

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: P242586

Luminaire Tested: S123RDRP-S775D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S775D935-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

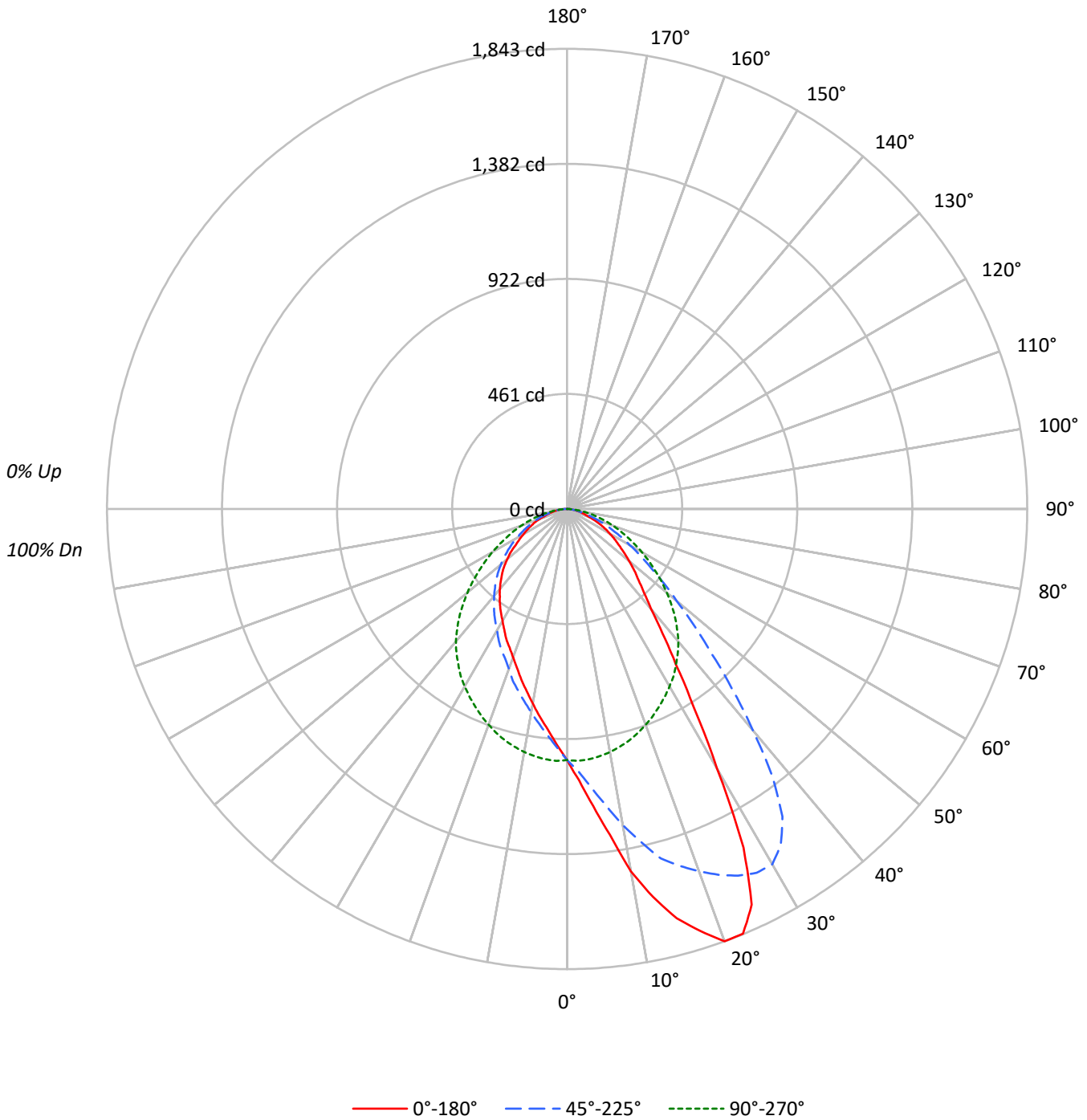
Lumens per Lamp: N/A
Luminaire Lumens: 2504.1 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
Input Voltage (V): 120
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: 24 FT

TEST NUMBER: P242586

CATALOG NUMBER: S123RDRP-S775D935-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P242586

CATALOG NUMBER: S123RDRP-S775D935-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 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | | | | | 87 | | | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | | | | | 74 | | | | |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | | | | | 64 | | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | | | | | 56 | | | | |
| 5 | 80 | 68 | 60 | 53 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | | | | | 50 | | | | |
| 6 | 74 | 62 | 53 | 47 | 72 | 61 | 53 | 47 | 59 | 52 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | | | | | 44 | | | | |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 53 | 46 | 42 | 51 | 46 | 41 | | | | | 39 | | | | |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 37 | | | | | 36 | | | | |
| 9 | 60 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 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 | | | | | 29 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 12190 | 12190 | 12190 | 12190 | 12190 |
| 5° | 14530 | 13630 | 12242 | 11053 | 10780 |
| 10° | 18144 | 15833 | 12172 | 10184 | 9739 |
| 15° | 21297 | 18184 | 12047 | 9471 | 8882 |
| 20° | 23768 | 19914 | 11862 | 8802 | 8152 |
| 25° | 23388 | 21672 | 11665 | 8338 | 7704 |
| 30° | 16811 | 22993 | 11484 | 7858 | 7243 |
| 35° | 11225 | 22245 | 11250 | 7530 | 6944 |
| 40° | 8269 | 18337 | 10967 | 7200 | 6635 |
| 45° | 6937 | 13991 | 10472 | 6893 | 6332 |
| 50° | 6121 | 10788 | 9823 | 6519 | 5910 |
| 55° | 5368 | 8607 | 9079 | 6133 | 5332 |
| 60° | 4781 | 7023 | 8371 | 5636 | 4885 |
| 65° | 4199 | 5753 | 7606 | 5197 | 4543 |
| 70° | 3296 | 4621 | 6929 | 4774 | 4150 |
