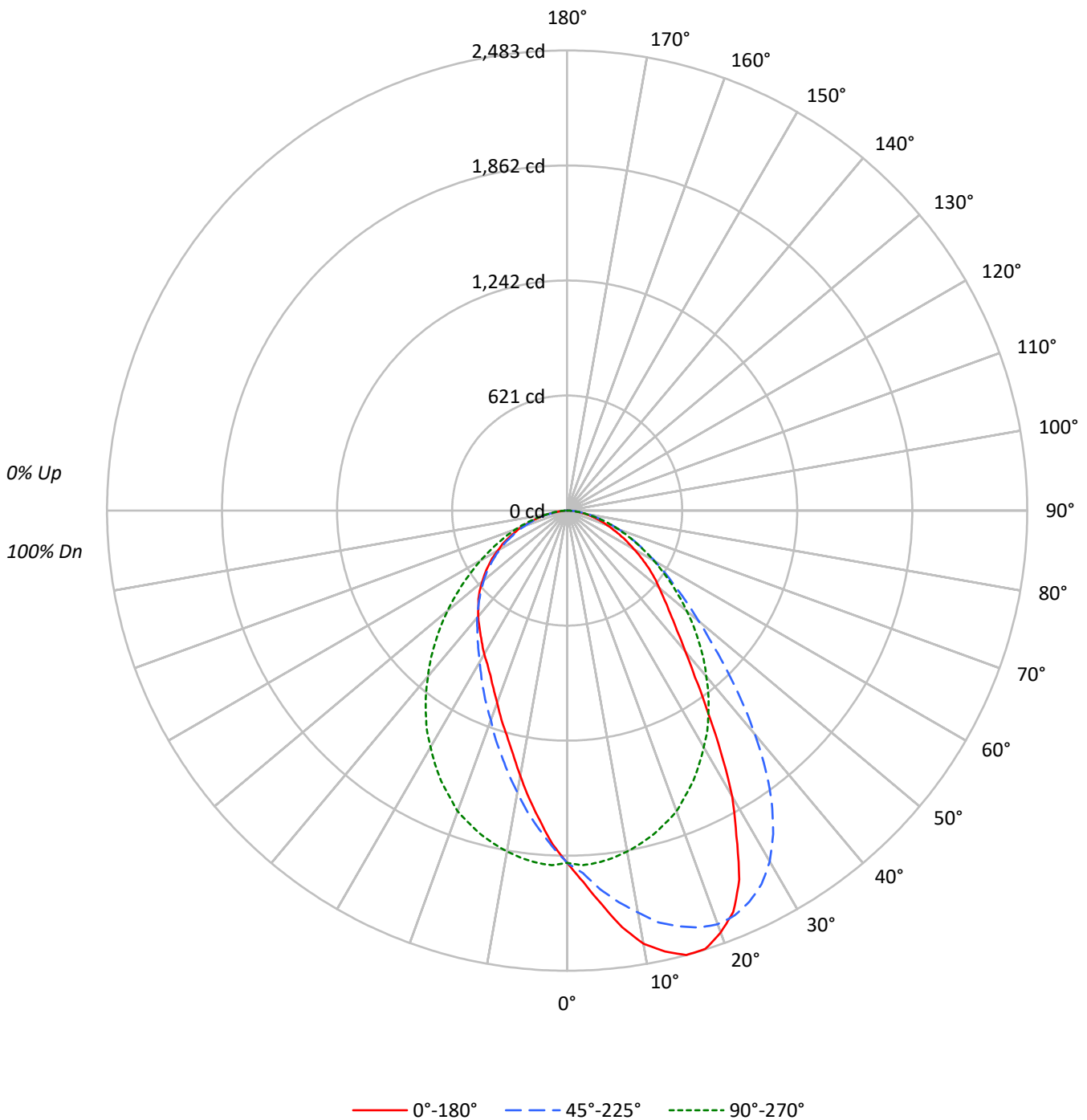
Lumens per Lamp: N/A
Luminaire Lumens: 4217.4 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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: P243158

CATALOG NUMBER: S122DRP-H1005D835-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243158

CATALOG NUMBER: S122DRP-H1005D835-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 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | | | | | 86 | | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | | | | | 74 | | | | |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 73 | 69 | 66 | | | | | 63 | | | | |
| 4 | 86 | 74 | 66 | 60 | 83 | 73 | 66 | 60 | 71 | 64 | 59 | 68 | 63 | 58 | 66 | 61 | 57 | | | | | 55 | | | | |
| 5 | 79 | 67 | 59 | 52 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | | | | | 49 | | | | |
| 6 | 73 | 61 | 52 | 46 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | | | | | 43 | | | | |
| 7 | 68 | 56 | 47 | 41 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | | | | | 39 | | | | |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | | | | | 35 | | | | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 33 | | | | | 32 | | | | |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 40 | 35 | 31 | | | | | 29 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 36202 | 36202 | 36202 | 36202 | 36202 |
| 5° | 40778 | 39218 | 36461 | 33019 | 32117 |
| 10° | 45903 | 42598 | 36134 | 29890 | 28107 |
| 15° | 48964 | 45787 | 35647 | 26978 | 24774 |
| 20° | 49104 | 48150 | 35005 | 24395 | 22356 |
| 25° | 46182 | 48919 | 33839 | 22471 | 20607 |
| 30° | 39203 | 48084 | 32426 | 20732 | 19678 |
| 35° | 30652 | 44783 | 30912 | 19579 | 18940 |
| 40° | 24626 | 39160 | 29052 | 18786 | 18574 |
| 45° | 21184 | 32818 | 27134 | 18000 | 18229 |
| 50° | 19217 | 27369 | 24972 | 17403 | 17718 |
| 55° | 17707 | 23522 | 22751 | 16724 | 17239 |
| 60° | 15916 | 20739 | 20499 | 15943 | 16453 |
| 65° | 14328 | 18547 | 18420 | 14932 | 15662 |
| 70° | 12770 | 16451 | 16373 | 13672 | 14653 |
| 75° | 11495 | 14336 | 14079 | 12114 | 12835 |
| 80° | 10026 | 11880 | 11342 | 9872 | 10026 |
| 85° | 8611 | 9835 | 8458 | 6600 | 5529 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 45379 cd/sqm



