

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: P242812

Luminaire Tested: S125DRP-S850D835-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DRP-S850D835-X4F0-XX-UDD-A-W
Description: DEFINE 5 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

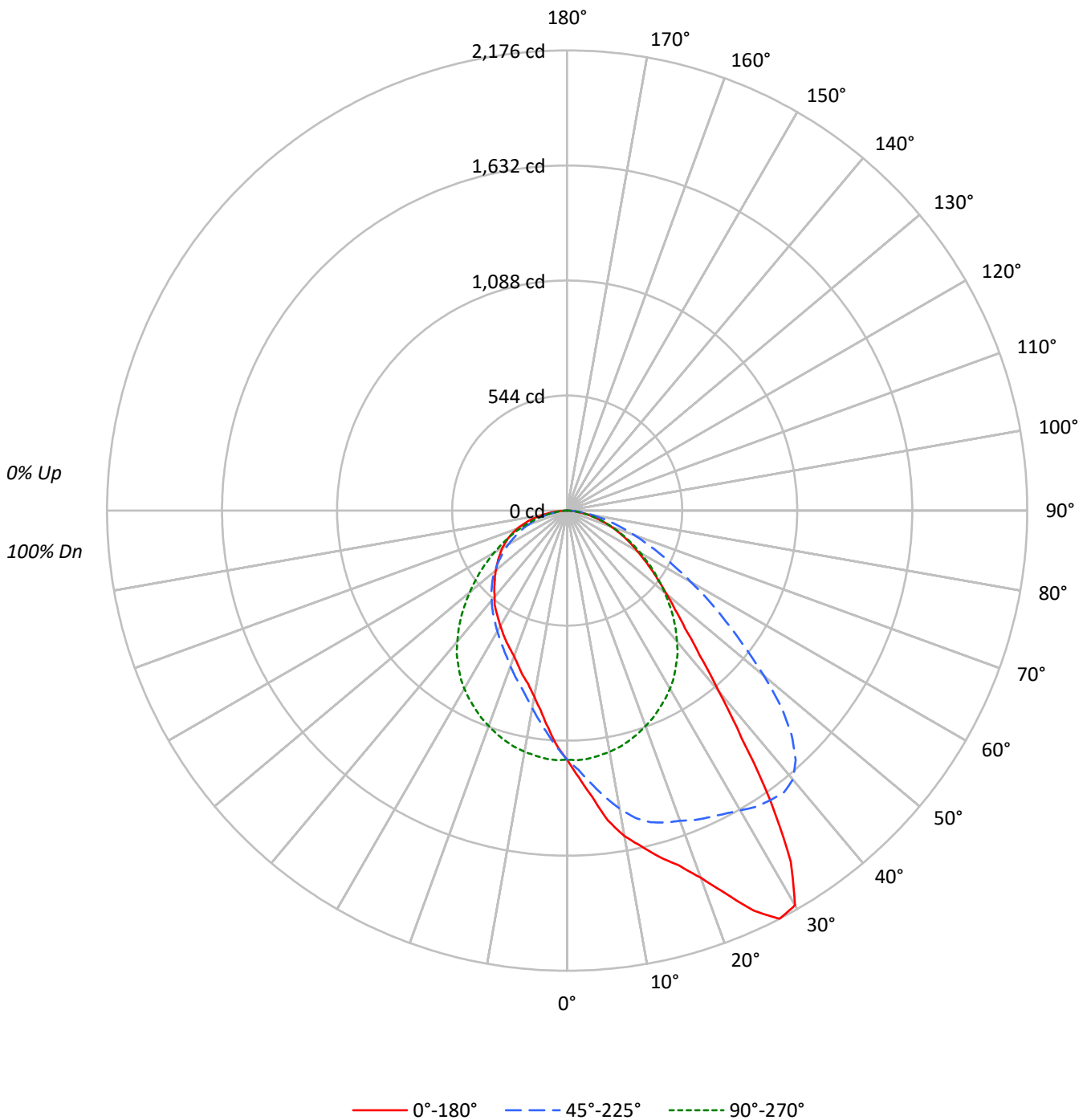
Lumens per Lamp: N/A
Luminaire Lumens: 3324.2 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.23 / 1.53
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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: P242812

CATALOG NUMBER: S125DRP-S850D835-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P242812

CATALOG NUMBER: S125DRP-S850D835-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 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 61 | | | | | 61 | | | |
| 4 | 84 | 73 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 57 | 67 | 61 | 56 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 5 | 78 | 65 | 56 | 50 | 76 | 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 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 36 | | | | | 36 | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 48 | 40 | 35 | 47 | 40 | 34 | 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 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0° | 8372 | 8372 | 8372 | 8372 | 8372 |
| 5° | 9695 | 9235 | 8400 | 7555 | 7356 |
| 10° | 11279 | 10327 | 8357 | 6845 | 6445 |
| 15° | 12486 | 11224 | 8295 | 6291 | 5945 |
| 20° | 13977 | 11806 | 8198 | 5926 | 5544 |
| 25° | 16373 | 12543 | 8089 | 5619 | 5348 |
| 30° | 17685 | 13434 | 7981 | 5412 | 5179 |
| 35° | 14541 | 14511 | 7778 | 5271 | 5067 |
| 40° | 10335 | 15410 | 7497 | 5154 | 4945 |
| 45° | 7941 | 15081 | 7116 | 5051 | 4875 |
| 50° | 6778 | 13417 | 6645 | 4926 | 4865 |
| 55° | 6035 | 11394 | 6183 | 4746 | 4907 |
| 60° | 5444 | 9623 | 5679 | 4577 | 5032 |
| 65° | 5028 | 8198 | 5171 | 4347 | 5163 |
| 70° | 4572 | 6972 | 4644 | 4052 | 5237 |
| 75° | 4037 | 5959 | 4092 | 3735 | 5190 |
| 80° | 3397 | 4891 | 3336 | 3172 | 4748 |
| 85° | 2691 | 3547 | 2406 | 2610 | 3833 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15081 cd/sqm



TEST NUMBER: P242812