| 75° | 2904 | 3409 | 6051 | 4313 | 3789 |
| 80° | 2527 | 2918 | 5138 | 3783 | 3727 |
| 85° | 2031 | 2211 | 4131 | 3838 | 3950 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 19689 cd/sqm



TEST NUMBER: P242586

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.8 | 3.9 |
| 10°-20° | 309.2 | 12.3 |
| 20°-30° | 486.9 | 19.4 |
| 30°-40° | 506.4 | 20.2 |
| 40°-50° | 433.2 | 17.3 |
| 50°-60° | 330.2 | 13.2 |
| 60°-70° | 211.5 | 8.4 |
| 70°-80° | 101.3 | 4.0 |
| 80°-90° | 26.7 | 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° | 894.8 | 35.7 |
| 0°-40° | 1401.2 | 56.0 |
| 0°-60° | 2164.6 | 86.4 |
| 0°-90° | 2504.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2504.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1006 | 1006 | 1006 | 1006 | 1006 | |
| 5° | 1194 | 1120 | 1006 | 908 | 886 | 122 |
| 15° | 1697 | 1449 | 960 | 755 | 708 | 481 |
| 25° | 1749 | 1620 | 872 | 623 | 576 | 760 |
| 35° | 759 | 1503 | 760 | 509 | 469 | 493 |
| 45° | 405 | 816 | 611 | 402 | 369 | 317 |
| 55° | 254 | 407 | 430 | 290 | 252 | 229 |
| 65° | 146 | 201 | 265 | 181 | 158 | 144 |
| 75° | 62 | 73 | 129 | 92 | 81 | 66 |
| 85° | 15 | 16 | 30 | 28 | 28 | 17 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242586

CATALOG NUMBER: S123RDRP-S775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 |
| 2.5° | 1087.5 | 1089.2 | 1083.6 | 1082.7 | 1076.3 | 1074.5 | 1074.5 | 1065.5 | 1059.9 | 1052.6 | 1048.3 |
| 5° | 1194.2 | 1201.1 | 1197.7 | 1189.9 | 1177.0 | 1174.0 | 1165.8 | 1152.9 | 1138.3 | 1120.2 | 1111.6 |
| 7.5° | 1316.5 | 1330.7 | 1328.1 | 1316.1 | 1302.3 | 1293.7 | 1270.9 | 1252.3 | 1224.4 | 1199.0 | 1179.2 |
| 10° | 1474.1 | 1464.2 | 1456.4 | 1444.8 | 1432.3 | 1412.1 | 1388.0 | 1354.8 | 1316.5 | 1286.4 | 1252.8 |
| 12.5° | 1592.0 | 1592.5 | 1582.1 | 1570.1 | 1551.1 | 1532.2 | 1501.2 | 1459.0 | 1412.9 | 1366.0 | 1326.4 |
| 15° | 1697.1 | 1699.6 | 1693.2 | 1680.7 | 1655.7 | 1621.7 | 1577.0 | 1560.2 | 1496.4 | 1449.1 | 1401.7 |
| 17.5° | 1772.0 | 1772.4 | 1771.1 | 1754.3 | 1727.2 | 1704.0 | 1662.2 | 1623.0 | 1562.7 | 1498.6 | 1435.3 |
| 20° | 1842.6 | 1838.3 | 1839.1 | 1819.8 | 1800.8 | 1772.8 | 1732.4 | 1668.2 | 1620.9 | 1543.8 | 1477.9 |