TEST NUMBER: P243158

CATALOG NUMBER: S122DRP-H1005D835-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 181.1 | 4.3 |
| 10°-20° | 520.4 | 12.3 |
| 20°-30° | 756.9 | 17.9 |
| 30°-40° | 811.9 | 19.3 |
| 40°-50° | 727.6 | 17.3 |
| 50°-60° | 580.1 | 13.8 |
| 60°-70° | 392.4 | 9.3 |
| 70°-80° | 200.1 | 4.7 |
| 80°-90° | 46.9 | 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° | 1458.4 | 34.6 |
| 0°-40° | 2270.2 | 53.8 |
| 0°-60° | 3578.0 | 84.8 |
| 0°-90° | 4217.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4217.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1901 | 1901 | 1901 | 1901 | 1901 | |
| 5° | 2133 | 2051 | 1907 | 1727 | 1680 | 211 |
| 15° | 2483 | 2322 | 1808 | 1368 | 1256 | 695 |
| 25° | 2197 | 2328 | 1610 | 1069 | 980 | 989 |
| 35° | 1318 | 1926 | 1329 | 842 | 814 | 835 |
| 45° | 786 | 1218 | 1007 | 668 | 677 | 615 |
| 55° | 533 | 708 | 685 | 504 | 519 | 476 |
| 65° | 318 | 412 | 409 | 331 | 348 | 315 |
| 75° | 156 | 195 | 191 | 165 | 174 | 167 |
| 85° | 39 | 45 | 39 | 30 | 25 | 46 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243158

CATALOG NUMBER: S122DRP-H1005D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 |
| 2.5° | 2006.1 | 2012.4 | 2006.8 | 2004.7 | 2000.5 | 1999.1 | 1987.8 | 1978.7 | 1973.0 | 1957.6 | 1959.0 |
| 5° | 2132.7 | 2146.8 | 2139.0 | 2138.3 | 2122.9 | 2113.0 | 2103.2 | 2089.1 | 2068.0 | 2051.1 | 2037.8 |
| 7.5° | 2266.4 | 2259.3 | 2257.2 | 2249.5 | 2238.2 | 2224.2 | 2202.4 | 2182.0 | 2155.2 | 2130.6 | 2112.3 |
| 10° | 2373.3 | 2371.2 | 2374.7 | 2355.0 | 2348.0 | 2326.2 | 2307.2 | 2275.5 | 2241.0 | 2202.4 | 2178.4 |
| 12.5° | 2436.6 | 2442.9 | 2447.8 | 2440.1 | 2423.2 | 2416.9 | 2385.2 | 2340.9 | 2329.0 | 2276.2 | 2247.4 |
| 15° | 2483.0 | 2485.8 | 2486.5 | 2478.1 | 2469.6 | 2453.5 | 2434.5 | 2406.3 | 2367.7 | 2321.9 | 2300.1 |
| 17.5° | 2480.2 | 2479.5 | 2483.7 | 2478.8 | 2473.9 | 2468.9 | 2454.2 | 2432.4 | 2402.1 | 2359.2 | 2322.6 |
| 20° | 2422.5 | 2435.2 | 2445.0 | 2447.1 | 2446.4 | 2449.2 | 2442.2 | 2428.1 | 2406.3 | 2375.4 | 2333.9 |
| 22.5° | 2343.7 | 2338.8 | 2359.9 | 2358.5 | 2367.7 | 2388.8 | 2397.9 | 2392.3 | 2383.8 | 2364.1 | 2331.1 |
| 25° | 2197.4 | 2202.4 | 2217.1 | 2232.6 | 2268.5 | 2281.1 | 2308.6 | 2329.7 | 2332.5 | 2327.6 | 2307.2 |
