

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: P243250

Luminaire Tested: S122RDRP-H865D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243250
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-H865D927-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

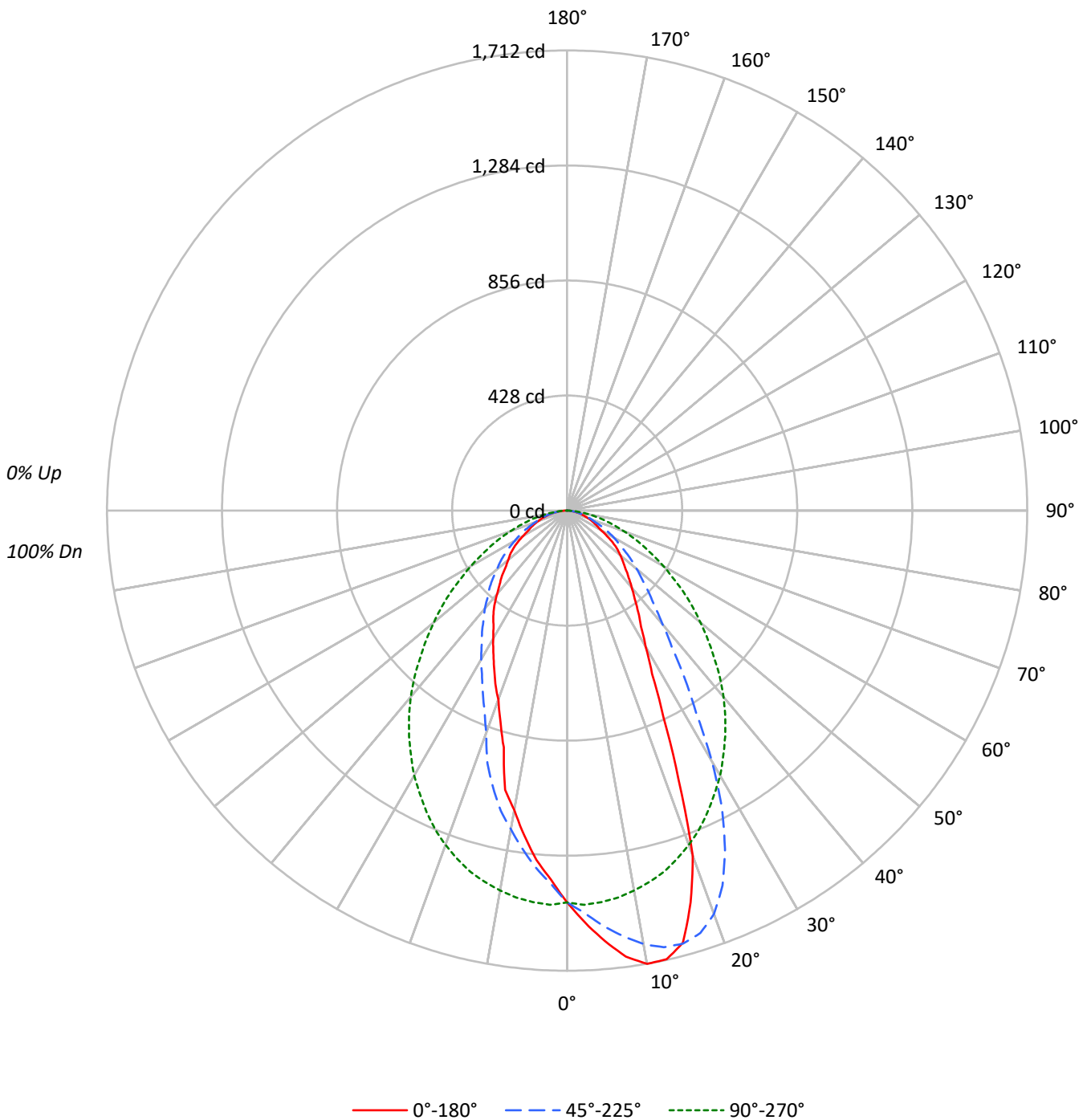
Lumens per Lamp: N/A
Luminaire Lumens: 2456.5 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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: P243250

CATALOG NUMBER: S122RDRP-H865D927-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243250

CATALOG NUMBER: S122RDRP-H865D927-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 | 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° | 27764 | 27764 | 27764 | 27764 | 27764 |
| 5° | 30732 | 29656 | 27952 | 25507 | 24950 |
| 10° | 33119 | 31678 | 27757 | 23293 | 21881 |
| 15° | 32825 | 32890 | 27436 | 21011 | 17982 |
| 20° | 27689 | 32367 | 26828 | 17848 | 15178 |
| 25° | 17803 | 29209 | 26002 | 15618 | 13512 |
| 30° | 12860 | 23688 | 25041 | 14068 | 12106 |
| 35° | 10713 | 17733 | 23834 | 12843 | 11136 |
| 40° | 9297 | 13745 | 22510 | 11848 | 10080 |
| 45° | 8299 | 11510 | 20825 | 11023 | 9226 |
| 50° | 7660 | 10022 | 19178 | 10120 | 8481 |
| 55° | 6874 | 8648 | 17518 | 9441 | 8076 |
| 60° | 5486 | 7611 | 15772 | 8575 | 7269 |
| 65° | 5030 | 6472 | 14166 | 7869 | 6707 |
| 70° | 4622 | 5341 | 12508 | 6984 | 6377 |
| 75° | 4210 | 4776 | 10951 | 6631 | 6035 |
| 80° | 3664 | 4190 | 9104 | 6066 | 5649 |
| 85° | 2929 | 3431 | 7300 | 5529 | 5201 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 45°
 Luminance: 27571 cd/sqm

TEST NUMBER: P243250

CATALOG NUMBER: S122RDRP-H865D927-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 138.0 | 5.6 |
| 10°-20° | 377.5 | 15.4 |
| 20°-30° | 475.9 | 19.4 |
| 30°-40° | 456.8 | 18.6 |
| 40°-50° | 393.5 | 16.0 |
| 50°-60° | 300.8 | 12.2 |
| 60°-70° | 191.4 | 7.8 |
| 70°-80° | 97.0 | 3.9 |
| 80°-90° | 25.6 | 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° | 991.3 | 40.4 |
| 0°-40° | 1448.1 | 59.0 |
| 0°-60° | 2142.4 | 87.2 |
