

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: P243500

Luminaire Tested: S124DRP-H795D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-60)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DRP-H795D835-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

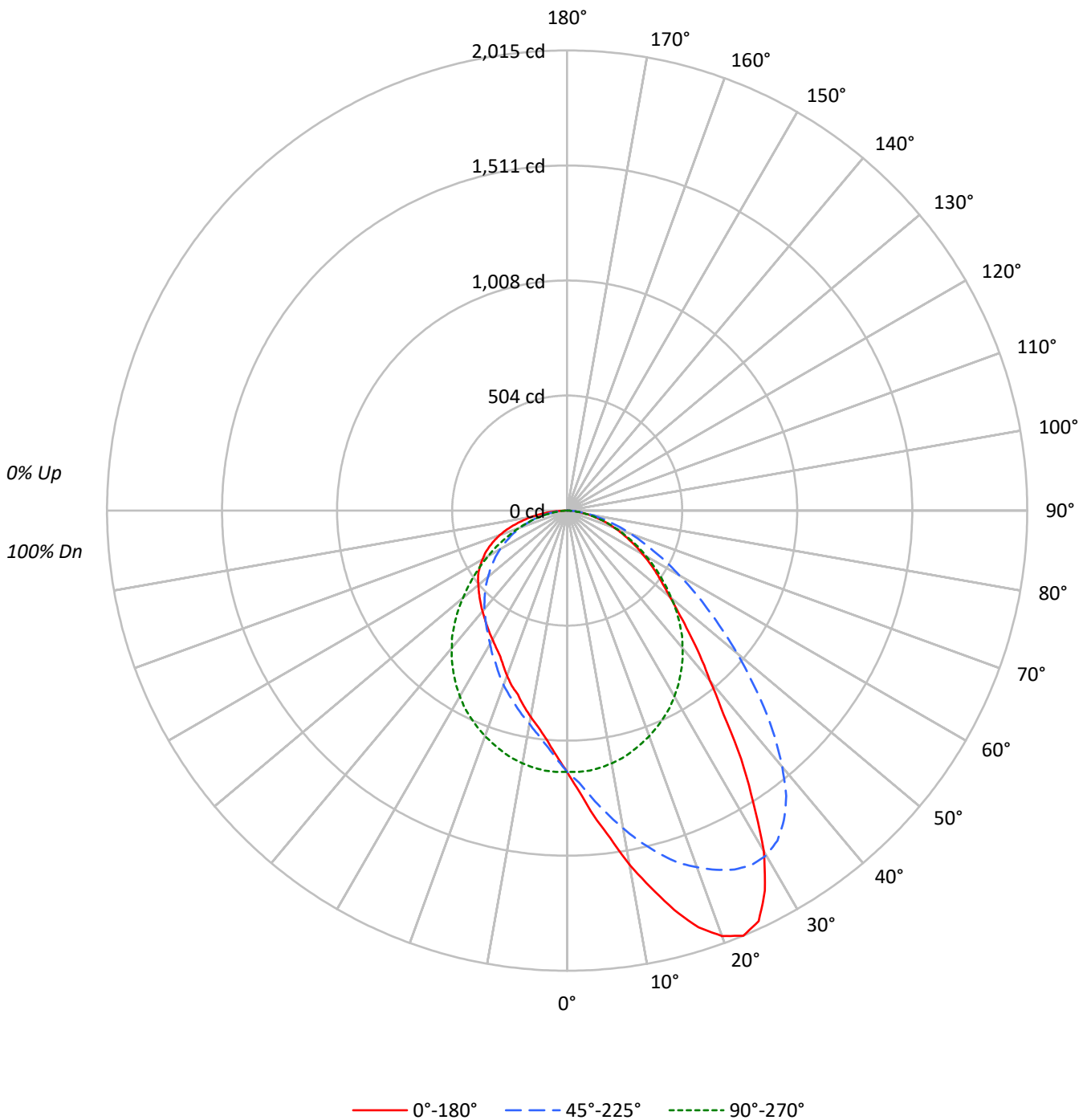
Lumens per Lamp: N/A
Luminaire Lumens: 3279.6 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.22 / 1.45
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
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: P243500

CATALOG NUMBER: S124DRP-H795D835-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243500

CATALOG NUMBER: S124DRP-H795D835-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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 94 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 80 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 64 | 72 | 67 | 63 | 61 | | | | | 61 | | | |
| 4 | 84 | 73 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 5 | 78 | 65 | 56 | 50 | 75 | 64 | 56 | 50 | 62 | 55 | 49 | 60 | 54 | 49 | 58 | 53 | 48 | 46 | | | | | 46 | | | |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 41 | | | | | 41 | | | |
| 7 | 67 | 53 | 45 | 39 | 65 | 53 | 45 | 39 | 51 | 44 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 36 | | | | | 36 | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 34 | 44 | 39 | 34 | 32 | | | | | 32 | | | |
| 9 | 58 | 45 | 37 | 31 | 57 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 | | | | | 29 | | | |
| 10 | 54 | 41 | 34 | 29 | 53 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 10167 | 10167 | 10167 | 10167 | 10167 |
| 5° | 11964 | 11280 | 10193 | 9215 | 8998 |
| 10° | 14217 | 12755 | 10147 | 8562 | 8284 |
| 15° | 16652 | 14306 | 10057 | 8094 | 7673 |
| 20° | 18750 | 15721 | 9941 | 7689 | 7278 |
| 25° | 19460 | 17010 | 9808 | 7253 | 6850 |
| 30° | 17672 | 17892 | 9641 | 6929 | 6698 |
| 35° | 14417 | 17963 | 9412 | 6697 | 6656 |
| 40° | 11289 | 17004 | 9117 | 6539 | 6685 |
| 45° | 9448 | 15335 | 8751 | 6391 | 6807 |
| 50° | 8109 | 13408 | 8238 | 6249 | 7011 |
| 55° | 7408 | 11618 | 7684 | 6142 | 7350 |
| 60° | 6789 | 10084 | 7113 | 6043 | 7620 |
| 65° | 6226 | 8739 | 6510 | 5843 | 7915 |