| 27.5° | 1978.0 | 2013.1 | 2020.9 | 2041.3 | 2091.2 | 2132.7 | 2188.3 | 2221.3 | 2268.5 | 2272.7 | 2263.6 |
| 30° | 1782.4 | 1781.0 | 1793.0 | 1829.6 | 1875.3 | 1937.9 | 2009.6 | 2094.7 | 2148.9 | 2186.2 | 2199.5 |
| 32.5° | 1541.9 | 1547.5 | 1578.4 | 1623.5 | 1669.9 | 1732.5 | 1815.5 | 1919.6 | 1992.0 | 2069.4 | 2113.0 |
| 35° | 1318.2 | 1335.8 | 1365.3 | 1396.3 | 1446.9 | 1532.7 | 1624.9 | 1711.4 | 1822.5 | 1925.9 | 1996.3 |
| 37.5° | 1133.9 | 1157.8 | 1180.3 | 1209.9 | 1259.1 | 1325.2 | 1408.2 | 1522.9 | 1633.3 | 1757.8 | 1861.2 |
| 40° | 990.4 | 999.5 | 1015.0 | 1043.8 | 1076.9 | 1143.0 | 1226.7 | 1312.5 | 1432.1 | 1574.9 | 1710.7 |
| 42.5° | 877.8 | 875.7 | 892.6 | 910.9 | 941.2 | 990.4 | 1063.5 | 1149.4 | 1268.2 | 1394.8 | 1532.0 |
| 45° | 786.4 | 787.1 | 794.1 | 813.1 | 837.0 | 865.2 | 921.5 | 1002.3 | 1092.4 | 1218.3 | 1363.9 |
| 47.5° | 711.8 | 714.0 | 724.5 | 737.9 | 751.9 | 778.0 | 815.2 | 868.0 | 952.4 | 1057.9 | 1194.4 |
| 50° | 648.5 | 652.1 | 659.1 | 668.9 | 679.5 | 697.8 | 725.9 | 767.4 | 834.2 | 923.6 | 1047.4 |
| 52.5° | 592.3 | 593.7 | 595.8 | 604.9 | 613.4 | 630.2 | 651.4 | 683.7 | 736.5 | 811.0 | 907.4 |
| 55° | 533.2 | 531.8 | 536.7 | 544.4 | 552.2 | 564.1 | 585.9 | 612.0 | 649.2 | 708.3 | 787.8 |
| 57.5° | 472.7 | 474.8 | 478.3 | 482.5 | 496.6 | 509.3 | 525.4 | 549.4 | 578.9 | 625.3 | 691.4 |
| 60° | 417.8 | 417.8 | 422.0 | 427.7 | 436.8 | 445.3 | 460.7 | 482.5 | 508.6 | 544.4 | 600.0 |
| 62.5° | 364.4 | 367.2 | 371.4 | 374.2 | 382.7 | 393.2 | 405.2 | 422.0 | 446.0 | 474.8 | 516.3 |
| 65° | 317.9 | 316.5 | 320.8 | 326.4 | 332.7 | 339.7 | 353.1 | 367.2 | 385.5 | 411.5 | 446.0 |
| 67.5° | 270.1 | 274.3 | 275.7 | 278.5 | 283.5 | 292.6 | 298.9 | 313.7 | 328.5 | 351.7 | 380.5 |
| 70° | 229.3 | 232.1 | 234.2 | 237.8 | 242.0 | 246.2 | 252.5 | 264.5 | 279.3 | 295.4 | 315.8 |
| 72.5° | 192.7 | 194.8 | 192.7 | 196.2 | 198.4 | 202.6 | 211.0 | 216.6 | 227.9 | 242.0 | 260.3 |
| 75° | 156.2 | 157.6 | 156.9 | 160.4 | 161.1 | 165.3 | 169.5 | 174.4 | 187.1 | 194.8 | 207.5 |
| 77.5° | 122.4 | 123.8 | 124.5 | 125.9 | 127.3 | 129.4 | 131.5 | 136.5 | 143.5 | 150.5 | 160.4 |
| 80° | 91.4 | 91.4 | 93.6 | 94.3 | 95.0 | 96.4 | 99.9 | 101.3 | 106.2 | 108.3 | 116.1 |