CATALOG NUMBER: S125DRP-S850D835-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 113.4 | 3.4 |
| 10°-20° | 337.7 | 10.2 |
| 20°-30° | 548.5 | 16.5 |
| 30°-40° | 670.4 | 20.2 |
| 40°-50° | 608.2 | 18.3 |
| 50°-60° | 484.4 | 14.6 |
| 60°-70° | 337.4 | 10.1 |
| 70°-80° | 179.7 | 5.4 |
| 80°-90° | 44.6 | 1.3 |
| 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° | 999.6 | 30.1 |
| 0°-40° | 1670.0 | 50.2 |
| 0°-60° | 2762.5 | 83.1 |
| 0°-90° | 3324.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3324.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1178 | 1178 | 1178 | 1178 | 1178 | |
| 5° | 1359 | 1294 | 1177 | 1059 | 1031 | 137 |
| 15° | 1697 | 1525 | 1127 | 855 | 808 | 485 |
| 25° | 2088 | 1599 | 1032 | 716 | 682 | 957 |
| 35° | 1676 | 1672 | 896 | 608 | 584 | 1028 |
| 45° | 790 | 1500 | 708 | 502 | 485 | 629 |
| 55° | 487 | 920 | 499 | 383 | 396 | 438 |
| 65° | 299 | 488 | 308 | 258 | 307 | 297 |
| 75° | 147 | 217 | 149 | 136 | 189 | 158 |
| 85° | 33 | 44 | 30 | 32 | 47 | 38 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242812

CATALOG NUMBER: S125DRP-S850D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 |
| 2.5° | 1262.9 | 1260.9 | 1258.9 | 1254.9 | 1257.9 | 1249.4 | 1245.4 | 1238.4 | 1229.9 | 1226.9 | 1223.4 |
| 5° | 1358.9 | 1361.4 | 1363.9 | 1353.4 | 1354.4 | 1347.4 | 1331.4 | 1318.4 | 1307.9 | 1294.4 | 1284.9 |
| 7.5° | 1477.9 | 1470.4 | 1470.9 | 1464.4 | 1452.9 | 1443.4 | 1427.9 | 1406.4 | 1386.9 | 1364.9 | 1345.9 |
| 10° | 1562.9 | 1563.4 | 1558.9 | 1550.9 | 1538.4 | 1529.4 | 1507.4 | 1486.4 | 1460.9 | 1430.9 | 1409.4 |
| 12.5° | 1626.9 | 1629.4 | 1623.4 | 1611.9 | 1607.4 | 1584.4 | 1568.4 | 1542.4 | 1510.9 | 1488.4 | 1452.9 |
| 15° | 1696.9 | 1691.4 | 1687.4 | 1673.9 | 1663.4 | 1642.4 | 1614.9 | 1588.9 | 1555.9 | 1525.4 | 1494.9 |
| 17.5° | 1758.9 | 1763.4 | 1756.9 | 1746.9 | 1715.9 | 1691.4 | 1657.4 | 1624.4 | 1584.9 | 1546.9 | 1511.4 |
| 20° | 1847.9 | 1851.9 | 1840.4 | 1818.9 | 1779.9 | 1755.4 | 1706.9 | 1660.9 | 1613.4 | 1560.9 | 1520.9 |
| 22.5° | 1958.9 | 1953.9 | 1937.4 | 1901.9 | 1869.4 | 1818.9 | 1765.4 | 1706.9 | 1644.4 | 1583.4 | 1526.9 |
| 25° | 2087.9 | 2066.9 | 2057.4 | 2016.9 | 1972.4 | 1905.9 | 1833.9 | 1751.9 | 1677.9 | 1599.4 | 1531.4 |
