

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: P242591

Luminaire Tested: S123RDRP-S775D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242591
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-S775D940-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

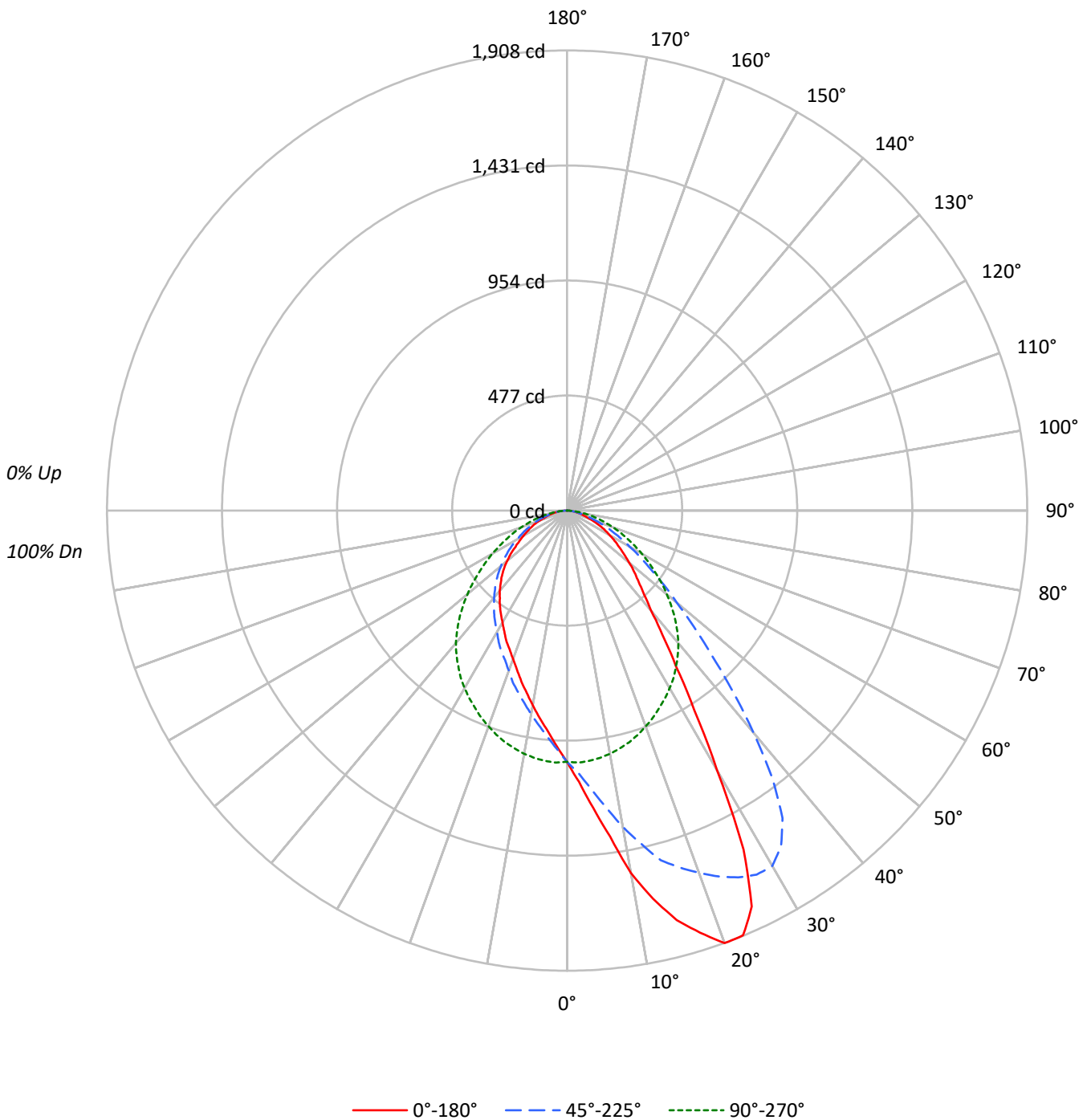
Lumens per Lamp: N/A
Luminaire Lumens: 2593.4 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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: P242591

CATALOG NUMBER: S123RDRP-S775D940-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P242591

CATALOG NUMBER: S123RDRP-S775D940-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 | | | | | 87 | | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | 74 | | | | | 74 | | | |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | 64 | | | | | 64 | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | 56 | | | | | 56 | | | |
| 5 | 80 | 68 | 60 | 53 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 50 | | | | | 50 | | | |
| 6 | 74 | 62 | 53 | 47 | 72 | 61 | 53 | 47 | 59 | 52 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | 44 | | | | | 44 | | | |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 53 | 46 | 42 | 51 | 46 | 41 | 39 | | | | | 39 | | | |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 37 | 36 | | | | | 36 | | | |
| 9 | 60 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | | | 32 | | | |
| 10 | 57 | 44 | 37 | 32 | 55 | 44 | 36 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 | | | | | 29 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 12624 | 12624 | 12624 | 12624 | 12624 |
| 5° | 15049 | 14116 | 12679 | 11447 | 11165 |
| 10° | 18790 | 16397 | 12606 | 10548 | 10087 |
| 15° | 22056 | 18833 | 12477 | 9808 | 9198 |
| 20° | 24615 | 20624 | 12285 | 9116 | 8442 |
| 25° | 24222 | 22445 | 12081 | 8634 | 7979 |
| 30° | 17412 | 23813 | 11894 | 8137 | 7501 |
| 35° | 11625 | 23039 | 11651 | 7798 | 7191 |
| 40° | 8565 | 18993 | 11358 | 7457 | 6872 |