| 70° | 5725 | 7656 | 5874 | 5653 | 8153 |
| 75° | 5100 | 6591 | 5162 | 5275 | 8146 |
| 80° | 4254 | 5354 | 4228 | 4873 | 8124 |
| 85° | 3233 | 3998 | 3192 | 4375 | 7619 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 16027 cd/sqm



TEST NUMBER: P243500

CATALOG NUMBER: S124DRP-H795D835-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.3 | 3.4 |
| 10°-20° | 344.8 | 10.5 |
| 20°-30° | 553.9 | 16.9 |
| 30°-40° | 633.2 | 19.3 |
| 40°-50° | 582.9 | 17.8 |
| 50°-60° | 476.8 | 14.5 |
| 60°-70° | 339.8 | 10.4 |
| 70°-80° | 186.7 | 5.7 |
| 80°-90° | 50.2 | 1.5 |
| 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° | 1010.1 | 30.8 |
| 0°-40° | 1643.3 | 50.1 |
| 0°-60° | 2702.9 | 82.4 |
| 0°-90° | 3279.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3279.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1144 | 1144 | 1144 | 1144 | 1144 | |
| 5° | 1341 | 1264 | 1142 | 1033 | 1008 | 135 |
| 15° | 1810 | 1555 | 1093 | 880 | 834 | 516 |
| 25° | 1984 | 1734 | 1000 | 740 | 698 | 891 |
| 35° | 1329 | 1655 | 867 | 617 | 613 | 826 |
| 45° | 752 | 1220 | 696 | 508 | 542 | 587 |
| 55° | 478 | 750 | 496 | 396 | 474 | 429 |
| 65° | 296 | 416 | 310 | 278 | 376 | 296 |
| 75° | 148 | 192 | 150 | 154 | 237 | 159 |
| 85° | 32 | 39 | 31 | 43 | 75 | 38 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243500

CATALOG NUMBER: S124DRP-H795D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 |
| 2.5° | 1231.5 | 1227.8 | 1225.9 | 1223.6 | 1223.1 | 1220.8 | 1216.1 | 1209.6 | 1201.2 | 1192.3 | 1192.3 |
| 5° | 1340.8 | 1339.8 | 1332.8 | 1333.3 | 1324.4 | 1314.6 | 1307.2 | 1297.8 | 1279.6 | 1264.2 | 1253.5 |
| 7.5° | 1445.3 | 1455.1 | 1452.8 | 1445.3 | 1432.3 | 1418.3 | 1403.3 | 1390.3 | 1356.6 | 1338.0 | 1322.6 |
| 10° | 1575.1 | 1578.9 | 1572.3 | 1561.6 | 1549.9 | 1522.8 | 1503.2 | 1481.3 | 1444.9 | 1413.1 | 1385.1 |
| 12.5° | 1689.0 | 1697.9 | 1686.2 | 1676.0 | 1648.4 | 1628.3 | 1608.7 | 1564.8 | 1526.6 | 1486.4 | 1445.8 |
| 15° | 1809.5 | 1800.1 | 1806.2 | 1781.0 | 1761.4 | 1742.2 | 1692.3 | 1647.5 | 1604.1 | 1554.6 | 1512.1 |
| 17.5° | 1914.0 | 1914.0 | 1902.8 | 1886.5 | 1866.0 | 1830.0 | 1780.1 | 1730.6 | 1682.5 | 1617.6 | 1557.4 |
| 20° | 1982.2 | 1987.3 | 1974.3 | 1957.0 | 1932.3 | 1894.9 | 1855.2 | 1801.5 | 1737.6 | 1662.0 | 1593.8 |