| 27.5° | 2175.9 | 2167.4 | 2153.9 | 2120.9 | 2069.9 | 1994.4 | 1909.4 | 1811.4 | 1711.9 | 1615.9 | 1530.4 |
| 30° | 2154.9 | 2155.9 | 2156.9 | 2147.9 | 2117.9 | 2064.4 | 1979.9 | 1872.4 | 1748.4 | 1636.9 | 1533.9 |
| 32.5° | 1968.9 | 1991.4 | 2012.9 | 2040.9 | 2058.9 | 2059.4 | 2014.4 | 1919.9 | 1791.4 | 1660.9 | 1531.9 |
| 35° | 1675.9 | 1681.4 | 1737.9 | 1793.9 | 1869.9 | 1928.9 | 1968.4 | 1925.4 | 1817.9 | 1672.4 | 1530.4 |
| 37.5° | 1354.9 | 1382.4 | 1424.9 | 1487.9 | 1601.9 | 1694.9 | 1816.9 | 1858.9 | 1808.4 | 1681.9 | 1529.9 |
| 40° | 1113.9 | 1138.9 | 1164.4 | 1228.9 | 1321.4 | 1440.4 | 1583.9 | 1706.4 | 1734.9 | 1660.9 | 1514.9 |
| 42.5° | 928.0 | 946.5 | 975.5 | 1020.0 | 1093.4 | 1195.4 | 1330.9 | 1500.4 | 1616.4 | 1599.9 | 1483.4 |
| 45° | 790.0 | 802.5 | 824.5 | 863.0 | 919.0 | 1001.5 | 1122.4 | 1297.4 | 1449.9 | 1500.4 | 1429.9 |
| 47.5° | 692.0 | 692.5 | 710.5 | 738.0 | 780.5 | 856.5 | 947.0 | 1090.9 | 1255.4 | 1371.9 | 1355.4 |
| 50° | 613.0 | 610.5 | 624.0 | 647.0 | 679.0 | 725.5 | 811.0 | 920.5 | 1076.9 | 1213.4 | 1251.4 |
| 52.5° | 545.0 | 546.0 | 553.0 | 568.5 | 594.0 | 632.0 | 690.5 | 786.5 | 914.5 | 1055.5 | 1135.4 |
| 55° | 487.0 | 485.0 | 494.5 | 506.0 | 525.5 | 551.5 | 597.5 | 673.0 | 781.5 | 919.5 | 1012.5 |
| 57.5° | 431.0 | 436.5 | 440.5 | 448.5 | 465.5 | 483.5 | 524.5 | 582.5 | 672.0 | 794.5 | 893.0 |
| 60° | 383.0 | 388.5 | 391.5 | 399.5 | 412.5 | 427.5 | 457.5 | 502.5 | 575.0 | 677.0 | 774.5 |
| 62.5° | 340.0 | 344.0 | 344.5 | 351.5 | 361.5 | 376.0 | 398.0 | 434.0 | 487.5 | 573.5 | 668.5 |
| 65° | 299.0 | 299.0 | 301.0 | 308.5 | 313.5 | 326.5 | 344.5 | 372.0 | 418.0 | 487.5 | 569.0 |
| 67.5° | 259.0 | 261.5 | 261.0 | 264.5 | 269.0 | 280.0 | 293.5 | 316.5 | 353.0 | 405.5 | 473.0 |
| 70° | 220.0 | 222.0 | 221.5 | 224.0 | 229.0 | 235.5 | 246.0 | 267.5 | 292.0 | 335.5 | 391.5 |
| 72.5° | 185.0 | 185.5 | 184.0 | 187.5 | 190.0 | 195.5 | 207.5 | 216.5 | 239.0 | 274.0 | 317.5 |
| 75° | 147.0 | 148.0 | 149.0 | 151.0 | 154.0 | 157.0 | 163.0 | 174.5 | 189.5 | 217.0 | 246.5 |
| 77.5° | 117.0 | 114.5 | 117.5 | 117.0 | 118.5 | 121.0 | 126.5 | 133.0 | 146.0 | 164.5 | 189.0 |
| 80° | 83.0 | 83.5 | 83.5 | 84.0 | 86.5 | 88.0 | 92.5 | 97.0 | 106.5 | 119.5 | 135.5 |