| 45° | 7184 | 14492 | 10846 | 7138 | 6559 |
| 50° | 6340 | 11175 | 10174 | 6751 | 6121 |
| 55° | 5560 | 8914 | 9404 | 6350 | 5522 |
| 60° | 4950 | 7275 | 8669 | 5838 | 5059 |
| 65° | 4348 | 5960 | 7879 | 5383 | 4707 |
| 70° | 3413 | 4788 | 7173 | 4947 | 4299 |
| 75° | 3007 | 3531 | 6266 | 4468 | 3925 |
| 80° | 2618 | 3016 | 5319 | 3923 | 3860 |
| 85° | 2114 | 2295 | 4284 | 3964 | 4089 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 20392 cd/sqm



TEST NUMBER: P242591

CATALOG NUMBER: S123RDRP-S775D940-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.3 | 3.9 |
| 10°-20° | 320.2 | 12.3 |
| 20°-30° | 504.3 | 19.4 |
| 30°-40° | 524.4 | 20.2 |
| 40°-50° | 448.7 | 17.3 |
| 50°-60° | 341.9 | 13.2 |
| 60°-70° | 219.1 | 8.4 |
| 70°-80° | 105.0 | 4.0 |
| 80°-90° | 27.6 | 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° | 926.8 | 35.7 |
| 0°-40° | 1451.2 | 56.0 |
| 0°-60° | 2241.8 | 86.4 |
| 0°-90° | 2593.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2593.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1042 | 1042 | 1042 | 1042 | 1042 | |
| 5° | 1237 | 1160 | 1042 | 941 | 918 | 127 |
| 15° | 1758 | 1501 | 994 | 782 | 733 | 499 |
| 25° | 1811 | 1678 | 903 | 646 | 597 | 787 |
| 35° | 786 | 1557 | 787 | 527 | 486 | 511 |
| 45° | 419 | 845 | 633 | 416 | 383 | 329 |
| 55° | 263 | 422 | 445 | 300 | 261 | 237 |
| 65° | 152 | 208 | 275 | 188 | 164 | 149 |
| 75° | 64 | 75 | 134 | 95 | 84 | 69 |
| 85° | 15 | 16 | 31 | 28 | 29 | 17 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242591

CATALOG NUMBER: S123RDRP-S775D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 |
| 2.5° | 1126.3 | 1128.0 | 1122.2 | 1121.3 | 1114.7 | 1112.9 | 1112.9 | 1103.5 | 1097.7 | 1090.1 | 1085.7 |
| 5° | 1236.8 | 1244.0 | 1240.4 | 1232.4 | 1219.0 | 1215.9 | 1207.4 | 1194.0 | 1178.9 | 1160.1 | 1151.2 |
| 7.5° | 1363.5 | 1378.2 | 1375.5 | 1363.0 | 1348.7 | 1339.8 | 1316.2 | 1297.0 | 1268.0 | 1241.7 | 1221.2 |
| 10° | 1526.6 | 1516.4 | 1508.4 | 1496.3 | 1483.4 | 1462.4 | 1437.5 | 1403.1 | 1363.5 | 1332.2 | 1297.5 |