| 22.5° | 2014.9 | 2015.8 | 2011.1 | 1996.7 | 1976.6 | 1944.9 | 1904.2 | 1852.0 | 1784.3 | 1703.0 | 1631.6 |
| 25° | 1984.1 | 1989.2 | 1987.8 | 1986.9 | 1976.6 | 1958.4 | 1925.7 | 1877.2 | 1815.5 | 1734.3 | 1657.3 |
| 27.5° | 1875.8 | 1888.4 | 1899.1 | 1903.8 | 1915.0 | 1915.9 | 1906.1 | 1876.7 | 1826.3 | 1749.7 | 1663.8 |
| 30° | 1721.7 | 1715.2 | 1744.1 | 1758.6 | 1796.9 | 1819.7 | 1836.1 | 1834.2 | 1805.3 | 1743.2 | 1661.5 |
| 32.5° | 1516.3 | 1534.0 | 1554.6 | 1588.7 | 1633.9 | 1687.2 | 1727.3 | 1757.2 | 1754.4 | 1713.8 | 1645.6 |
| 35° | 1328.6 | 1328.6 | 1354.8 | 1396.8 | 1444.9 | 1508.8 | 1576.1 | 1631.6 | 1665.7 | 1655.4 | 1607.3 |
| 37.5° | 1125.1 | 1137.7 | 1167.6 | 1200.2 | 1259.1 | 1320.7 | 1409.4 | 1483.2 | 1554.6 | 1576.1 | 1551.3 |
| 40° | 972.9 | 978.5 | 1010.2 | 1037.8 | 1098.0 | 1162.0 | 1236.2 | 1330.5 | 1412.7 | 1465.4 | 1468.7 |
| 42.5° | 859.9 | 859.5 | 872.5 | 897.3 | 945.8 | 1002.8 | 1083.1 | 1175.5 | 1271.7 | 1346.4 | 1381.4 |
| 45° | 751.6 | 750.7 | 764.2 | 789.4 | 824.0 | 874.4 | 944.0 | 1036.4 | 1134.9 | 1219.9 | 1274.9 |
| 47.5° | 660.1 | 668.5 | 674.6 | 694.2 | 722.7 | 765.6 | 825.4 | 899.1 | 993.9 | 1089.1 | 1163.4 |
| 50° | 586.4 | 590.1 | 603.2 | 612.5 | 644.2 | 674.1 | 722.2 | 788.5 | 869.7 | 969.6 | 1049.9 |
| 52.5° | 527.5 | 529.9 | 537.8 | 549.9 | 568.1 | 594.3 | 632.6 | 693.7 | 767.0 | 853.9 | 936.9 |
| 55° | 478.0 | 476.6 | 481.8 | 489.7 | 505.6 | 527.5 | 555.5 | 602.2 | 666.2 | 749.7 | 826.3 |
| 57.5° | 429.5 | 429.5 | 434.2 | 439.8 | 448.6 | 466.8 | 494.4 | 531.3 | 582.6 | 656.8 | 724.5 |
| 60° | 381.9 | 385.1 | 387.0 | 392.6 | 400.1 | 413.6 | 434.2 | 463.1 | 506.5 | 567.2 | 634.4 |
| 62.5° | 339.9 | 339.9 | 343.1 | 345.0 | 354.8 | 364.6 | 379.5 | 404.3 | 438.4 | 492.5 | 544.8 |
| 65° | 296.0 | 298.8 | 298.8 | 302.5 | 310.9 | 318.4 | 330.1 | 348.7 | 376.7 | 415.5 | 464.5 |
| 67.5° | 258.6 | 258.6 | 261.0 | 262.8 | 267.5 | 272.6 | 282.9 | 297.4 | 321.2 | 352.0 | 396.3 |
| 70° | 220.3 | 221.7 | 220.8 | 223.1 | 226.0 | 231.1 | 238.6 | 250.7 | 268.0 | 294.6 | 327.3 |
| 72.5° | 185.8 | 183.9 | 184.9 | 187.2 | 188.6 | 191.9 | 196.5 | 205.9 | 219.9 | 241.4 | 265.2 |
| 75° | 148.5 | 147.5 | 150.8 | 149.9 | 152.2 | 155.0 | 159.2 | 166.2 | 176.9 | 191.9 | 210.1 |