| 82.5° | 55.0 | 56.5 | 55.5 | 56.5 | 58.5 | 59.5 | 61.5 | 65.0 | 69.5 | 79.0 | 89.5 |
| 85° | 33.0 | 30.5 | 31.5 | 32.5 | 32.5 | 33.0 | 35.0 | 36.5 | 39.5 | 43.5 | 48.0 |
| 87.5° | 12.0 | 13.0 | 13.5 | 13.5 | 14.0 | 14.0 | 16.0 | 16.0 | 17.5 | 19.0 | 21.0 |
| 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: P242812

CATALOG NUMBER: S125DRP-S850D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 |
| 2.5° | 1220.4 | 1216.9 | 1212.9 | 1205.9 | 1197.4 | 1192.9 | 1185.9 | 1181.4 | 1172.4 | 1164.9 | 1156.9 |
| 5° | 1273.4 | 1260.4 | 1248.4 | 1232.9 | 1215.9 | 1204.9 | 1191.9 | 1177.4 | 1162.4 | 1146.9 | 1129.9 |
| 7.5° | 1326.4 | 1304.9 | 1281.4 | 1256.9 | 1232.9 | 1210.4 | 1189.4 | 1167.9 | 1148.4 | 1123.9 | 1103.4 |
| 10° | 1379.9 | 1350.9 | 1319.9 | 1283.4 | 1247.9 | 1216.9 | 1185.4 | 1157.9 | 1129.9 | 1099.9 | 1073.4 |
| 12.5° | 1433.4 | 1392.4 | 1345.4 | 1304.4 | 1259.9 | 1220.9 | 1182.4 | 1145.4 | 1108.4 | 1074.4 | 1042.5 |
| 15° | 1452.9 | 1418.9 | 1378.4 | 1321.4 | 1273.4 | 1221.9 | 1172.9 | 1127.4 | 1084.9 | 1048.0 | 1009.0 |
| 17.5° | 1471.9 | 1428.4 | 1385.4 | 1330.4 | 1267.9 | 1212.4 | 1156.9 | 1107.4 | 1060.5 | 1014.0 | 978.5 |
| 20° | 1476.4 | 1431.4 | 1385.9 | 1332.4 | 1267.9 | 1201.9 | 1146.4 | 1083.9 | 1032.5 | 984.0 | 938.0 |
| 22.5° | 1474.9 | 1422.4 | 1371.9 | 1316.4 | 1253.9 | 1194.4 | 1124.4 | 1060.5 | 1003.5 | 956.0 | 907.5 |
| 25° | 1463.9 | 1409.4 | 1347.4 | 1291.9 | 1229.9 | 1165.4 | 1097.4 | 1031.5 | 974.5 | 920.0 | 872.5 |
| 27.5° | 1457.4 | 1388.4 | 1320.4 | 1256.4 | 1196.9 | 1137.4 | 1071.4 | 1003.5 | 941.0 | 885.5 | 841.5 |
| 30° | 1442.9 | 1365.4 | 1286.4 | 1218.9 | 1157.4 | 1099.9 | 1038.5 | 972.5 | 906.5 | 852.5 | 804.5 |
| 32.5° | 1429.9 | 1336.4 | 1251.9 | 1176.9 | 1110.9 | 1055.5 | 1000.0 | 938.0 | 873.5 | 818.5 | 770.5 |
| 35° | 1412.4 | 1307.9 | 1212.4 | 1129.4 | 1060.0 | 1002.5 | 955.0 | 896.5 | 837.0 | 784.0 | 738.0 |
| 37.5° | 1391.9 | 1270.9 | 1169.9 | 1083.4 | 1008.0 | 948.0 | 903.0 | 857.5 | 798.0 | 746.0 | 705.0 |
| 40° | 1366.9 | 1230.9 | 1122.4 | 1033.5 | 954.5 | 891.5 | 850.5 | 808.0 | 760.5 | 713.0 | 669.0 |
| 42.5° | 1335.4 | 1194.9 | 1074.4 | 977.0 | 899.0 | 838.0 | 794.5 | 760.0 | 719.5 | 676.0 | 636.0 |