| 0°-90° | 2456.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2456.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1458 | 1458 | 1458 | 1458 | 1458 | |
| 5° | 1607 | 1551 | 1462 | 1334 | 1305 | 157 |
| 15° | 1665 | 1668 | 1391 | 1066 | 912 | 451 |
| 25° | 847 | 1390 | 1237 | 743 | 643 | 405 |
| 35° | 461 | 763 | 1025 | 552 | 479 | 290 |
| 45° | 308 | 427 | 773 | 409 | 342 | 240 |
| 55° | 207 | 260 | 528 | 284 | 243 | 183 |
| 65° | 112 | 144 | 314 | 175 | 149 | 111 |
| 75° | 57 | 65 | 149 | 90 | 82 | 61 |
| 85° | 13 | 16 | 33 | 25 | 24 | 15 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243250

CATALOG NUMBER: S122RDRP-H865D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 |
| 2.5° | 1534.8 | 1536.7 | 1537.7 | 1535.3 | 1530.1 | 1530.5 | 1525.8 | 1517.7 | 1507.6 | 1498.6 | 1503.8 |
| 5° | 1607.3 | 1609.7 | 1609.2 | 1604.9 | 1599.7 | 1594.9 | 1586.8 | 1575.4 | 1563.4 | 1551.0 | 1548.7 |
| 7.5° | 1674.1 | 1679.3 | 1677.9 | 1669.8 | 1666.0 | 1659.3 | 1645.5 | 1632.6 | 1614.5 | 1596.8 | 1589.7 |
| 10° | 1712.3 | 1716.5 | 1714.2 | 1712.3 | 1708.0 | 1701.3 | 1688.9 | 1676.5 | 1656.4 | 1637.8 | 1627.4 |
| 12.5° | 1709.4 | 1713.2 | 1715.1 | 1717.0 | 1715.6 | 1713.2 | 1708.0 | 1697.5 | 1681.2 | 1664.1 | 1650.7 |
| 15° | 1664.6 | 1658.4 | 1654.1 | 1666.0 | 1670.3 | 1686.5 | 1690.3 | 1691.7 | 1680.8 | 1667.9 | 1664.6 |
| 17.5° | 1528.1 | 1530.1 | 1563.0 | 1557.7 | 1564.9 | 1604.5 | 1620.2 | 1641.7 | 1650.7 | 1647.9 | 1653.6 |
| 20° | 1366.0 | 1343.6 | 1359.8 | 1383.6 | 1406.0 | 1463.8 | 1501.9 | 1535.8 | 1574.9 | 1596.8 | 1617.8 |
| 22.5° | 1083.6 | 1084.1 | 1123.2 | 1162.3 | 1212.9 | 1275.4 | 1333.6 | 1398.4 | 1468.1 | 1510.5 | 1559.6 |
| 25° | 847.1 | 870.0 | 887.1 | 904.3 | 977.7 | 1037.8 | 1134.7 | 1213.4 | 1309.2 | 1389.8 | 1472.3 |
| 27.5° | 684.9 | 708.7 | 711.6 | 750.2 | 793.6 | 842.3 | 905.7 | 1029.7 | 1128.0 | 1246.3 | 1348.3 |
| 30° | 584.7 | 589.5 | 599.5 | 609.5 | 641.5 | 686.8 | 755.0 | 832.8 | 942.0 | 1077.0 | 1213.8 |
| 32.5° | 512.2 | 511.3 | 521.3 | 537.0 | 554.7 | 585.2 | 623.9 | 688.2 | 787.0 | 894.3 | 1054.1 |
| 35° | 460.7 | 459.3 | 466.5 | 472.2 | 482.7 | 507.5 | 542.3 | 584.7 | 655.8 | 762.6 | 886.7 |