| 77.5° | 115.8 | 114.4 | 115.8 | 116.7 | 117.6 | 120.0 | 123.2 | 127.4 | 134.9 | 144.7 | 161.1 |
| 80° | 83.1 | 82.6 | 83.6 | 84.5 | 85.0 | 88.7 | 89.6 | 93.8 | 97.1 | 104.6 | 112.5 |
| 82.5° | 55.1 | 56.0 | 56.5 | 57.4 | 57.0 | 58.8 | 59.8 | 62.6 | 65.4 | 69.1 | 75.2 |
| 85° | 31.7 | 30.3 | 31.7 | 31.7 | 31.7 | 34.1 | 33.6 | 35.5 | 37.3 | 39.2 | 43.4 |
| 87.5° | 11.2 | 11.2 | 11.7 | 12.1 | 12.1 | 13.5 | 13.1 | 14.0 | 15.9 | 15.9 | 17.3 |
| 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: P243500

CATALOG NUMBER: S124DRP-H795D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 |
| 2.5° | 1189.5 | 1184.4 | 1180.6 | 1169.9 | 1163.4 | 1157.3 | 1151.7 | 1145.6 | 1139.1 | 1130.7 | 1125.6 |
| 5° | 1242.3 | 1231.1 | 1214.7 | 1199.8 | 1183.0 | 1168.0 | 1155.9 | 1142.4 | 1127.4 | 1112.0 | 1098.5 |
| 7.5° | 1300.6 | 1279.6 | 1254.4 | 1226.9 | 1200.7 | 1178.8 | 1155.9 | 1134.4 | 1113.4 | 1092.9 | 1073.7 |
| 10° | 1359.0 | 1322.6 | 1289.4 | 1251.6 | 1217.1 | 1183.9 | 1154.0 | 1124.2 | 1098.0 | 1070.9 | 1046.7 |
| 12.5° | 1413.1 | 1369.2 | 1320.7 | 1273.5 | 1227.3 | 1184.4 | 1147.5 | 1111.1 | 1077.5 | 1045.3 | 1016.8 |
| 15° | 1454.7 | 1399.6 | 1342.2 | 1286.1 | 1232.9 | 1188.1 | 1140.0 | 1092.9 | 1057.9 | 1018.6 | 987.4 |
| 17.5° | 1502.3 | 1436.9 | 1380.0 | 1312.8 | 1246.5 | 1174.1 | 1123.2 | 1071.9 | 1029.9 | 992.0 | 960.8 |
| 20° | 1534.0 | 1462.1 | 1380.0 | 1303.9 | 1235.7 | 1170.8 | 1109.7 | 1050.9 | 1006.5 | 962.6 | 924.8 |
| 22.5° | 1559.2 | 1485.0 | 1394.5 | 1315.1 | 1229.7 | 1151.2 | 1084.9 | 1027.0 | 974.8 | 933.2 | 897.3 |
| 25° | 1572.3 | 1481.8 | 1395.4 | 1299.2 | 1213.8 | 1138.6 | 1063.9 | 1000.0 | 947.2 | 901.0 | 870.2 |
| 27.5° | 1572.8 | 1479.9 | 1377.6 | 1282.4 | 1190.9 | 1109.7 | 1035.9 | 972.9 | 913.6 | 869.3 | 832.4 |
| 30° | 1570.5 | 1467.7 | 1359.9 | 1255.8 | 1164.8 | 1081.7 | 1004.6 | 939.3 | 885.1 | 838.0 | 803.0 |
| 32.5° | 1555.5 | 1450.9 | 1333.3 | 1224.1 | 1125.1 | 1041.5 | 970.6 | 905.7 | 847.8 | 804.8 | 768.0 |
| 35° | 1521.9 | 1414.1 | 1295.9 | 1183.4 | 1089.6 | 1002.8 | 932.7 | 867.4 | 815.6 | 768.9 | 731.1 |
| 37.5° | 1479.0 | 1378.1 | 1258.1 | 1140.5 | 1039.2 | 957.0 | 891.2 | 829.6 | 775.4 | 732.5 | 694.7 |