| 12.5° | 1648.8 | 1649.3 | 1638.6 | 1626.1 | 1606.4 | 1586.8 | 1554.7 | 1511.0 | 1463.3 | 1414.7 | 1373.7 |
| 15° | 1757.6 | 1760.3 | 1753.6 | 1740.7 | 1714.8 | 1679.6 | 1633.2 | 1615.8 | 1549.8 | 1500.8 | 1451.7 |
| 17.5° | 1835.2 | 1835.6 | 1834.3 | 1816.9 | 1788.8 | 1764.7 | 1721.5 | 1680.9 | 1618.5 | 1552.1 | 1486.5 |
| 20° | 1908.3 | 1903.8 | 1904.7 | 1884.7 | 1865.1 | 1836.1 | 1794.2 | 1727.7 | 1678.7 | 1598.9 | 1530.7 |
| 22.5° | 1906.5 | 1906.5 | 1910.5 | 1907.0 | 1894.0 | 1873.5 | 1842.8 | 1789.3 | 1723.3 | 1642.6 | 1563.6 |
| 25° | 1811.1 | 1807.5 | 1828.5 | 1834.3 | 1857.0 | 1861.0 | 1851.2 | 1820.5 | 1761.2 | 1678.2 | 1583.3 |
| 27.5° | 1583.7 | 1570.8 | 1614.5 | 1657.7 | 1715.2 | 1751.8 | 1789.3 | 1797.7 | 1769.6 | 1701.9 | 1602.4 |
| 30° | 1244.0 | 1285.9 | 1305.5 | 1375.9 | 1454.4 | 1548.0 | 1630.1 | 1708.1 | 1727.3 | 1701.4 | 1623.4 |
| 32.5° | 980.0 | 1015.2 | 1030.8 | 1088.8 | 1160.6 | 1274.3 | 1407.6 | 1526.2 | 1618.9 | 1650.1 | 1610.9 |
| 35° | 785.6 | 786.1 | 823.5 | 850.3 | 918.0 | 1030.8 | 1150.3 | 1298.4 | 1445.5 | 1557.0 | 1568.6 |
| 37.5° | 648.3 | 650.1 | 674.1 | 700.9 | 755.3 | 818.6 | 929.6 | 1054.5 | 1231.5 | 1397.8 | 1484.3 |
| 40° | 541.3 | 545.3 | 562.2 | 588.5 | 625.1 | 670.1 | 752.2 | 868.1 | 1009.9 | 1200.3 | 1355.9 |
| 42.5° | 472.6 | 479.8 | 486.4 | 505.2 | 524.3 | 565.8 | 628.2 | 711.2 | 836.9 | 1014.3 | 1199.8 |
| 45° | 419.1 | 422.7 | 429.4 | 438.7 | 459.2 | 488.7 | 533.3 | 593.4 | 700.5 | 845.4 | 1025.0 |
| 47.5° | 378.1 | 375.9 | 383.4 | 391.5 | 405.3 | 426.7 | 457.9 | 510.1 | 590.3 | 711.6 | 867.2 |
| 50° | 336.2 | 335.7 | 340.6 | 346.4 | 359.4 | 374.1 | 398.6 | 435.6 | 496.2 | 592.6 | 732.1 |
| 52.5° | 296.9 | 299.2 | 302.3 | 309.9 | 318.3 | 329.5 | 350.9 | 375.0 | 424.9 | 504.7 | 615.3 |
| 55° | 263.1 | 264.4 | 269.3 | 273.3 | 280.0 | 292.0 | 305.9 | 328.2 | 363.8 | 421.8 | 517.6 |
| 57.5° | 233.6 | 233.2 | 238.1 | 238.5 | 247.0 | 257.3 | 268.4 | 285.8 | 313.0 | 358.9 | 425.8 |