| 45° | 1295.4 | 1149.9 | 1022.0 | 919.0 | 840.0 | 779.5 | 735.0 | 708.0 | 676.5 | 634.5 | 600.0 |
| 47.5° | 1242.4 | 1098.9 | 967.0 | 860.5 | 779.0 | 723.0 | 680.5 | 654.0 | 631.0 | 598.0 | 565.5 |
| 50° | 1166.9 | 1040.5 | 906.5 | 801.0 | 719.5 | 663.0 | 624.5 | 601.0 | 582.0 | 558.0 | 531.5 |
| 52.5° | 1082.4 | 967.0 | 847.0 | 743.0 | 662.5 | 607.0 | 569.5 | 549.5 | 534.5 | 519.0 | 493.0 |
| 55° | 992.0 | 892.0 | 778.0 | 679.0 | 604.5 | 550.0 | 517.0 | 499.0 | 486.0 | 473.0 | 457.0 |
| 57.5° | 894.5 | 813.5 | 709.0 | 616.5 | 547.5 | 496.5 | 465.5 | 447.0 | 436.5 | 429.5 | 419.5 |
| 60° | 790.5 | 723.5 | 636.5 | 554.0 | 487.0 | 443.0 | 413.0 | 399.5 | 391.0 | 385.5 | 378.5 |
| 62.5° | 694.0 | 642.0 | 563.0 | 489.5 | 433.0 | 392.0 | 366.0 | 353.0 | 345.0 | 343.0 | 337.5 |
| 65° | 599.5 | 557.0 | 490.5 | 428.0 | 378.0 | 342.5 | 320.0 | 307.5 | 302.5 | 299.5 | 300.0 |
| 67.5° | 504.5 | 477.0 | 421.5 | 366.5 | 325.5 | 294.0 | 275.5 | 266.0 | 263.5 | 259.0 | 259.0 |
| 70° | 419.0 | 399.5 | 354.5 | 308.0 | 272.5 | 249.5 | 233.5 | 223.5 | 221.0 | 219.0 | 218.5 |
| 72.5° | 343.5 | 327.0 | 289.5 | 254.5 | 223.5 | 204.0 | 191.5 | 186.5 | 182.0 | 181.0 | 181.0 |
| 75° | 269.5 | 260.0 | 229.0 | 199.5 | 177.5 | 163.5 | 154.5 | 149.0 | 146.0 | 145.5 | 146.0 |
| 77.5° | 203.5 | 194.5 | 173.0 | 151.0 | 136.5 | 125.5 | 117.0 | 115.5 | 111.5 | 112.0 | 111.0 |
| 80° | 144.0 | 138.5 | 126.0 | 109.5 | 98.0 | 89.0 | 85.0 | 81.5 | 80.5 | 79.0 | 80.5 |
| 82.5° | 94.5 | 88.5 | 81.0 | 72.0 | 63.0 | 58.5 | 54.5 | 54.0 | 53.5 | 53.0 | 53.0 |
| 85° | 51.5 | 52.0 | 47.0 | 39.0 | 35.0 | 32.0 | 29.5 | 29.5 | 29.0 | 28.5 | 29.0 |
| 87.5° | 22.0 | 21.0 | 19.0 | 17.5 | 15.0 | 13.5 | 13.0 | 13.5 | 12.0 | 11.5 | 12.0 |
| 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: P242812

CATALOG NUMBER: S125DRP-S850D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 |
| 2.5° | 1152.4 | 1146.9 | 1142.4 | 1132.4 | 1126.9 | 1119.4 | 1113.4 | 1119.9 | 1112.9 | 1115.9 | 1111.4 |
| 5° | 1121.4 | 1107.4 | 1097.4 | 1082.9 | 1070.4 | 1059.0 | 1050.5 | 1049.0 | 1045.0 | 1043.0 | 1037.0 |
| 7.5° | 1084.4 | 1068.4 | 1052.0 | 1034.0 | 1019.0 | 1003.0 | 993.5 | 984.5 | 979.0 | 972.0 | 966.5 |