| 40° | 1424.8 | 1330.0 | 1211.9 | 1089.6 | 988.3 | 905.2 | 843.1 | 785.7 | 739.5 | 695.6 | 658.7 |
| 42.5° | 1350.6 | 1277.7 | 1156.4 | 1037.3 | 931.3 | 852.9 | 792.7 | 745.1 | 697.5 | 657.8 | 620.9 |
| 45° | 1271.2 | 1204.9 | 1097.1 | 979.0 | 877.2 | 796.4 | 739.9 | 696.1 | 655.4 | 615.3 | 585.4 |
| 47.5° | 1183.4 | 1129.3 | 1029.4 | 914.1 | 813.7 | 742.3 | 686.7 | 647.5 | 610.2 | 579.3 | 549.5 |
| 50° | 1078.9 | 1050.4 | 957.0 | 852.5 | 754.9 | 681.6 | 635.8 | 595.7 | 568.1 | 538.3 | 510.3 |
| 52.5° | 981.8 | 958.9 | 882.8 | 780.1 | 691.4 | 627.0 | 577.9 | 546.2 | 519.1 | 497.2 | 474.8 |
| 55° | 876.3 | 864.6 | 800.2 | 711.5 | 631.2 | 566.7 | 524.7 | 495.8 | 474.3 | 453.8 | 437.4 |
| 57.5° | 779.2 | 778.2 | 721.3 | 645.2 | 566.7 | 512.1 | 472.0 | 448.2 | 429.5 | 415.0 | 401.0 |
| 60° | 679.7 | 687.7 | 641.0 | 571.4 | 509.3 | 458.0 | 421.6 | 400.1 | 387.5 | 373.9 | 362.3 |
| 62.5° | 589.6 | 601.8 | 559.3 | 504.7 | 443.5 | 401.5 | 373.5 | 357.1 | 343.1 | 333.3 | 324.5 |
| 65° | 503.3 | 518.7 | 484.1 | 435.1 | 388.4 | 348.7 | 324.9 | 309.5 | 298.8 | 293.2 | 287.1 |
| 67.5° | 427.2 | 435.6 | 412.2 | 373.9 | 335.2 | 300.6 | 281.0 | 267.5 | 258.2 | 255.8 | 248.8 |
| 70° | 351.1 | 360.9 | 344.5 | 309.5 | 279.6 | 254.4 | 236.7 | 226.0 | 220.3 | 217.1 | 212.4 |
| 72.5° | 289.9 | 294.1 | 277.8 | 253.5 | 229.7 | 208.7 | 195.6 | 187.7 | 181.1 | 179.7 | 177.4 |
| 75° | 226.9 | 233.0 | 219.9 | 201.2 | 181.6 | 166.7 | 156.9 | 150.3 | 147.1 | 144.7 | 144.7 |
| 77.5° | 171.3 | 176.5 | 169.0 | 152.7 | 141.0 | 127.9 | 121.4 | 115.3 | 113.9 | 111.6 | 112.5 |
| 80° | 121.8 | 124.2 | 120.0 | 108.8 | 98.5 | 91.5 | 85.9 | 82.6 | 82.2 | 80.3 | 82.2 |
| 82.5° | 80.8 | 81.2 | 76.6 | 71.4 | 63.5 | 59.8 | 56.0 | 54.6 | 54.2 | 54.2 | 53.2 |
| 85° | 44.8 | 45.8 | 42.5 | 39.2 | 36.4 | 33.1 | 32.2 | 31.3 | 30.3 | 31.7 | 32.7 |
| 87.5° | 17.3 | 17.7 | 17.3 | 15.9 | 14.9 | 14.0 | 13.5 | 14.5 | 13.1 | 14.0 | 14.5 |
| 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: P243500

CATALOG NUMBER: S124DRP-H795D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 | 1143.8 |
| 2.5° | 1117.6 | 1113.9 | 1108.3 | 1098.9 | 1092.4 | 1085.4 | 1082.6 | 1083.5 | 1080.7 | 1077.0 | 1077.9 |