| 37.5° | 412.1 | 414.9 | 419.2 | 425.4 | 439.3 | 455.0 | 478.4 | 513.7 | 570.0 | 640.5 | 759.3 |
| 40° | 373.9 | 377.3 | 382.0 | 386.3 | 396.8 | 409.7 | 425.4 | 453.6 | 491.3 | 552.8 | 643.9 |
| 42.5° | 339.6 | 341.0 | 344.8 | 351.0 | 358.7 | 370.1 | 385.4 | 406.8 | 438.3 | 481.2 | 560.9 |
| 45° | 308.1 | 308.1 | 312.4 | 318.1 | 322.9 | 333.9 | 345.8 | 366.3 | 390.6 | 427.3 | 484.1 |
| 47.5° | 281.4 | 281.9 | 284.3 | 285.2 | 290.5 | 300.5 | 313.4 | 329.6 | 349.6 | 377.7 | 430.7 |
| 50° | 258.5 | 260.4 | 261.4 | 262.8 | 264.7 | 270.0 | 279.0 | 291.4 | 313.4 | 338.2 | 373.5 |
| 52.5° | 234.7 | 237.0 | 239.0 | 241.8 | 244.7 | 245.2 | 251.8 | 259.9 | 275.2 | 301.0 | 329.6 |
| 55° | 207.0 | 208.9 | 212.7 | 215.1 | 218.9 | 222.3 | 227.5 | 233.2 | 243.2 | 260.4 | 290.0 |
| 57.5° | 175.5 | 176.0 | 179.8 | 182.2 | 189.8 | 197.5 | 202.2 | 208.4 | 215.6 | 227.5 | 249.9 |
| 60° | 144.0 | 145.5 | 145.9 | 147.9 | 154.5 | 162.6 | 172.2 | 181.7 | 189.3 | 199.8 | 215.6 |
| 62.5° | 126.9 | 127.3 | 128.8 | 130.7 | 131.2 | 135.0 | 137.8 | 149.3 | 162.6 | 173.1 | 183.6 |
| 65° | 111.6 | 112.1 | 112.1 | 113.5 | 115.4 | 117.3 | 118.8 | 123.1 | 128.8 | 143.6 | 156.4 |
| 67.5° | 97.3 | 96.8 | 97.8 | 99.2 | 99.7 | 101.1 | 103.5 | 105.9 | 109.7 | 114.0 | 127.3 |
| 70° | 83.0 | 83.0 | 82.5 | 83.9 | 85.4 | 85.9 | 87.3 | 89.7 | 92.1 | 95.9 | 100.2 |
| 72.5° | 68.7 | 69.6 | 69.6 | 70.6 | 71.1 | 73.0 | 73.9 | 74.9 | 78.2 | 80.1 | 83.5 |
| 75° | 57.2 | 56.8 | 58.2 | 57.7 | 58.7 | 59.1 | 60.6 | 62.0 | 63.0 | 64.9 | 67.7 |
| 77.5° | 45.8 | 44.8 | 45.8 | 45.3 | 46.3 | 47.2 | 47.2 | 48.6 | 49.6 | 51.5 | 52.9 |
| 80° | 33.4 | 33.4 | 33.9 | 34.8 | 34.8 | 35.3 | 36.2 | 35.8 | 37.7 | 38.2 | 39.6 |
| 82.5° | 22.9 | 23.4 | 23.4 | 23.8 | 23.8 | 23.8 | 24.8 | 24.8 | 25.3 | 26.2 | 26.7 |
| 85° | 13.4 | 12.9 | 13.4 | 13.4 | 13.4 | 13.8 | 14.3 | 13.8 | 14.8 | 15.7 | 15.7 |
| 87.5° | 3.8 | 3.8 | 4.3 | 4.8 | 4.8 | 5.2 | 5.2 | 5.2 | 5.7 | 5.7 | 6.2 |
| 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: P243250

CATALOG NUMBER: S122RDRP-H865D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 |