| 10° | 1052.5 | 1029.0 | 1009.0 | 986.0 | 966.0 | 948.5 | 934.5 | 927.5 | 921.0 | 911.5 | 908.0 |
| 12.5° | 1013.0 | 988.5 | 963.0 | 938.0 | 919.0 | 899.0 | 887.5 | 876.0 | 872.0 | 861.0 | 860.5 |
| 15° | 983.0 | 946.5 | 922.5 | 897.5 | 871.0 | 855.0 | 845.0 | 833.5 | 828.5 | 821.0 | 815.5 |
| 17.5° | 946.0 | 913.0 | 883.0 | 857.5 | 833.5 | 820.5 | 807.5 | 799.5 | 791.0 | 785.5 | 776.5 |
| 20° | 905.0 | 874.0 | 844.0 | 816.5 | 799.0 | 783.5 | 773.5 | 766.0 | 757.0 | 754.5 | 745.5 |
| 22.5° | 870.5 | 835.5 | 807.0 | 785.0 | 765.5 | 747.5 | 736.5 | 732.0 | 726.5 | 717.5 | 717.5 |
| 25° | 832.5 | 797.0 | 772.5 | 749.5 | 732.5 | 716.5 | 709.0 | 702.5 | 696.5 | 691.0 | 689.0 |
| 27.5° | 800.5 | 769.0 | 739.0 | 718.0 | 703.5 | 688.5 | 682.0 | 673.5 | 669.0 | 664.5 | 658.5 |
| 30° | 766.5 | 734.0 | 708.5 | 688.5 | 672.5 | 659.5 | 652.5 | 647.0 | 643.0 | 639.0 | 636.0 |
| 32.5° | 731.5 | 702.0 | 677.5 | 658.0 | 642.0 | 633.0 | 627.0 | 623.5 | 619.0 | 614.0 | 610.0 |
| 35° | 701.5 | 668.5 | 644.5 | 627.5 | 615.0 | 607.5 | 600.5 | 597.0 | 592.0 | 592.0 | 588.0 |
| 37.5° | 666.0 | 637.0 | 615.5 | 600.0 | 589.0 | 582.0 | 574.0 | 572.0 | 568.5 | 566.5 | 565.0 |
| 40° | 635.0 | 608.5 | 588.5 | 573.0 | 561.0 | 555.5 | 549.5 | 545.5 | 543.5 | 541.0 | 540.0 |
| 42.5° | 603.0 | 578.0 | 559.0 | 545.0 | 535.0 | 530.5 | 525.0 | 522.5 | 518.0 | 514.5 | 514.0 |
| 45° | 570.5 | 546.0 | 528.5 | 517.0 | 508.0 | 502.5 | 499.0 | 493.0 | 491.0 | 487.0 | 486.5 |
| 47.5° | 540.5 | 516.5 | 499.0 | 489.5 | 481.5 | 477.5 | 472.0 | 465.5 | 463.0 | 460.5 | 460.0 |
| 50° | 506.0 | 484.5 | 468.5 | 459.5 | 452.0 | 445.5 | 440.0 | 436.0 | 434.5 | 434.5 | 435.5 |
| 52.5° | 471.0 | 453.5 | 440.5 | 429.0 | 422.0 | 415.0 | 410.0 | 408.0 | 405.5 | 408.5 | 410.5 |
| 55° | 437.0 | 418.5 | 408.5 | 398.0 | 391.0 | 383.0 | 380.5 | 379.5 | 378.0 | 382.0 | 384.0 |
| 57.5° | 400.5 | 388.0 | 376.0 | 365.0 | 359.0 | 354.0 | 350.0 | 349.5 | 352.5 | 353.5 | 359.5 |
| 60° | 366.0 | 351.0 | 340.5 | 332.5 | 325.0 | 322.0 | 321.0 | 320.0 | 322.0 | 327.5 | 336.0 |
| 62.5° | 328.0 | 316.5 | 305.0 | 299.5 | 294.5 | 289.0 | 289.0 | 290.0 | 294.5 | 301.0 | 309.5 |