| 22.5° | 1840.9 | 1840.9 | 1844.7 | 1841.3 | 1828.8 | 1809.0 | 1779.3 | 1727.6 | 1663.9 | 1586.0 | 1509.8 |
| 25° | 1748.7 | 1745.3 | 1765.5 | 1771.1 | 1793.1 | 1796.9 | 1787.5 | 1757.8 | 1700.5 | 1620.4 | 1528.7 |
| 27.5° | 1529.2 | 1516.7 | 1558.9 | 1600.6 | 1656.2 | 1691.5 | 1727.6 | 1735.8 | 1708.7 | 1643.3 | 1547.2 |
| 30° | 1201.1 | 1241.6 | 1260.5 | 1328.5 | 1404.3 | 1494.7 | 1573.9 | 1649.3 | 1667.8 | 1642.8 | 1567.5 |
| 32.5° | 946.3 | 980.3 | 995.3 | 1051.3 | 1120.6 | 1230.4 | 1359.1 | 1473.6 | 1563.2 | 1593.3 | 1555.4 |
| 35° | 758.6 | 759.0 | 795.1 | 821.0 | 886.4 | 995.3 | 1110.7 | 1253.6 | 1395.7 | 1503.3 | 1514.5 |
| 37.5° | 626.0 | 627.7 | 650.9 | 676.8 | 729.3 | 790.4 | 897.6 | 1018.2 | 1189.1 | 1349.6 | 1433.2 |
| 40° | 522.6 | 526.5 | 542.9 | 568.3 | 603.6 | 647.1 | 726.3 | 838.2 | 975.1 | 1158.9 | 1309.2 |
| 42.5° | 456.3 | 463.2 | 469.7 | 487.8 | 506.3 | 546.3 | 606.6 | 686.7 | 808.1 | 979.4 | 1158.5 |
| 45° | 404.7 | 408.1 | 414.6 | 423.6 | 443.4 | 471.8 | 514.9 | 573.0 | 676.3 | 816.2 | 989.7 |
| 47.5° | 365.1 | 362.9 | 370.2 | 378.0 | 391.3 | 412.0 | 442.1 | 492.5 | 570.0 | 687.1 | 837.3 |
| 50° | 324.6 | 324.2 | 328.9 | 334.5 | 347.0 | 361.2 | 384.9 | 420.6 | 479.2 | 572.1 | 706.9 |
| 52.5° | 286.7 | 288.9 | 291.9 | 299.2 | 307.4 | 318.1 | 338.8 | 362.1 | 410.3 | 487.3 | 594.1 |
| 55° | 254.0 | 255.3 | 260.0 | 263.9 | 270.4 | 282.0 | 295.3 | 316.9 | 351.3 | 407.3 | 499.8 |
| 57.5° | 225.6 | 225.2 | 229.9 | 230.3 | 238.5 | 248.4 | 259.2 | 276.0 | 302.2 | 346.6 | 411.1 |
| 60° | 197.2 | 195.9 | 199.8 | 202.8 | 206.6 | 214.4 | 223.0 | 239.4 | 259.2 | 289.7 | 343.1 |
| 62.5° | 171.3 | 170.9 | 173.5 | 176.5 | 179.5 | 186.4 | 193.3 | 204.9 | 219.6 | 244.1 | 283.7 |
| 65° | 146.4 | 147.7 | 149.0 | 150.2 | 152.0 | 156.3 | 163.2 | 171.8 | 182.5 | 200.6 | 231.2 |
| 67.5° | 120.5 | 122.3 | 122.7 | 125.7 | 129.2 | 131.3 | 135.2 | 143.4 | 151.5 | 167.9 | 186.0 |
| 70° | 93.0 | 92.6 | 93.0 | 94.3 | 99.0 | 103.8 | 109.3 | 114.9 | 119.7 | 130.4 | 145.1 |
| 72.5° | 76.6 | 75.8 | 77.1 | 77.1 | 78.8 | 79.2 | 82.2 | 87.4 | 93.9 | 100.3 | 109.8 |
| 75° | 62.0 | 62.0 | 62.0 | 62.0 | 63.7 | 64.6 | 65.9 | 67.2 | 69.3 | 72.8 | 80.5 |