| 82.5° | 63.3 | 64.0 | 64.7 | 64.7 | 65.4 | 66.8 | 67.5 | 70.3 | 71.7 | 75.3 | 78.8 |
| 85° | 39.4 | 40.1 | 40.1 | 40.1 | 42.2 | 41.5 | 41.5 | 42.9 | 45.0 | 45.0 | 46.4 |
| 87.5° | 19.7 | 20.4 | 20.4 | 20.4 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 22.5 | 21.8 |
| 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: P243158

CATALOG NUMBER: S122DRP-H1005D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 |
| 2.5° | 1958.3 | 1957.6 | 1954.8 | 1942.1 | 1932.2 | 1919.6 | 1917.5 | 1915.4 | 1897.8 | 1878.8 | 1873.2 |
| 5° | 2027.2 | 2014.5 | 1997.0 | 1975.9 | 1954.8 | 1931.5 | 1918.2 | 1906.9 | 1880.2 | 1850.7 | 1833.8 |
| 7.5° | 2094.7 | 2070.1 | 2042.7 | 2009.6 | 1974.5 | 1937.2 | 1913.3 | 1890.7 | 1854.2 | 1815.5 | 1792.3 |
| 10° | 2152.4 | 2119.4 | 2081.4 | 2037.8 | 1989.2 | 1938.6 | 1903.4 | 1868.2 | 1821.8 | 1774.7 | 1743.7 |
| 12.5° | 2200.2 | 2158.0 | 2108.1 | 2049.0 | 2004.7 | 1935.1 | 1885.8 | 1839.4 | 1788.0 | 1726.9 | 1693.1 |
| 15° | 2236.8 | 2195.3 | 2127.8 | 2068.0 | 2009.6 | 1916.8 | 1857.0 | 1807.7 | 1738.8 | 1679.0 | 1625.6 |
| 17.5° | 2281.1 | 2222.0 | 2155.2 | 2069.4 | 2004.7 | 1898.5 | 1831.0 | 1766.9 | 1692.4 | 1622.0 | 1563.0 |
| 20° | 2300.8 | 2238.9 | 2167.2 | 2071.5 | 1989.2 | 1878.8 | 1788.8 | 1726.9 | 1636.8 | 1555.9 | 1489.1 |
| 22.5° | 2303.6 | 2244.6 | 2166.5 | 2065.2 | 1962.5 | 1849.9 | 1746.5 | 1665.7 | 1575.6 | 1489.8 | 1414.5 |
| 25° | 2291.7 | 2235.4 | 2154.5 | 2053.9 | 1933.0 | 1819.0 | 1703.6 | 1610.1 | 1506.0 | 1417.4 | 1340.7 |
| 27.5° | 2259.3 | 2213.6 | 2136.9 | 2029.3 | 1902.7 | 1771.2 | 1645.3 | 1543.3 | 1440.6 | 1340.0 | 1266.8 |
| 30° | 2207.3 | 2177.0 | 2110.9 | 1997.0 | 1864.0 | 1719.1 | 1593.2 | 1474.3 | 1363.2 | 1268.9 | 1190.2 |
| 32.5° | 2140.5 | 2125.7 | 2070.8 | 1958.3 | 1824.6 | 1662.1 | 1530.6 | 1408.2 | 1287.2 | 1197.9 | 1117.0 |
| 35° | 2055.3 | 2063.1 | 2016.7 | 1914.7 | 1774.7 | 1604.5 | 1457.5 | 1329.4 | 1211.3 | 1116.3 | 1041.7 |
| 37.5° | 1944.9 | 1982.9 | 1953.3 | 1857.7 | 1710.7 | 1546.1 | 1380.8 | 1252.1 | 1128.3 | 1036.8 | 971.4 |
| 40° | 1821.1 | 1887.9 | 1873.9 | 1793.7 | 1641.7 | 1477.8 | 1306.9 | 1168.4 | 1047.4 | 960.8 | 898.2 |
| 42.5° | 1675.5 | 1772.6 | 1788.0 | 1715.6 | 1573.5 | 1392.7 | 1223.9 | 1090.3 | 973.5 | 888.4 | 828.6 |