| 60° | 204.2 | 202.9 | 206.9 | 210.0 | 214.0 | 222.0 | 231.0 | 247.9 | 268.4 | 300.1 | 355.4 |
| 62.5° | 177.5 | 177.0 | 179.7 | 182.8 | 185.9 | 193.1 | 200.2 | 212.2 | 227.4 | 252.8 | 293.8 |
| 65° | 151.6 | 152.9 | 154.3 | 155.6 | 157.4 | 161.8 | 169.0 | 177.9 | 189.0 | 207.8 | 239.4 |
| 67.5° | 124.8 | 126.6 | 127.1 | 130.2 | 133.8 | 136.0 | 140.0 | 148.5 | 156.9 | 173.9 | 192.6 |
| 70° | 96.3 | 95.9 | 96.3 | 97.6 | 102.5 | 107.5 | 113.2 | 119.0 | 124.0 | 135.1 | 150.3 |
| 72.5° | 79.4 | 78.5 | 79.8 | 79.8 | 81.6 | 82.0 | 85.2 | 90.5 | 97.2 | 103.9 | 113.7 |
| 75° | 64.2 | 64.2 | 64.2 | 64.2 | 66.0 | 66.9 | 68.2 | 69.6 | 71.8 | 75.4 | 83.4 |
| 77.5° | 49.9 | 49.9 | 50.8 | 51.3 | 51.7 | 52.2 | 53.1 | 54.4 | 55.3 | 57.1 | 61.1 |
| 80° | 37.5 | 37.9 | 37.5 | 37.9 | 37.9 | 38.8 | 39.2 | 40.6 | 41.0 | 43.2 | 44.6 |
| 82.5° | 25.9 | 25.4 | 25.9 | 26.3 | 26.3 | 27.2 | 27.2 | 28.1 | 28.1 | 29.0 | 30.3 |
| 85° | 15.2 | 14.3 | 15.2 | 14.7 | 15.6 | 14.7 | 15.2 | 16.1 | 16.1 | 16.5 | 18.3 |
| 87.5° | 4.5 | 5.4 | 4.5 | 4.9 | 4.9 | 5.4 | 5.4 | 5.4 | 6.2 | 5.8 | 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: P242591

CATALOG NUMBER: S123RDRP-S775D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 |
| 2.5° | 1083.9 | 1082.6 | 1076.3 | 1069.2 | 1059.8 | 1053.6 | 1048.7 | 1046.0 | 1038.0 | 1028.2 | 1021.5 |
| 5° | 1141.9 | 1128.5 | 1114.2 | 1096.8 | 1080.8 | 1064.3 | 1054.0 | 1042.0 | 1027.3 | 1010.8 | 999.2 |
| 7.5° | 1199.4 | 1176.2 | 1150.8 | 1124.5 | 1097.7 | 1074.1 | 1052.2 | 1034.4 | 1012.1 | 989.4 | 973.8 |
| 10° | 1267.6 | 1229.2 | 1189.6 | 1149.0 | 1112.0 | 1077.2 | 1050.5 | 1024.2 | 996.1 | 968.9 | 948.4 |
| 12.5° | 1329.6 | 1276.1 | 1228.8 | 1176.6 | 1126.7 | 1083.5 | 1042.0 | 1009.9 | 974.7 | 945.2 | 921.2 |
| 15° | 1380.0 | 1328.2 | 1272.9 | 1197.1 | 1134.3 | 1081.7 | 1034.9 | 994.3 | 953.3 | 917.6 | 894.8 |
| 17.5° | 1432.6 | 1354.1 | 1281.4 | 1222.6 | 1140.5 | 1076.8 | 1021.9 | 974.7 | 930.1 | 893.5 | 865.0 |
| 20° | 1462.9 | 1387.5 | 1306.8 | 1226.1 | 1145.9 | 1072.3 | 1005.9 | 952.4 | 905.6 | 862.7 | 836.9 |