| 77.5° | 48.2 | 48.2 | 49.1 | 49.5 | 49.9 | 50.4 | 51.2 | 52.5 | 53.4 | 55.1 | 59.0 |
| 80° | 36.2 | 36.6 | 36.2 | 36.6 | 36.6 | 37.5 | 37.9 | 39.2 | 39.6 | 41.8 | 43.1 |
| 82.5° | 25.0 | 24.5 | 25.0 | 25.4 | 25.4 | 26.3 | 26.3 | 27.1 | 27.1 | 28.0 | 29.3 |
| 85° | 14.6 | 13.8 | 14.6 | 14.2 | 15.1 | 14.2 | 14.6 | 15.5 | 15.5 | 15.9 | 17.7 |
| 87.5° | 4.3 | 5.2 | 4.3 | 4.7 | 4.7 | 5.2 | 5.2 | 5.2 | 6.0 | 5.6 | 6.0 |
| 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: P242586

CATALOG NUMBER: S123RDRP-S775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 |
| 2.5° | 1046.6 | 1045.3 | 1039.2 | 1032.4 | 1023.3 | 1017.3 | 1012.6 | 1010.0 | 1002.2 | 992.8 | 986.3 |
| 5° | 1102.5 | 1089.6 | 1075.8 | 1059.1 | 1043.6 | 1027.6 | 1017.7 | 1006.1 | 991.9 | 976.0 | 964.8 |
| 7.5° | 1158.1 | 1135.7 | 1111.1 | 1085.7 | 1059.9 | 1037.1 | 1016.0 | 998.8 | 977.3 | 955.3 | 940.2 |
| 10° | 1223.9 | 1186.9 | 1148.6 | 1109.4 | 1073.7 | 1040.1 | 1014.3 | 988.9 | 961.8 | 935.5 | 915.7 |
| 12.5° | 1283.8 | 1232.1 | 1186.5 | 1136.1 | 1087.9 | 1046.1 | 1006.1 | 975.1 | 941.1 | 912.7 | 889.4 |
| 15° | 1332.4 | 1282.5 | 1229.1 | 1155.9 | 1095.2 | 1044.4 | 999.2 | 960.0 | 920.4 | 886.0 | 864.0 |
| 17.5° | 1383.2 | 1307.5 | 1237.3 | 1180.5 | 1101.2 | 1039.7 | 986.7 | 941.1 | 898.0 | 862.7 | 835.2 |
| 20° | 1412.5 | 1339.7 | 1261.8 | 1183.9 | 1106.4 | 1035.4 | 971.2 | 919.6 | 874.4 | 833.0 | 808.1 |
| 22.5° | 1430.1 | 1345.3 | 1262.3 | 1177.0 | 1093.5 | 1019.0 | 955.7 | 897.6 | 847.7 | 808.9 | 776.6 |
| 25° | 1443.1 | 1344.9 | 1254.5 | 1171.8 | 1087.9 | 1007.8 | 932.5 | 872.2 | 819.3 | 777.5 | 744.8 |
| 27.5° | 1453.4 | 1339.7 | 1236.0 | 1146.0 | 1061.2 | 979.8 | 911.8 | 847.2 | 794.3 | 750.8 | 715.1 |
| 30° | 1456.0 | 1333.3 | 1214.0 | 1114.6 | 1028.1 | 954.9 | 881.7 | 820.5 | 763.7 | 716.8 | 684.1 |
| 32.5° | 1459.4 | 1317.4 | 1184.3 | 1077.1 | 988.0 | 915.7 | 851.1 | 793.4 | 734.9 | 688.8 | 655.2 |
| 35° | 1447.4 | 1313.5 | 1154.2 | 1032.8 | 944.1 | 873.9 | 814.1 | 760.3 | 703.0 | 658.2 | 624.2 |
| 37.5° | 1410.8 | 1292.4 | 1124.1 | 983.3 | 891.6 | 827.0 | 777.1 | 728.0 | 675.0 | 626.0 | 594.5 |
| 40° | 1349.2 | 1257.9 | 1087.9 | 938.9 | 842.1 | 775.3 | 731.4 | 693.1 | 642.3 | 597.1 | 562.7 |