| 45° | 1512.3 | 1632.6 | 1684.6 | 1627.7 | 1494.0 | 1310.4 | 1138.8 | 1007.3 | 891.9 | 819.5 | 769.5 |
| 47.5° | 1348.4 | 1493.3 | 1563.7 | 1536.2 | 1401.2 | 1222.5 | 1054.4 | 925.7 | 816.7 | 753.3 | 706.2 |
| 50° | 1186.6 | 1342.1 | 1444.8 | 1426.5 | 1309.7 | 1138.8 | 969.3 | 842.7 | 742.8 | 684.4 | 644.3 |
| 52.5° | 1044.6 | 1191.6 | 1303.4 | 1312.5 | 1207.7 | 1043.1 | 879.3 | 761.8 | 676.7 | 623.9 | 590.2 |
| 55° | 904.6 | 1041.0 | 1163.4 | 1185.9 | 1100.8 | 942.6 | 796.3 | 685.1 | 607.7 | 564.1 | 536.7 |
| 57.5° | 779.4 | 903.2 | 1024.9 | 1064.2 | 995.3 | 852.5 | 706.9 | 609.1 | 542.3 | 508.6 | 484.6 |
| 60° | 673.2 | 785.0 | 889.8 | 929.9 | 882.8 | 752.6 | 625.3 | 538.1 | 482.5 | 452.3 | 433.3 |
| 62.5° | 580.3 | 666.8 | 759.7 | 804.0 | 772.3 | 659.1 | 548.0 | 470.6 | 425.6 | 399.5 | 384.8 |
| 65° | 496.6 | 563.4 | 636.6 | 687.9 | 652.8 | 568.3 | 475.5 | 408.7 | 370.7 | 346.8 | 336.2 |
| 67.5° | 419.2 | 474.8 | 533.2 | 574.0 | 556.4 | 479.7 | 401.6 | 349.6 | 317.9 | 299.6 | 289.8 |
| 70° | 348.9 | 390.4 | 437.5 | 469.2 | 456.5 | 397.4 | 335.5 | 294.0 | 267.3 | 254.6 | 246.2 |
| 72.5° | 286.3 | 313.0 | 348.9 | 374.9 | 361.5 | 320.0 | 275.7 | 242.7 | 223.0 | 208.2 | 201.9 |
| 75° | 227.2 | 250.4 | 275.7 | 293.3 | 282.8 | 251.8 | 216.6 | 191.3 | 178.0 | 168.8 | 164.6 |
| 77.5° | 172.3 | 190.6 | 208.2 | 216.6 | 211.7 | 189.2 | 165.3 | 145.6 | 134.3 | 128.7 | 123.8 |
| 80° | 123.8 | 134.3 | 146.3 | 154.0 | 151.2 | 135.8 | 118.9 | 103.4 | 98.5 | 91.4 | 90.0 |
| 82.5° | 83.0 | 91.4 | 94.3 | 97.8 | 95.7 | 88.6 | 76.7 | 67.5 | 63.3 | 59.8 | 59.1 |
| 85° | 49.2 | 51.3 | 54.9 | 54.9 | 52.8 | 47.8 | 41.5 | 38.7 | 34.5 | 33.8 | 31.7 |
| 87.5° | 21.8 | 21.8 | 21.8 | 21.8 | 21.8 | 20.4 | 17.6 | 16.2 | 14.8 | 14.1 | 13.4 |
| 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: P243158

CATALOG NUMBER: S122DRP-H1005D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 | 1900.6 |
| 2.5° | 1868.2 | 1861.2 | 1851.4 | 1840.1 | 1830.3 | 1814.8 | 1809.9 | 1809.9 | 1813.4 | 1809.2 | 1805.6 |
| 5° | 1819.7 | 1805.6 | 1791.6 | 1769.8 | 1751.5 | 1726.9 | 1719.8 | 1712.8 | 1712.1 | 1705.0 | 1695.9 |