| 5° | 1088.2 | 1077.5 | 1068.1 | 1055.1 | 1042.9 | 1032.7 | 1029.4 | 1025.2 | 1021.4 | 1019.1 | 1016.8 |
| 7.5° | 1056.9 | 1042.0 | 1028.0 | 1014.9 | 1000.9 | 987.8 | 982.7 | 979.0 | 977.1 | 970.6 | 967.8 |
| 10° | 1027.0 | 1009.8 | 993.0 | 977.6 | 963.1 | 948.6 | 943.5 | 938.8 | 932.3 | 929.5 | 926.2 |
| 12.5° | 995.3 | 978.0 | 959.8 | 941.2 | 926.7 | 915.0 | 906.1 | 902.9 | 896.3 | 893.5 | 891.7 |
| 15° | 964.5 | 943.5 | 929.0 | 914.5 | 892.6 | 879.5 | 875.8 | 864.1 | 860.4 | 854.8 | 851.1 |
| 17.5° | 933.7 | 914.1 | 892.6 | 875.8 | 862.3 | 845.9 | 837.0 | 831.9 | 824.9 | 819.8 | 812.8 |
| 20° | 903.3 | 880.5 | 863.7 | 842.6 | 827.7 | 812.8 | 801.6 | 796.9 | 790.8 | 783.8 | 774.0 |
| 22.5° | 873.9 | 848.7 | 832.4 | 812.8 | 794.1 | 776.8 | 767.5 | 761.0 | 748.8 | 747.4 | 738.5 |
| 25° | 839.4 | 817.0 | 795.5 | 775.0 | 756.7 | 739.5 | 733.4 | 723.1 | 718.9 | 710.5 | 709.1 |
| 27.5° | 806.7 | 782.9 | 759.5 | 737.1 | 721.3 | 709.1 | 698.4 | 691.9 | 687.7 | 681.1 | 681.6 |
| 30° | 772.6 | 746.5 | 724.5 | 704.0 | 686.7 | 675.1 | 668.0 | 664.8 | 658.7 | 657.8 | 654.5 |
| 32.5° | 736.2 | 712.4 | 689.5 | 671.3 | 653.6 | 643.3 | 640.0 | 636.8 | 633.0 | 633.5 | 632.6 |
| 35° | 699.8 | 678.8 | 654.5 | 637.7 | 623.2 | 617.2 | 612.0 | 611.1 | 609.7 | 610.6 | 610.6 |
| 37.5° | 664.3 | 641.4 | 621.4 | 606.0 | 597.6 | 589.2 | 586.8 | 586.4 | 586.8 | 587.8 | 590.1 |
| 40° | 629.8 | 608.8 | 589.2 | 576.5 | 567.2 | 563.5 | 560.2 | 561.6 | 563.5 | 566.7 | 569.5 |
| 42.5° | 595.2 | 575.1 | 558.8 | 546.2 | 537.3 | 535.5 | 535.9 | 538.7 | 539.2 | 543.9 | 549.0 |
| 45° | 558.8 | 541.5 | 526.1 | 516.3 | 510.7 | 508.4 | 509.3 | 512.1 | 515.4 | 521.9 | 528.5 |
| 47.5° | 525.2 | 509.8 | 496.3 | 486.4 | 482.2 | 481.3 | 483.2 | 486.9 | 494.4 | 500.9 | 508.4 |
| 50° | 491.1 | 477.1 | 464.5 | 455.6 | 455.2 | 451.9 | 456.1 | 460.8 | 469.6 | 478.5 | 489.7 |
| 52.5° | 457.5 | 444.0 | 433.2 | 426.2 | 424.4 | 424.4 | 429.5 | 437.9 | 445.8 | 457.5 | 467.8 |
| 55° | 422.5 | 410.4 | 400.1 | 397.7 | 394.9 | 396.3 | 401.9 | 410.4 | 421.6 | 434.6 | 445.8 |
| 57.5° | 386.5 | 376.3 | 368.8 | 365.5 | 364.1 | 368.8 | 375.3 | 384.2 | 398.7 | 411.8 | 423.9 |
| 60° | 352.5 | 343.6 | 335.7 | 334.7 | 333.8 | 339.9 | 347.8 | 357.1 | 371.6 | 384.7 | 399.6 |