| 42.5° | 1257.5 | 1211.0 | 1053.5 | 892.4 | 786.1 | 722.4 | 687.1 | 651.8 | 608.7 | 562.7 | 530.8 |
| 45° | 1141.3 | 1148.6 | 1003.9 | 842.5 | 735.3 | 670.7 | 635.9 | 610.9 | 571.3 | 533.4 | 500.3 |
| 47.5° | 1000.1 | 1061.2 | 951.0 | 790.0 | 680.2 | 619.5 | 588.9 | 566.1 | 538.6 | 499.4 | 468.8 |
| 50° | 862.3 | 960.0 | 884.7 | 737.0 | 629.0 | 568.7 | 538.6 | 520.9 | 497.7 | 468.4 | 439.5 |
| 52.5° | 735.3 | 842.1 | 804.6 | 678.1 | 573.4 | 519.6 | 490.3 | 476.6 | 459.4 | 432.2 | 406.8 |
| 55° | 620.4 | 726.7 | 716.4 | 618.6 | 517.9 | 468.4 | 446.0 | 429.6 | 417.2 | 396.5 | 375.8 |
| 57.5° | 520.5 | 623.4 | 625.5 | 552.8 | 469.7 | 419.3 | 399.9 | 387.0 | 378.4 | 362.1 | 341.8 |
| 60° | 427.1 | 519.6 | 537.7 | 486.0 | 417.2 | 374.1 | 355.2 | 345.3 | 338.8 | 326.3 | 311.7 |
| 62.5° | 349.6 | 424.9 | 446.0 | 412.4 | 366.8 | 327.2 | 313.4 | 303.9 | 300.1 | 289.7 | 277.2 |
| 65° | 279.4 | 344.8 | 364.6 | 344.0 | 317.7 | 285.4 | 273.4 | 265.2 | 261.3 | 255.3 | 245.8 |
| 67.5° | 220.4 | 271.2 | 292.7 | 275.5 | 265.6 | 242.8 | 234.6 | 229.9 | 226.4 | 222.1 | 214.0 |
| 70° | 168.8 | 204.1 | 226.4 | 222.6 | 214.8 | 204.1 | 198.5 | 195.5 | 192.0 | 188.6 | 181.7 |
| 72.5° | 127.4 | 149.0 | 169.6 | 173.1 | 167.0 | 167.0 | 162.3 | 161.4 | 159.7 | 155.4 | 152.4 |
| 75° | 90.0 | 106.8 | 121.4 | 127.0 | 129.6 | 131.7 | 129.6 | 129.2 | 128.7 | 125.3 | 123.1 |
| 77.5° | 62.4 | 73.2 | 83.1 | 93.0 | 96.4 | 99.4 | 99.9 | 101.6 | 100.3 | 98.2 | 97.3 |
| 80° | 45.2 | 47.4 | 53.8 | 62.0 | 68.5 | 71.0 | 72.8 | 73.6 | 73.2 | 72.8 | 71.0 |
| 82.5° | 29.7 | 31.4 | 33.6 | 38.7 | 43.9 | 48.6 | 49.5 | 49.1 | 50.4 | 50.8 | 49.5 |
| 85° | 17.7 | 18.1 | 18.9 | 19.8 | 22.8 | 27.6 | 28.8 | 29.7 | 30.6 | 30.6 | 28.0 |
| 87.5° | 6.9 | 6.5 | 7.3 | 7.3 | 8.6 | 9.0 | 11.6 | 13.8 | 14.2 | 12.5 | 12.5 |
| 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: P242586

CATALOG NUMBER: S123RDRP-S775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 | 1005.7 |
| 2.5° | 984.1 | 978.5 | 974.7 | 966.1 | 960.5 | 954.4 | 948.4 | 952.3 | 951.9 | 951.4 | 951.4 |
| 5° | 955.3 | 945.4 | 936.4 | 924.7 | 917.4 | 908.4 | 901.5 | 900.6 | 902.3 | 896.3 | 892.9 |