| 7.5° | 1767.7 | 1746.5 | 1717.7 | 1686.8 | 1667.1 | 1640.3 | 1625.6 | 1621.3 | 1608.0 | 1595.3 | 1580.5 |
| 10° | 1707.2 | 1674.8 | 1640.3 | 1610.8 | 1579.8 | 1545.4 | 1527.8 | 1515.8 | 1502.5 | 1487.0 | 1476.4 |
| 12.5° | 1634.0 | 1597.4 | 1565.8 | 1531.3 | 1505.3 | 1456.7 | 1451.1 | 1435.6 | 1408.9 | 1385.7 | 1377.3 |
| 15° | 1589.0 | 1525.0 | 1489.1 | 1457.5 | 1418.1 | 1368.1 | 1349.8 | 1332.9 | 1307.6 | 1292.9 | 1280.9 |
| 17.5° | 1509.5 | 1451.8 | 1406.8 | 1364.6 | 1326.6 | 1287.9 | 1260.5 | 1246.4 | 1226.0 | 1213.4 | 1201.4 |
| 20° | 1437.1 | 1374.4 | 1327.3 | 1278.1 | 1238.7 | 1203.5 | 1180.3 | 1162.7 | 1152.2 | 1139.5 | 1127.6 |
| 22.5° | 1363.9 | 1298.5 | 1253.5 | 1203.5 | 1157.1 | 1136.0 | 1108.6 | 1093.8 | 1079.7 | 1069.9 | 1057.2 |
| 25° | 1278.8 | 1226.7 | 1170.5 | 1131.8 | 1091.0 | 1069.2 | 1043.1 | 1029.1 | 1017.8 | 1006.6 | 1000.2 |
| 27.5° | 1202.8 | 1150.1 | 1098.0 | 1059.3 | 1024.9 | 1003.8 | 987.6 | 974.2 | 960.1 | 951.7 | 946.8 |
| 30° | 1124.0 | 1075.5 | 1029.8 | 992.5 | 965.8 | 942.6 | 932.7 | 920.1 | 909.5 | 906.0 | 898.2 |
| 32.5° | 1053.7 | 999.5 | 963.0 | 929.2 | 906.7 | 890.5 | 883.5 | 870.1 | 868.0 | 864.5 | 860.3 |
| 35° | 983.4 | 936.9 | 901.8 | 872.9 | 853.9 | 842.0 | 832.8 | 829.3 | 825.8 | 822.3 | 818.8 |
| 37.5° | 913.7 | 877.1 | 844.1 | 820.9 | 805.4 | 796.3 | 794.1 | 787.1 | 786.4 | 781.5 | 781.5 |
| 40° | 851.1 | 813.8 | 790.6 | 772.3 | 759.7 | 755.5 | 749.8 | 748.4 | 746.3 | 744.9 | 747.7 |
| 42.5° | 788.5 | 763.2 | 743.5 | 724.5 | 714.7 | 711.1 | 709.7 | 707.6 | 706.2 | 710.4 | 711.8 |
| 45° | 730.1 | 708.3 | 691.4 | 678.1 | 672.5 | 668.2 | 668.2 | 670.3 | 669.6 | 671.7 | 671.7 |
| 47.5° | 676.0 | 656.3 | 642.2 | 637.3 | 630.2 | 628.8 | 629.5 | 628.8 | 632.4 | 635.2 | 638.0 |
| 50° | 624.6 | 607.0 | 595.8 | 590.9 | 589.5 | 587.3 | 590.2 | 591.6 | 593.7 | 596.5 | 597.9 |
| 52.5° | 567.6 | 559.2 | 552.2 | 547.2 | 546.5 | 547.2 | 546.5 | 551.5 | 553.6 | 557.8 | 557.1 |
| 55° | 519.1 | 512.8 | 507.9 | 502.2 | 501.5 | 503.6 | 505.0 | 509.3 | 512.1 | 515.6 | 514.9 |
| 57.5° | 473.4 | 468.5 | 462.8 | 461.4 | 460.7 | 461.4 | 467.8 | 467.1 | 471.3 | 474.1 | 475.5 |
| 60° | 423.4 | 419.9 | 415.0 | 415.0 | 417.1 | 418.5 | 420.6 | 424.2 | 428.4 | 427.7 | 432.6 |