| 22.5° | 1481.2 | 1393.3 | 1307.3 | 1219.0 | 1132.5 | 1055.4 | 989.8 | 929.6 | 877.9 | 837.8 | 804.3 |
| 25° | 1494.5 | 1392.9 | 1299.2 | 1213.6 | 1126.7 | 1043.8 | 965.7 | 903.3 | 848.5 | 805.2 | 771.3 |
| 27.5° | 1505.2 | 1387.5 | 1280.1 | 1186.9 | 1099.1 | 1014.8 | 944.3 | 877.5 | 822.6 | 777.6 | 740.6 |
| 30° | 1507.9 | 1380.8 | 1257.3 | 1154.3 | 1064.7 | 988.9 | 913.1 | 849.8 | 791.0 | 742.4 | 708.5 |
| 32.5° | 1511.5 | 1364.3 | 1226.6 | 1115.6 | 1023.3 | 948.4 | 881.5 | 821.7 | 761.1 | 713.4 | 678.6 |
| 35° | 1499.0 | 1360.3 | 1195.4 | 1069.6 | 977.8 | 905.1 | 843.1 | 787.4 | 728.1 | 681.7 | 646.5 |
| 37.5° | 1461.1 | 1338.5 | 1164.2 | 1018.4 | 923.4 | 856.5 | 804.8 | 754.0 | 699.1 | 648.3 | 615.7 |
| 40° | 1397.3 | 1302.8 | 1126.7 | 972.4 | 872.1 | 803.0 | 757.5 | 717.8 | 665.2 | 618.4 | 582.7 |
| 42.5° | 1302.4 | 1254.2 | 1091.0 | 924.3 | 814.1 | 748.2 | 711.6 | 675.0 | 630.5 | 582.7 | 549.8 |
| 45° | 1182.0 | 1189.6 | 1039.8 | 872.6 | 761.5 | 694.7 | 658.5 | 632.7 | 591.7 | 552.4 | 518.1 |
| 47.5° | 1035.7 | 1099.1 | 984.9 | 818.2 | 704.5 | 641.6 | 609.9 | 586.3 | 557.8 | 517.2 | 485.5 |
| 50° | 893.1 | 994.3 | 916.3 | 763.3 | 651.4 | 589.0 | 557.8 | 539.5 | 515.4 | 485.1 | 455.2 |
| 52.5° | 761.5 | 872.1 | 833.3 | 702.2 | 593.9 | 538.2 | 507.8 | 493.6 | 475.7 | 447.6 | 421.3 |
| 55° | 642.5 | 752.6 | 741.9 | 640.7 | 536.4 | 485.1 | 461.9 | 445.0 | 432.0 | 410.6 | 389.2 |
| 57.5° | 539.0 | 645.6 | 647.8 | 572.5 | 486.4 | 434.3 | 414.2 | 400.8 | 391.9 | 375.0 | 354.0 |
| 60° | 442.3 | 538.2 | 556.9 | 503.4 | 432.0 | 387.5 | 367.8 | 357.6 | 350.9 | 338.0 | 322.8 |
| 62.5° | 362.0 | 440.1 | 461.9 | 427.1 | 379.9 | 338.9 | 324.6 | 314.8 | 310.8 | 300.1 | 287.1 |
| 65° | 289.4 | 357.1 | 377.6 | 356.2 | 329.0 | 295.6 | 283.1 | 274.7 | 270.6 | 264.4 | 254.6 |
| 67.5° | 228.3 | 280.9 | 303.2 | 285.4 | 275.1 | 251.5 | 243.0 | 238.1 | 234.5 | 230.1 | 221.6 |
| 70° | 174.8 | 211.3 | 234.5 | 230.5 | 222.5 | 211.3 | 205.5 | 202.4 | 198.9 | 195.3 | 188.2 |