| 7.5° | 928.2 | 915.3 | 902.3 | 890.3 | 876.9 | 866.6 | 860.2 | 857.6 | 852.8 | 849.0 | 845.5 |
| 10° | 899.3 | 883.4 | 870.9 | 855.0 | 840.4 | 827.4 | 819.3 | 813.7 | 810.6 | 807.6 | 802.0 |
| 12.5° | 869.6 | 854.1 | 837.3 | 818.8 | 805.1 | 789.6 | 784.0 | 777.5 | 771.0 | 767.6 | 759.4 |
| 15° | 840.8 | 820.5 | 803.8 | 784.8 | 769.3 | 754.7 | 746.1 | 733.6 | 731.9 | 727.6 | 719.8 |
| 17.5° | 812.8 | 790.4 | 765.9 | 753.0 | 737.5 | 722.0 | 708.2 | 704.3 | 691.4 | 687.1 | 679.8 |
| 20° | 778.4 | 758.1 | 740.5 | 722.0 | 696.6 | 682.4 | 672.0 | 666.4 | 656.5 | 650.5 | 646.2 |
| 22.5° | 748.7 | 728.0 | 706.9 | 684.5 | 664.7 | 648.3 | 641.5 | 632.0 | 627.7 | 618.6 | 613.9 |
| 25° | 720.7 | 698.3 | 673.7 | 650.5 | 635.4 | 623.4 | 611.3 | 603.6 | 595.8 | 591.9 | 583.3 |
| 27.5° | 686.7 | 664.3 | 640.6 | 622.5 | 605.3 | 593.2 | 581.6 | 575.2 | 565.3 | 558.8 | 554.1 |
| 30° | 659.5 | 632.0 | 612.2 | 596.3 | 572.6 | 561.4 | 553.2 | 544.6 | 537.7 | 530.8 | 526.1 |
| 32.5° | 628.1 | 603.6 | 585.1 | 564.4 | 547.6 | 535.1 | 523.9 | 516.6 | 511.0 | 504.6 | 499.8 |
| 35° | 595.0 | 573.9 | 554.5 | 534.7 | 521.3 | 508.9 | 496.4 | 489.9 | 484.3 | 478.3 | 474.0 |
| 37.5° | 564.8 | 545.0 | 526.9 | 508.0 | 491.6 | 480.9 | 470.5 | 466.2 | 458.5 | 454.2 | 449.9 |
| 40° | 537.3 | 517.9 | 498.1 | 480.0 | 462.8 | 455.0 | 446.0 | 438.7 | 431.8 | 428.8 | 424.1 |
| 42.5° | 507.1 | 487.8 | 471.8 | 452.0 | 438.7 | 427.5 | 419.3 | 411.1 | 406.4 | 401.7 | 399.5 |
| 45° | 477.4 | 460.2 | 443.9 | 424.5 | 411.1 | 402.1 | 392.6 | 385.3 | 380.6 | 377.6 | 372.8 |
| 47.5° | 449.0 | 431.4 | 415.0 | 397.8 | 384.9 | 374.5 | 364.6 | 359.9 | 353.4 | 350.0 | 346.6 |
| 50° | 417.6 | 402.1 | 384.4 | 368.9 | 356.0 | 345.7 | 337.9 | 331.5 | 325.9 | 321.2 | 319.0 |
| 52.5° | 388.7 | 372.0 | 357.3 | 343.1 | 329.3 | 317.3 | 310.4 | 303.5 | 299.6 | 294.0 | 291.5 |
| 55° | 356.5 | 340.5 | 327.6 | 313.4 | 300.1 | 290.2 | 281.6 | 275.5 | 271.2 | 265.2 | 261.7 |
| 57.5° | 326.8 | 313.0 | 297.1 | 284.6 | 270.4 | 262.6 | 255.3 | 246.7 | 241.5 | 236.8 | 233.3 |
| 60° | 296.6 | 280.3 | 266.9 | 255.3 | 243.2 | 232.5 | 226.0 | 219.6 | 214.0 | 209.2 | 206.2 |
| 62.5° | 265.2 | 251.4 | 238.9 | 226.0 | 215.3 | 206.2 | 198.5 | 193.3 | 188.6 | 186.0 | 183.0 |