| 2.5° | 1503.8 | 1501.4 | 1495.2 | 1489.5 | 1479.0 | 1470.4 | 1467.6 | 1468.1 | 1455.2 | 1441.8 | 1438.0 |
| 5° | 1545.3 | 1536.7 | 1524.3 | 1511.5 | 1495.7 | 1480.0 | 1470.0 | 1461.9 | 1441.8 | 1421.8 | 1410.3 |
| 7.5° | 1579.7 | 1565.8 | 1547.7 | 1527.2 | 1506.7 | 1483.3 | 1467.1 | 1451.8 | 1424.2 | 1397.0 | 1382.2 |
| 10° | 1611.1 | 1591.6 | 1566.8 | 1540.1 | 1512.9 | 1482.4 | 1459.0 | 1435.1 | 1400.3 | 1369.8 | 1344.5 |
| 12.5° | 1641.2 | 1610.2 | 1584.9 | 1546.3 | 1516.2 | 1474.7 | 1442.8 | 1415.1 | 1374.1 | 1335.9 | 1307.8 |
| 15° | 1644.0 | 1622.1 | 1588.2 | 1548.2 | 1502.4 | 1463.8 | 1423.7 | 1391.3 | 1344.5 | 1302.1 | 1253.9 |
| 17.5° | 1643.6 | 1626.4 | 1591.1 | 1550.1 | 1495.2 | 1444.7 | 1401.3 | 1358.8 | 1305.4 | 1255.8 | 1214.3 |
| 20° | 1626.4 | 1614.5 | 1584.0 | 1535.3 | 1480.0 | 1421.8 | 1373.6 | 1323.5 | 1261.1 | 1210.0 | 1164.7 |
| 22.5° | 1585.9 | 1588.7 | 1564.9 | 1521.5 | 1461.9 | 1397.0 | 1341.2 | 1283.5 | 1219.6 | 1160.9 | 1103.7 |
| 25° | 1517.2 | 1547.7 | 1540.5 | 1500.0 | 1436.6 | 1365.5 | 1302.1 | 1237.2 | 1168.5 | 1106.0 | 1053.1 |
| 27.5° | 1431.8 | 1489.0 | 1501.4 | 1470.0 | 1409.4 | 1329.7 | 1257.7 | 1187.1 | 1117.0 | 1049.8 | 995.4 |
| 30° | 1330.7 | 1416.1 | 1447.5 | 1430.4 | 1374.6 | 1291.1 | 1207.6 | 1138.5 | 1061.7 | 990.1 | 932.9 |
| 32.5° | 1203.3 | 1323.1 | 1378.4 | 1383.6 | 1337.8 | 1248.2 | 1155.7 | 1081.2 | 1002.5 | 934.8 | 873.3 |
| 35° | 1061.2 | 1208.1 | 1298.3 | 1322.6 | 1289.7 | 1201.0 | 1103.7 | 1025.0 | 941.0 | 872.8 | 810.8 |
| 37.5° | 918.1 | 1090.8 | 1209.1 | 1256.3 | 1234.3 | 1148.5 | 1045.5 | 965.8 | 882.8 | 813.2 | 755.0 |
| 40° | 786.5 | 950.6 | 1104.1 | 1178.1 | 1171.4 | 1091.7 | 987.8 | 905.3 | 820.8 | 756.4 | 692.5 |
| 42.5° | 668.7 | 827.0 | 995.9 | 1095.1 | 1100.3 | 1030.7 | 924.3 | 841.3 | 760.3 | 696.3 | 629.6 |
| 45° | 575.7 | 714.9 | 882.4 | 1000.6 | 1023.5 | 966.3 | 858.5 | 773.1 | 699.2 | 639.1 | 572.3 |
| 47.5° | 501.3 | 609.5 | 765.0 | 903.8 | 944.4 | 894.3 | 791.3 | 710.2 | 640.5 | 589.0 | 526.1 |
| 50° | 436.9 | 538.5 | 670.6 | 798.9 | 858.5 | 820.8 | 724.5 | 647.2 | 584.3 | 534.7 | 479.3 |