| 62.5° | 316.1 | 309.0 | 303.9 | 302.5 | 302.5 | 308.6 | 317.5 | 329.6 | 343.1 | 357.1 | 373.0 |
| 65° | 279.2 | 273.1 | 271.7 | 269.8 | 274.0 | 277.8 | 286.6 | 298.3 | 312.8 | 328.2 | 345.0 |
| 67.5° | 245.1 | 241.4 | 238.6 | 238.6 | 241.8 | 248.8 | 256.8 | 268.4 | 283.4 | 299.7 | 314.7 |
| 70° | 211.0 | 207.3 | 204.9 | 207.3 | 209.1 | 217.5 | 226.0 | 237.2 | 251.2 | 267.0 | 282.9 |
| 72.5° | 175.5 | 176.0 | 176.5 | 176.0 | 177.9 | 185.8 | 194.2 | 204.9 | 218.5 | 233.9 | 248.4 |
| 75° | 144.3 | 141.9 | 142.4 | 143.3 | 149.4 | 153.6 | 162.0 | 172.3 | 186.7 | 200.7 | 212.9 |
| 77.5° | 112.0 | 111.1 | 113.4 | 113.4 | 119.0 | 124.2 | 131.2 | 141.5 | 154.1 | 166.7 | 176.5 |
| 80° | 82.2 | 82.6 | 84.5 | 85.0 | 89.6 | 95.2 | 102.7 | 109.7 | 120.9 | 129.8 | 139.1 |
| 82.5° | 55.6 | 56.5 | 58.8 | 62.1 | 64.0 | 67.2 | 73.8 | 81.2 | 89.2 | 98.5 | 104.1 |
| 85° | 32.2 | 33.6 | 35.5 | 37.8 | 39.7 | 42.9 | 47.6 | 53.7 | 59.3 | 64.4 | 69.1 |
| 87.5° | 15.9 | 15.9 | 17.3 | 18.2 | 19.6 | 21.5 | 24.7 | 27.1 | 30.8 | 34.5 | 36.4 |
| 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: P243500

CATALOG NUMBER: S124DRP-H795D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1143.8 | 1143.8 | 1143.8 | 1143.8 |
| 2.5° | 1076.1 | 1075.6 | 1073.7 | 1074.7 |
| 5° | 1015.4 | 1010.7 | 1010.2 | 1008.4 |
| 7.5° | 963.1 | 961.7 | 961.7 | 958.0 |
| 10° | 922.9 | 918.7 | 919.7 | 917.8 |
| 12.5° | 884.7 | 882.3 | 879.5 | 876.7 |
| 15° | 841.7 | 841.7 | 841.7 | 833.8 |
| 17.5° | 808.1 | 807.6 | 805.3 | 804.8 |
| 20° | 773.1 | 771.2 | 765.2 | 769.4 |
| 22.5° | 737.6 | 736.2 | 731.1 | 732.0 |
| 25° | 704.5 | 703.1 | 702.1 | 698.4 |
| 27.5° | 676.0 | 676.5 | 677.4 | 675.1 |
| 30° | 654.5 | 653.1 | 655.0 | 652.6 |
| 32.5° | 634.4 | 634.4 | 632.6 | 633.0 |
| 35° | 611.6 | 613.4 | 613.9 | 613.4 |
| 37.5° | 591.5 | 593.8 | 595.7 | 593.8 |
| 40° | 572.8 | 574.7 | 576.5 | 576.1 |
| 42.5° | 553.2 | 556.5 | 557.9 | 559.3 |
| 45° | 534.5 | 538.7 | 541.1 | 541.5 |
| 47.5° | 515.4 | 520.5 | 525.2 | 524.7 |
| 50° | 496.7 | 503.3 | 507.5 | 507.0 |
| 52.5° | 478.0 | 484.6 | 489.7 | 492.0 |
| 55° | 457.0 | 465.4 | 470.1 | 474.3 |
| 57.5° | 436.0 | 445.4 | 450.0 | 451.9 |
| 60° | 412.7 | 421.1 | 427.2 | 428.6 |
| 62.5° | 386.5 | 395.4 | 403.4 | 405.2 |