| 65° | 291.0 | 280.5 | 273.0 | 266.0 | 261.5 | 258.5 | 259.5 | 261.5 | 266.0 | 274.5 | 284.0 |
| 67.5° | 253.0 | 246.0 | 239.0 | 232.5 | 228.0 | 228.5 | 229.0 | 231.5 | 237.0 | 247.0 | 256.0 |
| 70° | 216.5 | 208.5 | 203.0 | 200.5 | 197.0 | 195.0 | 198.0 | 203.0 | 207.5 | 216.5 | 224.0 |
| 72.5° | 180.0 | 173.5 | 169.5 | 168.0 | 167.0 | 165.5 | 166.0 | 171.5 | 178.0 | 187.0 | 196.0 |
| 75° | 144.0 | 141.5 | 138.5 | 136.5 | 135.0 | 136.0 | 137.0 | 142.0 | 147.0 | 156.5 | 166.5 |
| 77.5° | 111.5 | 108.5 | 106.5 | 106.0 | 105.0 | 105.5 | 108.0 | 112.0 | 117.0 | 124.0 | 132.0 |
| 80° | 79.5 | 78.5 | 77.5 | 77.0 | 77.0 | 77.5 | 81.5 | 84.0 | 88.5 | 95.0 | 101.0 |
| 82.5° | 52.5 | 52.0 | 52.0 | 52.0 | 52.5 | 52.5 | 54.5 | 58.0 | 61.5 | 66.0 | 71.0 |
| 85° | 30.5 | 29.5 | 31.0 | 31.5 | 30.5 | 32.0 | 33.0 | 35.0 | 36.5 | 39.0 | 41.5 |
| 87.5° | 12.5 | 13.5 | 13.0 | 13.5 | 13.5 | 14.5 | 14.0 | 16.0 | 17.0 | 18.0 | 17.5 |
| 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: P242812

CATALOG NUMBER: S125DRP-S850D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1177.9 | 1177.9 | 1177.9 | 1177.9 |
| 2.5° | 1108.4 | 1111.9 | 1108.9 | 1112.9 |
| 5° | 1034.5 | 1030.0 | 1033.0 | 1031.0 |
| 7.5° | 966.0 | 962.0 | 956.0 | 954.0 |
| 10° | 902.5 | 897.0 | 896.5 | 893.0 |
| 12.5° | 856.0 | 851.0 | 844.0 | 843.0 |
| 15° | 812.5 | 808.5 | 805.0 | 808.0 |
| 17.5° | 775.5 | 772.0 | 771.0 | 768.0 |
| 20° | 741.0 | 738.5 | 739.5 | 733.0 |
| 22.5° | 713.5 | 708.0 | 707.0 | 707.0 |
| 25° | 684.5 | 682.0 | 679.5 | 682.0 |
| 27.5° | 659.0 | 656.5 | 655.5 | 656.0 |
| 30° | 636.0 | 631.0 | 631.5 | 631.0 |
| 32.5° | 611.0 | 608.0 | 607.0 | 606.0 |
| 35° | 586.5 | 586.5 | 584.0 | 584.0 |
| 37.5° | 564.0 | 563.5 | 562.0 | 563.0 |
| 40° | 538.0 | 537.5 | 536.0 | 533.0 |
| 42.5° | 513.0 | 511.0 | 510.5 | 510.0 |
| 45° | 486.5 | 486.5 | 485.5 | 485.0 |
| 47.5° | 460.5 | 461.5 | 463.5 | 463.0 |
| 50° | 437.5 | 438.0 | 439.5 | 440.0 |
| 52.5° | 412.0 | 415.5 | 417.5 | 417.0 |
| 55° | 388.5 | 392.0 | 395.5 | 396.0 |
| 57.5° | 365.0 | 369.5 | 373.0 | 374.0 |
| 60° | 341.0 | 347.5 | 352.0 | 354.0 |
| 62.5° | 318.0 | 325.5 | 330.0 | 330.0 |
| 65° | 292.5 | 300.0 | 304.0 | 307.0 |