| 52.5° | 379.7 | 458.3 | 572.8 | 695.9 | 776.0 | 741.7 | 659.6 | 588.6 | 529.4 | 483.2 | 436.9 |
| 55° | 332.4 | 398.3 | 499.4 | 609.1 | 683.0 | 663.9 | 590.9 | 527.5 | 475.5 | 431.6 | 394.0 |
| 57.5° | 283.8 | 339.1 | 420.7 | 518.4 | 590.9 | 588.1 | 528.0 | 466.9 | 425.9 | 384.4 | 357.2 |
| 60° | 241.3 | 286.2 | 352.5 | 435.5 | 508.4 | 508.9 | 462.2 | 414.0 | 378.7 | 342.9 | 317.2 |
| 62.5° | 203.7 | 239.4 | 297.1 | 363.9 | 422.1 | 436.9 | 402.1 | 360.1 | 331.5 | 303.8 | 281.9 |
| 65° | 171.2 | 197.9 | 241.3 | 301.9 | 347.7 | 367.7 | 344.8 | 314.3 | 290.5 | 265.7 | 246.1 |
| 67.5° | 141.2 | 160.7 | 192.7 | 240.4 | 286.2 | 301.0 | 291.4 | 268.0 | 250.9 | 230.4 | 215.6 |
| 70° | 111.1 | 127.8 | 150.2 | 186.0 | 223.7 | 244.2 | 241.3 | 224.6 | 210.3 | 195.5 | 181.7 |
| 72.5° | 88.2 | 97.8 | 114.9 | 140.7 | 170.7 | 193.6 | 194.6 | 186.0 | 174.1 | 161.7 | 152.6 |
| 75° | 71.1 | 75.4 | 83.5 | 103.5 | 127.3 | 146.4 | 153.1 | 148.8 | 139.3 | 131.6 | 125.4 |
| 77.5° | 54.8 | 58.7 | 63.9 | 73.5 | 92.1 | 106.8 | 114.9 | 115.4 | 109.7 | 103.0 | 98.3 |
| 80° | 41.0 | 42.4 | 46.3 | 51.0 | 60.6 | 73.5 | 83.0 | 83.0 | 79.7 | 76.3 | 73.5 |
| 82.5° | 28.1 | 29.6 | 31.5 | 33.9 | 38.6 | 46.3 | 54.8 | 56.3 | 54.4 | 53.4 | 49.6 |
| 85° | 15.7 | 17.2 | 18.1 | 19.6 | 21.5 | 25.3 | 31.5 | 33.4 | 33.9 | 31.0 | 29.1 |
| 87.5° | 6.2 | 6.2 | 6.7 | 7.2 | 7.6 | 9.1 | 11.4 | 14.3 | 14.3 | 12.9 | 12.4 |
| 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: P243250

CATALOG NUMBER: S122RDRP-H865D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 | 1457.6 |
| 2.5° | 1433.2 | 1426.6 | 1418.0 | 1410.3 | 1399.8 | 1389.4 | 1387.4 | 1391.3 | 1392.2 | 1387.4 | 1388.9 |
| 5° | 1399.4 | 1387.0 | 1376.5 | 1359.3 | 1348.3 | 1334.0 | 1324.5 | 1324.5 | 1324.5 | 1317.3 | 1310.7 |
| 7.5° | 1364.1 | 1347.4 | 1327.4 | 1311.1 | 1288.7 | 1270.1 | 1261.1 | 1256.8 | 1248.2 | 1241.0 | 1232.9 |
| 10° | 1323.1 | 1299.7 | 1274.9 | 1249.6 | 1230.1 | 1204.3 | 1189.0 | 1179.5 | 1164.7 | 1158.5 | 1146.6 |
| 12.5° | 1274.9 | 1251.5 | 1221.5 | 1180.5 | 1174.7 | 1143.2 | 1121.8 | 1104.1 | 1086.0 | 1071.2 | 1066.0 |