| 62.5° | 377.7 | 373.5 | 372.1 | 374.2 | 373.5 | 377.0 | 379.1 | 379.1 | 384.8 | 386.9 | 388.3 |
| 65° | 332.0 | 330.6 | 328.5 | 328.5 | 330.6 | 331.3 | 334.8 | 336.9 | 339.0 | 343.3 | 346.8 |
| 67.5° | 289.1 | 285.6 | 285.6 | 284.2 | 287.0 | 289.1 | 291.2 | 294.0 | 295.4 | 300.4 | 302.5 |
| 70° | 244.1 | 242.7 | 242.0 | 243.4 | 243.4 | 245.5 | 249.0 | 252.5 | 255.3 | 256.0 | 260.3 |
| 72.5° | 200.5 | 200.5 | 200.5 | 202.6 | 204.0 | 206.1 | 206.8 | 209.6 | 213.8 | 214.5 | 216.6 |
| 75° | 161.1 | 161.8 | 161.1 | 161.8 | 162.5 | 164.6 | 166.0 | 168.8 | 171.6 | 172.3 | 173.7 |
| 77.5° | 124.5 | 123.1 | 121.7 | 123.8 | 125.2 | 129.4 | 128.7 | 130.1 | 132.9 | 131.5 | 132.9 |
| 80° | 87.2 | 89.3 | 86.5 | 90.7 | 90.7 | 90.0 | 91.4 | 93.6 | 92.8 | 94.3 | 92.8 |
| 82.5° | 59.1 | 57.0 | 57.0 | 59.1 | 59.8 | 57.7 | 59.1 | 59.8 | 60.5 | 59.1 | 58.4 |
| 85° | 32.4 | 31.7 | 33.1 | 30.9 | 31.7 | 30.2 | 30.2 | 28.8 | 30.2 | 28.8 | 27.4 |
| 87.5° | 12.0 | 11.3 | 12.0 | 9.8 | 9.1 | 8.4 | 7.7 | 7.7 | 6.3 | 6.3 | 6.3 |
| 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: P243158

CATALOG NUMBER: S122DRP-H1005D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1900.6 | 1900.6 | 1900.6 | 1900.6 |
| 2.5° | 1810.6 | 1802.8 | 1799.3 | 1802.1 |
| 5° | 1686.1 | 1688.2 | 1675.5 | 1679.7 |
| 7.5° | 1578.4 | 1569.3 | 1572.1 | 1567.2 |
| 10° | 1464.5 | 1459.6 | 1451.8 | 1453.2 |
| 12.5° | 1387.8 | 1354.8 | 1352.6 | 1346.3 |
| 15° | 1280.2 | 1261.9 | 1257.7 | 1256.3 |
| 17.5° | 1194.4 | 1178.9 | 1184.5 | 1180.3 |
| 20° | 1117.0 | 1117.7 | 1108.6 | 1102.9 |
| 22.5° | 1048.8 | 1047.4 | 1043.8 | 1038.2 |
| 25° | 991.1 | 991.1 | 982.7 | 980.5 |
| 27.5° | 938.3 | 939.7 | 932.7 | 932.7 |
| 30° | 898.9 | 894.0 | 893.3 | 894.7 |
| 32.5° | 859.6 | 853.9 | 854.6 | 853.9 |
| 35° | 817.4 | 818.8 | 816.7 | 814.5 |
| 37.5° | 781.5 | 781.5 | 781.5 | 779.4 |
| 40° | 746.3 | 747.7 | 745.6 | 747.0 |
| 42.5° | 711.1 | 711.8 | 711.8 | 709.0 |
| 45° | 676.0 | 675.3 | 673.9 | 676.7 |
| 47.5° | 639.4 | 639.4 | 638.7 | 640.1 |
| 50° | 599.3 | 600.7 | 598.6 | 597.9 |
| 52.5° | 558.5 | 559.2 | 558.5 | 559.9 |
| 55° | 517.0 | 517.0 | 517.7 | 519.1 |
| 57.5° | 474.1 | 479.0 | 475.5 | 478.3 |
| 60° | 431.9 | 432.6 | 433.3 | 431.9 |
| 62.5° | 391.8 | 391.1 | 391.8 | 393.9 |