| 72.5° | 132.0 | 154.3 | 175.7 | 179.2 | 173.0 | 173.0 | 168.1 | 167.2 | 165.4 | 161.0 | 157.8 |
| 75° | 93.2 | 110.6 | 125.7 | 131.5 | 134.2 | 136.4 | 134.2 | 133.8 | 133.3 | 129.7 | 127.5 |
| 77.5° | 64.7 | 75.8 | 86.1 | 96.3 | 99.9 | 103.0 | 103.4 | 105.2 | 103.9 | 101.7 | 100.8 |
| 80° | 46.8 | 49.0 | 55.7 | 64.2 | 70.9 | 73.6 | 75.4 | 76.2 | 75.8 | 75.4 | 73.6 |
| 82.5° | 30.8 | 32.5 | 34.8 | 40.1 | 45.5 | 50.4 | 51.3 | 50.8 | 52.2 | 52.6 | 51.3 |
| 85° | 18.3 | 18.7 | 19.6 | 20.5 | 23.6 | 28.5 | 29.9 | 30.8 | 31.7 | 31.7 | 29.0 |
| 87.5° | 7.1 | 6.7 | 7.6 | 7.6 | 8.9 | 9.4 | 12.0 | 14.3 | 14.7 | 12.9 | 12.9 |
| 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: P242591

CATALOG NUMBER: S123RDRP-S775D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 | 1041.5 |
| 2.5° | 1019.2 | 1013.4 | 1009.4 | 1000.5 | 994.7 | 988.5 | 982.2 | 986.3 | 985.8 | 985.4 | 985.4 |
| 5° | 989.4 | 979.1 | 969.8 | 957.7 | 950.1 | 940.8 | 933.6 | 932.7 | 934.5 | 928.3 | 924.7 |
| 7.5° | 961.3 | 947.9 | 934.5 | 922.0 | 908.2 | 897.5 | 890.8 | 888.2 | 883.3 | 879.2 | 875.7 |
| 10° | 931.4 | 914.9 | 902.0 | 885.5 | 870.3 | 857.0 | 848.5 | 842.7 | 839.6 | 836.4 | 830.6 |
| 12.5° | 900.6 | 884.6 | 867.2 | 848.0 | 833.8 | 817.7 | 811.9 | 805.2 | 798.5 | 795.0 | 786.5 |
| 15° | 870.8 | 849.8 | 832.4 | 812.8 | 796.8 | 781.6 | 772.7 | 759.8 | 758.0 | 753.5 | 745.5 |
| 17.5° | 841.8 | 818.6 | 793.2 | 779.8 | 763.8 | 747.7 | 733.4 | 729.4 | 716.1 | 711.6 | 704.0 |
| 20° | 806.1 | 785.2 | 766.9 | 747.7 | 721.4 | 706.7 | 696.0 | 690.2 | 679.9 | 673.7 | 669.2 |
| 22.5° | 775.4 | 754.0 | 732.1 | 708.9 | 688.4 | 671.5 | 664.3 | 654.5 | 650.1 | 640.7 | 635.8 |
| 25° | 746.4 | 723.2 | 697.8 | 673.7 | 658.1 | 645.6 | 633.1 | 625.1 | 617.1 | 613.1 | 604.1 |
| 27.5° | 711.2 | 688.0 | 663.4 | 644.7 | 626.9 | 614.4 | 602.4 | 595.7 | 585.4 | 578.7 | 573.8 |
| 30° | 683.1 | 654.5 | 634.0 | 617.5 | 593.0 | 581.4 | 572.9 | 564.0 | 556.9 | 549.8 | 544.8 |