| 15° | 1236.3 | 1195.7 | 1155.7 | 1126.6 | 1084.1 | 1065.5 | 1034.0 | 1031.2 | 1016.4 | 973.0 | 939.1 |
| 17.5° | 1173.8 | 1137.5 | 1093.2 | 1060.7 | 1026.9 | 985.4 | 952.0 | 919.1 | 887.6 | 857.1 | 856.1 |
| 20° | 1118.4 | 1076.0 | 1034.0 | 998.7 | 939.6 | 880.5 | 859.9 | 829.9 | 811.3 | 787.0 | 779.8 |
| 22.5° | 1057.9 | 1013.5 | 961.1 | 909.5 | 840.4 | 803.2 | 780.8 | 756.9 | 738.3 | 727.3 | 716.4 |
| 25° | 996.8 | 952.5 | 882.8 | 819.4 | 772.2 | 743.1 | 724.0 | 698.3 | 684.9 | 675.4 | 661.1 |
| 27.5° | 937.2 | 880.9 | 807.5 | 756.9 | 718.8 | 685.9 | 668.7 | 647.7 | 632.9 | 620.5 | 611.5 |
| 30° | 878.1 | 800.8 | 738.3 | 699.2 | 660.1 | 639.6 | 617.2 | 601.4 | 590.5 | 579.0 | 564.2 |
| 32.5° | 813.2 | 732.1 | 691.6 | 643.4 | 620.5 | 590.9 | 574.7 | 558.5 | 544.2 | 536.1 | 530.8 |
| 35° | 737.8 | 672.5 | 636.3 | 601.0 | 571.9 | 552.3 | 529.4 | 519.4 | 511.8 | 496.0 | 489.4 |
| 37.5° | 673.9 | 626.7 | 588.6 | 557.1 | 530.4 | 509.4 | 498.9 | 481.7 | 470.7 | 465.5 | 458.3 |
| 40° | 621.0 | 579.0 | 546.1 | 514.2 | 491.7 | 476.5 | 457.9 | 448.8 | 434.5 | 429.3 | 423.5 |
| 42.5° | 575.2 | 536.6 | 502.2 | 477.9 | 458.3 | 437.4 | 427.8 | 412.6 | 406.4 | 393.5 | 388.7 |
| 45° | 528.9 | 494.6 | 464.5 | 440.7 | 422.1 | 409.2 | 392.1 | 382.5 | 371.5 | 364.9 | 352.0 |
| 47.5° | 482.7 | 452.1 | 427.3 | 407.3 | 391.1 | 375.4 | 361.1 | 352.9 | 339.1 | 332.0 | 325.3 |
| 50° | 446.9 | 417.3 | 394.0 | 373.9 | 357.2 | 341.5 | 332.4 | 319.1 | 306.7 | 298.6 | 296.2 |
| 52.5° | 404.5 | 378.7 | 357.2 | 342.0 | 325.3 | 313.8 | 301.4 | 286.6 | 280.4 | 272.3 | 270.4 |
| 55° | 366.8 | 345.8 | 327.7 | 311.4 | 297.1 | 284.3 | 270.0 | 259.5 | 254.7 | 250.9 | 248.0 |
| 57.5° | 331.5 | 311.4 | 294.8 | 280.0 | 267.6 | 254.2 | 242.3 | 236.1 | 231.8 | 227.5 | 224.6 |
| 60° | 296.7 | 278.5 | 263.3 | 250.9 | 238.0 | 225.1 | 216.5 | 211.3 | 208.0 | 201.7 | 199.8 |
| 62.5° | 265.7 | 249.0 | 233.2 | 221.8 | 209.9 | 199.8 | 192.7 | 185.5 | 180.3 | 175.5 | 165.5 |
| 65° | 231.8 | 217.0 | 205.1 | 193.6 | 182.2 | 174.6 | 166.5 | 158.3 | 151.7 | 151.7 | 151.7 |
| 67.5° | 201.7 | 188.9 | 176.5 | 166.5 | 156.4 | 147.4 | 139.3 | 138.8 | 136.4 | 135.5 | 134.0 |