| 65° | 232.9 | 221.7 | 208.8 | 198.5 | 188.1 | 181.2 | 175.2 | 170.5 | 167.0 | 164.9 | 162.3 |
| 67.5° | 203.2 | 192.4 | 180.8 | 170.1 | 163.2 | 157.6 | 153.3 | 149.0 | 147.2 | 144.7 | 142.9 |
| 70° | 174.4 | 163.2 | 153.3 | 145.5 | 138.6 | 134.7 | 132.2 | 129.2 | 127.4 | 124.0 | 122.3 |
| 72.5° | 142.9 | 135.6 | 129.2 | 123.1 | 118.0 | 114.5 | 111.1 | 107.2 | 104.2 | 100.3 | 98.6 |
| 75° | 117.5 | 110.2 | 104.6 | 100.3 | 96.9 | 92.1 | 87.4 | 83.5 | 82.2 | 80.9 | 80.5 |
| 77.5° | 91.7 | 87.0 | 82.7 | 79.2 | 74.5 | 70.2 | 68.9 | 68.0 | 67.6 | 66.7 | 66.7 |
| 80° | 68.5 | 64.1 | 61.1 | 56.8 | 54.2 | 54.2 | 54.2 | 53.4 | 53.8 | 53.8 | 53.8 |
| 82.5° | 46.5 | 42.6 | 41.3 | 40.5 | 40.5 | 40.9 | 40.9 | 41.3 | 40.9 | 41.8 | 41.3 |
| 85° | 26.3 | 26.7 | 27.6 | 27.1 | 27.6 | 27.6 | 28.4 | 28.0 | 28.4 | 27.6 | 28.4 |
| 87.5° | 12.1 | 13.3 | 13.8 | 14.2 | 14.6 | 14.2 | 14.6 | 14.6 | 15.1 | 15.1 | 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: P242586

CATALOG NUMBER: S123RDRP-S775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1005.7 | 1005.7 | 1005.7 | 1005.7 |
| 2.5° | 946.3 | 945.8 | 946.3 | 944.5 |
| 5° | 891.6 | 891.2 | 889.9 | 886.0 |
| 7.5° | 842.1 | 841.2 | 837.8 | 838.6 |
| 10° | 799.0 | 799.5 | 794.3 | 791.3 |
| 12.5° | 757.3 | 754.7 | 750.8 | 747.4 |
| 15° | 721.5 | 717.2 | 706.9 | 707.8 |
| 17.5° | 677.2 | 673.7 | 673.3 | 667.3 |
| 20° | 639.3 | 637.2 | 638.0 | 632.0 |
| 22.5° | 609.6 | 607.4 | 602.7 | 601.9 |
| 25° | 580.8 | 577.3 | 573.9 | 576.0 |
| 27.5° | 551.5 | 548.9 | 545.0 | 545.0 |
| 30° | 523.9 | 521.3 | 519.6 | 517.5 |
| 32.5° | 495.9 | 495.9 | 492.5 | 492.5 |
| 35° | 472.3 | 469.7 | 468.8 | 469.3 |
| 37.5° | 449.5 | 446.0 | 444.3 | 442.6 |
| 40° | 424.5 | 421.0 | 420.2 | 419.3 |
| 42.5° | 396.5 | 395.6 | 395.2 | 393.5 |
| 45° | 371.5 | 371.1 | 368.5 | 369.4 |
| 47.5° | 344.8 | 342.7 | 341.4 | 342.7 |
| 50° | 317.3 | 316.4 | 312.5 | 313.4 |
| 52.5° | 289.7 | 285.9 | 285.0 | 284.1 |
| 55° | 258.7 | 254.9 | 253.1 | 252.3 |
| 57.5° | 228.2 | 226.9 | 225.2 | 226.4 |
| 60° | 201.9 | 201.9 | 201.9 | 201.5 |
| 62.5° | 181.7 | 180.4 | 180.0 | 180.8 |
| 65° | 161.0 | 160.6 | 158.9 | 158.4 |