| 65° | 359.5 | 369.3 | 375.3 | 376.3 |
| 67.5° | 328.2 | 337.5 | 343.6 | 346.4 |
| 70° | 296.0 | 303.0 | 309.5 | 313.7 |
| 72.5° | 260.0 | 268.4 | 274.5 | 277.3 |
| 75° | 222.7 | 232.0 | 235.3 | 237.2 |
| 77.5° | 183.9 | 189.5 | 194.7 | 195.1 |
| 80° | 145.2 | 152.2 | 154.1 | 158.7 |
| 82.5° | 106.9 | 113.4 | 112.0 | 113.9 |
| 85° | 70.5 | 72.8 | 74.2 | 74.7 |
| 87.5° | 37.3 | 38.7 | 39.7 | 40.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P243500
 CATALOG NUMBER: S124DRP-H795D835-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 | 18.63 | 20.20 | 18.99 | 20.51 | 20.83 | 18.91 | 20.48 | 19.28 | 20.80 | 21.11 |
| | 3H | 20.07 | 21.48 | 20.44 | 21.81 | 22.17 | 20.30 | 21.71 | 20.68 | 22.04 | 22.40 |
| | 4H | 20.59 | 21.92 | 20.99 | 22.26 | 22.64 | 20.78 | 22.11 | 21.18 | 22.46 | 22.84 |
| | 6H | 20.93 | 22.16 | 21.34 | 22.53 | 22.92 | 21.10 | 22.33 | 21.51 | 22.70 | 23.09 |
| | 8H | 21.03 | 22.20 | 21.45 | 22.59 | 22.99 | 21.18 | 22.36 | 21.61 | 22.75 | 23.15 |
| | 12H | 21.08 | 22.20 | 21.51 | 22.59 | 23.01 | 21.23 | 22.35 | 21.66 | 22.73 | 23.16 |
| 4H | 2H | 19.76 | 21.09 | 20.16 | 21.44 | 21.82 | 19.70 | 21.03 | 20.10 | 21.38 | 21.76 |
| | 3H | 21.27 | 22.38 | 21.68 | 22.77 | 23.17 | 21.41 | 22.52 | 21.82 | 22.92 | 23.32 |
| | 4H | 21.84 | 22.84 | 22.27 | 23.25 | 23.69 | 22.00 | 23.00 | 22.43 | 23.42 | 23.85 |
| | 6H | 22.25 | 23.12 | 22.71 | 23.57 | 24.02 | 22.40 | 23.28 | 22.86 | 23.72 | 24.18 |
| | 8H | 22.37 | 23.19 | 22.83 | 23.63 | 24.10 | 22.51 | 23.33 | 22.97 | 23.77 | 24.24 |
| | 12H | 22.44 | 23.17 | 22.92 | 23.65 | 24.12 | 22.58 | 23.31 | 23.06 | 23.79 | 24.26 |
| 8H | 4H | 22.27 | 23.08 | 22.73 | 23.53 | 23.99 | 22.34 | 23.16 | 22.80 | 23.60 | 24.07 |
| | 6H | 22.76 | 23.44 | 23.26 | 23.93 | 24.41 | 22.87 | 23.55 | 23.37 | 24.04 | 24.52 |
| | 8H | 22.93 | 23.53 | 23.44 | 24.04 | 24.53 | 23.04 | 23.65 | 23.55 | 24.15 | 24.64 |
| | 12H | 23.04 | 23.58 | 23.55 | 24.07 | 24.63 | 23.15 | 23.69 | 23.66 | 24.18 | 24.74 |
| 12H | 4H | 22.31 | 23.04 | 22.79 | 23.52 | 23.99 | 22.38 | 23.11 | 22.86 | 23.59 | 24.06 |
| | 6H | 22.83 | 23.44 | 23.34 | 23.95 | 24.43 | 22.94 | 23.54 | 23.45 | 24.05 | 24.54 |
| | 8H | 23.04 | 23.58 | 23.55 | 24.07 | 24.63 | 23.16 | 23.70 | 23.67 | 24.19 | 24.75 |