| 70° | 171.2 | 162.2 | 150.7 | 139.7 | 129.7 | 125.4 | 124.0 | 121.6 | 118.8 | 118.3 | 116.4 |
| 72.5° | 143.6 | 133.1 | 122.6 | 113.0 | 111.1 | 109.2 | 106.4 | 104.0 | 102.1 | 100.6 | 99.7 |
| 75° | 117.3 | 106.8 | 98.3 | 95.9 | 93.5 | 90.1 | 87.8 | 85.9 | 84.9 | 84.9 | 84.4 |
| 77.5° | 89.7 | 83.5 | 79.7 | 75.8 | 73.9 | 72.0 | 70.6 | 69.6 | 68.2 | 68.7 | 67.7 |
| 80° | 65.8 | 63.9 | 60.6 | 58.2 | 57.2 | 55.3 | 54.4 | 53.9 | 52.9 | 52.9 | 52.5 |
| 82.5° | 47.2 | 43.9 | 42.4 | 41.0 | 40.1 | 39.1 | 39.6 | 39.1 | 38.6 | 38.2 | 38.6 |
| 85° | 27.2 | 26.7 | 25.8 | 25.8 | 25.8 | 25.3 | 25.3 | 25.3 | 24.8 | 24.3 | 24.3 |
| 87.5° | 11.9 | 12.4 | 12.4 | 11.4 | 12.9 | 12.9 | 12.4 | 12.4 | 11.9 | 12.9 | 11.9 |
| 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: P243250

CATALOG NUMBER: S122RDRP-H865D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1457.6 | 1457.6 | 1457.6 | 1457.6 |
| 2.5° | 1382.7 | 1382.2 | 1379.3 | 1374.6 |
| 5° | 1307.8 | 1305.9 | 1301.1 | 1304.9 |
| 7.5° | 1227.7 | 1222.4 | 1217.7 | 1220.0 |
| 10° | 1141.8 | 1139.9 | 1137.0 | 1131.3 |
| 12.5° | 1046.9 | 1054.5 | 1046.4 | 1064.6 |
| 15° | 906.2 | 940.1 | 897.6 | 911.9 |
| 17.5° | 836.1 | 836.6 | 830.8 | 824.2 |
| 20° | 770.3 | 753.6 | 759.8 | 748.8 |
| 22.5° | 706.8 | 703.0 | 701.1 | 697.3 |
| 25° | 650.1 | 642.9 | 640.5 | 642.9 |
| 27.5° | 608.1 | 604.8 | 595.7 | 594.3 |
| 30° | 555.6 | 554.2 | 551.4 | 550.4 |
| 32.5° | 522.7 | 516.5 | 515.1 | 509.4 |
| 35° | 486.0 | 482.7 | 480.3 | 478.9 |
| 37.5° | 449.3 | 447.4 | 443.1 | 445.5 |
| 40° | 419.2 | 409.7 | 405.9 | 405.4 |
| 42.5° | 386.3 | 381.1 | 373.5 | 371.1 |
| 45° | 348.2 | 345.8 | 343.4 | 342.5 |
| 47.5° | 314.8 | 313.4 | 310.5 | 309.1 |
| 50° | 290.9 | 287.1 | 286.6 | 286.2 |
| 52.5° | 268.0 | 266.6 | 265.2 | 267.1 |
| 55° | 246.6 | 244.7 | 243.2 | 243.2 |
| 57.5° | 223.2 | 219.9 | 217.0 | 217.5 |
| 60° | 196.0 | 194.1 | 191.7 | 190.8 |
| 62.5° | 164.5 | 164.5 | 164.1 | 164.1 |
| 65° | 149.8 | 148.8 | 148.3 | 148.8 |
| 67.5° | 133.5 | 132.6 | 131.2 | 131.6 |
| 70° | 114.9 | 114.5 | 114.9 | 114.5 |