| 67.5° | 142.1 | 140.3 | 140.3 | 139.5 |
| 70° | 120.1 | 119.3 | 116.7 | 117.1 |
| 72.5° | 96.4 | 95.6 | 95.6 | 94.7 |
| 75° | 80.1 | 79.6 | 79.2 | 80.9 |
| 77.5° | 66.7 | 66.7 | 67.2 | 66.3 |
| 80° | 53.8 | 53.8 | 53.4 | 53.4 |
| 82.5° | 40.5 | 40.9 | 41.3 | 40.5 |
| 85° | 28.4 | 28.0 | 28.8 | 28.4 |
| 87.5° | 15.9 | 15.1 | 15.1 | 15.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P242586
 CATALOG NUMBER: S123RDRP-S775D935-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 | 16.33 | 17.82 | 16.69 | 18.13 | 18.45 | 19.72 | 21.22 | 20.09 | 21.53 | 21.84 |
| | 3H | 17.42 | 18.76 | 17.80 | 19.08 | 19.45 | 21.13 | 22.47 | 21.51 | 22.80 | 23.16 |
| | 4H | 17.75 | 19.01 | 18.15 | 19.36 | 19.74 | 21.63 | 22.89 | 22.03 | 23.23 | 23.61 |
| | 6H | 18.00 | 19.16 | 18.41 | 19.52 | 19.92 | 21.98 | 23.14 | 22.40 | 23.51 | 23.90 |
| | 8H | 18.07 | 19.17 | 18.50 | 19.56 | 19.96 | 22.08 | 23.18 | 22.51 | 23.57 | 23.98 |
| | 12H | 18.11 | 19.16 | 18.54 | 19.54 | 19.97 | 22.15 | 23.20 | 22.58 | 23.58 | 24.01 |
| 4H | 2H | 17.30 | 18.56 | 17.71 | 18.91 | 19.29 | 19.96 | 21.21 | 20.36 | 21.56 | 21.94 |
| | 3H | 18.47 | 19.51 | 18.89 | 19.91 | 20.31 | 21.65 | 22.69 | 22.06 | 23.09 | 23.49 |
| | 4H | 18.86 | 19.79 | 19.30 | 20.21 | 20.65 | 22.27 | 23.20 | 22.70 | 23.62 | 24.06 |
| | 6H | 19.17 | 19.98 | 19.63 | 20.43 | 20.89 | 22.73 | 23.54 | 23.19 | 23.99 | 24.45 |
| | 8H | 19.26 | 20.02 | 19.73 | 20.46 | 20.93 | 22.88 | 23.63 | 23.34 | 24.08 | 24.55 |
| | 12H | 19.32 | 20.00 | 19.80 | 20.47 | 20.95 | 22.98 | 23.65 | 23.46 | 24.13 | 24.60 |
| 8H | 4H | 19.23 | 19.98 | 19.69 | 20.43 | 20.90 | 22.32 | 23.08 | 22.78 | 23.52 | 23.99 |
| | 6H | 19.60 | 20.23 | 20.10 | 20.72 | 21.20 | 22.86 | 23.48 | 23.35 | 23.97 | 24.45 |
| | 8H | 19.74 | 20.29 | 20.25 | 20.81 | 21.29 | 23.05 | 23.61 | 23.56 | 24.12 | 24.61 |
| | 12H | 19.83 | 20.33 | 20.35 | 20.82 | 21.39 | 23.21 | 23.70 | 23.72 | 24.19 | 24.76 |
| 12H | 4H | 19.26 | 19.93 | 19.74 | 20.41 | 20.88 | 22.31 | 22.98 | 22.79 | 23.46 | 23.93 |
| | 6H | 19.65 | 20.21 | 20.16 | 20.72 | 21.21 | 22.84 | 23.40 | 23.36 | 23.91 | 24.40 |
| | 8H | 19.82 | 20.32 | 20.33 | 20.81 | 21.38 | 23.07 | 23.57 | 23.59 | 24.06 | 24.63 |