| 65° | 348.2 | 349.6 | 348.9 | 347.5 |
| 67.5° | 305.3 | 303.9 | 306.0 | 303.9 |
| 70° | 259.6 | 262.4 | 260.3 | 263.1 |
| 72.5° | 218.1 | 217.4 | 218.8 | 215.2 |
| 75° | 174.4 | 174.4 | 175.1 | 174.4 |
| 77.5° | 133.6 | 132.2 | 131.5 | 129.4 |
| 80° | 92.1 | 92.1 | 89.3 | 91.4 |
| 82.5° | 56.3 | 57.0 | 57.7 | 53.5 |
| 85° | 26.7 | 26.7 | 26.0 | 25.3 |
| 87.5° | 5.6 | 5.6 | 6.3 | 7.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P243158
 CATALOG NUMBER: S122DRP-H1005D835-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 | 21.12 | 22.64 | 21.48 | 22.95 | 23.27 | 23.96 | 25.48 | 24.32 | 25.79 | 26.11 |
| | 3H | 22.47 | 23.84 | 22.85 | 24.16 | 24.53 | 24.98 | 26.34 | 25.35 | 26.67 | 27.03 |
| | 4H | 22.96 | 24.24 | 23.35 | 24.59 | 24.96 | 25.30 | 26.58 | 25.70 | 26.93 | 27.31 |
| | 6H | 23.31 | 24.49 | 23.72 | 24.86 | 25.25 | 25.50 | 26.68 | 25.91 | 27.05 | 27.44 |
| | 8H | 23.41 | 24.54 | 23.84 | 24.93 | 25.33 | 25.54 | 26.67 | 25.97 | 27.06 | 27.46 |
| | 12H | 23.48 | 24.56 | 23.91 | 24.94 | 25.37 | 25.56 | 26.64 | 25.99 | 27.02 | 27.45 |
| 4H | 2H | 22.00 | 23.28 | 22.40 | 23.63 | 24.01 | 24.20 | 25.48 | 24.60 | 25.83 | 26.21 |
| | 3H | 23.50 | 24.56 | 23.91 | 24.96 | 25.36 | 25.57 | 26.63 | 25.98 | 27.03 | 27.43 |
| | 4H | 24.06 | 25.02 | 24.50 | 25.44 | 25.88 | 26.08 | 27.04 | 26.51 | 27.45 | 27.89 |
| | 6H | 24.50 | 25.34 | 24.96 | 25.78 | 26.24 | 26.41 | 27.25 | 26.87 | 27.69 | 28.15 |
| | 8H | 24.64 | 25.42 | 25.10 | 25.86 | 26.33 | 26.49 | 27.27 | 26.95 | 27.71 | 28.18 |
| | 12H | 24.74 | 25.43 | 25.22 | 25.91 | 26.38 | 26.53 | 27.22 | 27.01 | 27.70 | 28.17 |
| 8H | 4H | 24.50 | 25.28 | 24.97 | 25.72 | 26.19 | 26.22 | 27.00 | 26.68 | 27.44 | 27.91 |
| | 6H | 25.02 | 25.67 | 25.52 | 26.16 | 26.64 | 26.66 | 27.30 | 27.16 | 27.79 | 28.27 |
| | 8H | 25.21 | 25.79 | 25.72 | 26.30 | 26.78 | 26.79 | 27.37 | 27.31 | 27.88 | 28.37 |
| | 12H | 25.37 | 25.87 | 25.88 | 26.37 | 26.93 | 26.88 | 27.39 | 27.39 | 27.88 | 28.45 |
| 12H | 4H | 24.56 | 25.25 | 25.04 | 25.73 | 26.20 | 26.21 | 26.91 | 26.69 | 27.39 | 27.86 |
| | 6H | 25.10 | 25.68 | 25.62 | 26.19 | 26.68 | 26.66 | 27.24 | 27.18 | 27.75 | 28.24 |
| | 8H | 25.34 | 25.85 | 25.85 | 26.34 | 26.90 | 26.84 | 27.35 | 27.35 | 27.84 | 28.41 |