| 72.5° | 98.3 | 97.8 | 98.3 | 99.2 |
| 75° | 83.0 | 82.5 | 82.0 | 82.0 |
| 77.5° | 67.2 | 66.8 | 65.8 | 66.8 |
| 80° | 52.5 | 52.0 | 51.5 | 51.5 |
| 82.5° | 37.2 | 37.7 | 37.2 | 37.2 |
| 85° | 24.3 | 24.8 | 24.3 | 23.8 |
| 87.5° | 12.4 | 12.9 | 11.9 | 11.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P243250
 CATALOG NUMBER: S122RDRP-H865D927-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 | 16.39 | 17.84 | 16.75 | 18.16 | 18.47 | 22.72 | 24.18 | 23.08 | 24.49 | 24.80 |
| | 3H | 17.56 | 18.86 | 17.94 | 19.19 | 19.56 | 23.97 | 25.27 | 24.35 | 25.60 | 25.97 |
| | 4H | 18.02 | 19.24 | 18.42 | 19.59 | 19.97 | 24.40 | 25.62 | 24.80 | 25.97 | 26.35 |
| | 6H | 18.35 | 19.47 | 18.76 | 19.84 | 20.24 | 24.70 | 25.82 | 25.11 | 26.19 | 26.58 |
| | 8H | 18.45 | 19.52 | 18.88 | 19.91 | 20.31 | 24.78 | 25.85 | 25.21 | 26.24 | 26.65 |
| | 12H | 18.50 | 19.53 | 18.93 | 19.91 | 20.34 | 24.83 | 25.86 | 25.26 | 26.24 | 26.67 |
| 4H | 2H | 17.11 | 18.33 | 17.51 | 18.68 | 19.06 | 22.70 | 23.92 | 23.10 | 24.27 | 24.65 |
| | 3H | 18.44 | 19.45 | 18.85 | 19.85 | 20.25 | 24.09 | 25.10 | 24.50 | 25.50 | 25.90 |
| | 4H | 18.99 | 19.90 | 19.42 | 20.32 | 20.76 | 24.62 | 25.52 | 25.05 | 25.94 | 26.38 |
| | 6H | 19.42 | 20.21 | 19.88 | 20.65 | 21.12 | 25.03 | 25.82 | 25.49 | 26.26 | 26.73 |
| | 8H | 19.55 | 20.29 | 20.02 | 20.73 | 21.20 | 25.16 | 25.90 | 25.63 | 26.35 | 26.81 |
| | 12H | 19.63 | 20.29 | 20.12 | 20.77 | 21.24 | 25.26 | 25.91 | 25.74 | 26.39 | 26.86 |
| 8H | 4H | 19.34 | 20.07 | 19.80 | 20.52 | 20.99 | 24.61 | 25.35 | 25.08 | 25.79 | 26.26 |
| | 6H | 19.86 | 20.47 | 20.36 | 20.96 | 21.44 | 25.08 | 25.68 | 25.58 | 26.18 | 26.66 |
| | 8H | 20.05 | 20.59 | 20.56 | 21.10 | 21.59 | 25.25 | 25.79 | 25.77 | 26.30 | 26.79 |
| | 12H | 20.18 | 20.66 | 20.69 | 21.15 | 21.72 | 25.39 | 25.87 | 25.90 | 26.36 | 26.93 |
| 12H | 4H | 19.38 | 20.04 | 19.86 | 20.51 | 20.99 | 24.59 | 25.25 | 25.08 | 25.73 | 26.20 |
| | 6H | 19.92 | 20.47 | 20.44 | 20.98 | 21.47 | 25.06 | 25.60 | 25.57 | 26.11 | 26.60 |
| | 8H | 20.16 | 20.64 | 20.67 | 21.13 | 21.70 | 25.26 | 25.74 | 25.77 | 26.23 | 26.80 |