| 67.5° | 266.0 | 273.5 | 277.5 | 280.0 |
| 70° | 236.5 | 244.0 | 250.0 | 252.0 |
| 72.5° | 207.5 | 214.0 | 218.5 | 221.0 |
| 75° | 173.0 | 182.0 | 186.5 | 189.0 |
| 77.5° | 140.0 | 149.0 | 151.5 | 153.0 |
| 80° | 107.0 | 112.0 | 115.5 | 116.0 |
| 82.5° | 76.0 | 80.0 | 80.5 | 82.0 |
| 85° | 45.0 | 47.0 | 47.5 | 47.0 |
| 87.5° | 18.5 | 18.0 | 18.0 | 19.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P242812
 CATALOG NUMBER: S125DRP-S850D835-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 | 18.04 | 19.61 | 18.40 | 19.92 | 20.23 | 18.01 | 19.58 | 18.38 | 19.89 | 20.21 |
| | 3H | 19.41 | 20.82 | 19.79 | 21.15 | 21.51 | 19.44 | 20.85 | 19.82 | 21.18 | 21.54 |
| | 4H | 19.90 | 21.23 | 20.30 | 21.58 | 21.95 | 19.93 | 21.25 | 20.33 | 21.60 | 21.98 |
| | 6H | 20.24 | 21.47 | 20.65 | 21.83 | 22.22 | 20.24 | 21.47 | 20.65 | 21.83 | 22.23 |
| | 8H | 20.33 | 21.50 | 20.76 | 21.89 | 22.29 | 20.32 | 21.49 | 20.75 | 21.88 | 22.28 |
| | 12H | 20.38 | 21.50 | 20.81 | 21.88 | 22.31 | 20.36 | 21.48 | 20.79 | 21.86 | 22.29 |
| 4H | 2H | 19.55 | 20.87 | 19.94 | 21.22 | 21.60 | 19.09 | 20.42 | 19.49 | 20.76 | 21.14 |
| | 3H | 20.89 | 21.99 | 21.30 | 22.39 | 22.79 | 20.75 | 21.86 | 21.16 | 22.25 | 22.66 |
| | 4H | 21.40 | 22.39 | 21.83 | 22.81 | 23.25 | 21.31 | 22.30 | 21.74 | 22.72 | 23.15 |
| | 6H | 21.77 | 22.64 | 22.23 | 23.08 | 23.54 | 21.68 | 22.55 | 22.14 | 22.99 | 23.45 |
| | 8H | 21.87 | 22.68 | 22.34 | 23.13 | 23.59 | 21.78 | 22.59 | 22.24 | 23.03 | 23.50 |
| | 12H | 21.94 | 22.66 | 22.42 | 23.14 | 23.61 | 21.83 | 22.56 | 22.31 | 23.04 | 23.51 |
| 8H | 4H | 21.88 | 22.69 | 22.34 | 23.14 | 23.60 | 21.65 | 22.46 | 22.11 | 22.90 | 23.37 |
| | 6H | 22.33 | 23.00 | 22.83 | 23.49 | 23.97 | 22.15 | 22.82 | 22.65 | 23.31 | 23.79 |
| | 8H | 22.48 | 23.08 | 22.99 | 23.59 | 24.07 | 22.30 | 22.90 | 22.81 | 23.41 | 23.90 |
| | 12H | 22.58 | 23.11 | 23.09 | 23.60 | 24.17 | 22.40 | 22.93 | 22.90 | 23.42 | 23.98 |
| 12H | 4H | 21.93 | 22.65 | 22.41 | 23.13 | 23.60 | 21.67 | 22.39 | 22.15 | 22.87 | 23.34 |
| | 6H | 22.41 | 23.02 | 22.93 | 23.53 | 24.01 | 22.20 | 22.80 | 22.71 | 23.31 | 23.80 |
| | 8H | 22.61 | 23.14 | 23.12 | 23.63 | 24.19 | 22.40 | 22.94 | 22.91 | 23.43 | 23.99 |