| 32.5° | 650.5 | 625.1 | 605.9 | 584.5 | 567.1 | 554.2 | 542.6 | 535.0 | 529.2 | 522.6 | 517.6 |
| 35° | 616.2 | 594.3 | 574.3 | 553.8 | 539.9 | 527.0 | 514.1 | 507.4 | 501.6 | 495.4 | 490.9 |
| 37.5° | 585.0 | 564.5 | 545.7 | 526.1 | 509.2 | 498.0 | 487.3 | 482.9 | 474.8 | 470.4 | 465.9 |
| 40° | 556.4 | 536.4 | 515.9 | 497.1 | 479.3 | 471.3 | 461.9 | 454.3 | 447.2 | 444.1 | 439.2 |
| 42.5° | 525.2 | 505.2 | 488.7 | 468.2 | 454.3 | 442.7 | 434.3 | 425.8 | 420.9 | 416.0 | 413.8 |
| 45° | 494.5 | 476.6 | 459.7 | 439.6 | 425.8 | 416.4 | 406.6 | 399.0 | 394.1 | 391.0 | 386.1 |
| 47.5° | 465.0 | 446.8 | 429.8 | 412.0 | 398.6 | 387.9 | 377.6 | 372.7 | 366.1 | 362.5 | 358.9 |
| 50° | 432.5 | 416.4 | 398.2 | 382.1 | 368.7 | 358.0 | 350.0 | 343.3 | 337.5 | 332.6 | 330.4 |
| 52.5° | 402.6 | 385.2 | 370.1 | 355.4 | 341.1 | 328.6 | 321.5 | 314.3 | 310.3 | 304.5 | 301.9 |
| 55° | 369.2 | 352.7 | 339.3 | 324.6 | 310.8 | 300.5 | 291.6 | 285.4 | 280.9 | 274.7 | 271.1 |
| 57.5° | 338.4 | 324.1 | 307.6 | 294.7 | 280.0 | 272.0 | 264.4 | 255.5 | 250.1 | 245.2 | 241.7 |
| 60° | 307.2 | 290.3 | 276.4 | 264.4 | 251.9 | 240.8 | 234.1 | 227.4 | 221.6 | 216.7 | 213.6 |
| 62.5° | 274.7 | 260.4 | 247.5 | 234.1 | 222.9 | 213.6 | 205.5 | 200.2 | 195.3 | 192.6 | 189.5 |
| 65° | 241.2 | 229.6 | 216.2 | 205.5 | 194.8 | 187.7 | 181.5 | 176.6 | 173.0 | 170.8 | 168.1 |
| 67.5° | 210.4 | 199.3 | 187.3 | 176.1 | 169.0 | 163.2 | 158.7 | 154.3 | 152.5 | 149.8 | 148.0 |
| 70° | 180.6 | 169.0 | 158.7 | 150.7 | 143.6 | 139.6 | 136.9 | 133.8 | 132.0 | 128.4 | 126.6 |
| 72.5° | 148.0 | 140.4 | 133.8 | 127.5 | 122.2 | 118.6 | 115.0 | 111.0 | 107.9 | 103.9 | 102.1 |
| 75° | 121.7 | 114.1 | 108.3 | 103.9 | 100.3 | 95.4 | 90.5 | 86.5 | 85.2 | 83.8 | 83.4 |
| 77.5° | 95.0 | 90.1 | 85.6 | 82.0 | 77.1 | 72.7 | 71.3 | 70.4 | 70.0 | 69.1 | 69.1 |
| 80° | 70.9 | 66.4 | 63.3 | 58.9 | 56.2 | 56.2 | 56.2 | 55.3 | 55.7 | 55.7 | 55.7 |
| 82.5° | 48.2 | 44.1 | 42.8 | 41.9 | 41.9 | 42.4 | 42.4 | 42.8 | 42.4 | 43.2 | 42.8 |
| 85° | 27.2 | 27.6 | 28.5 | 28.1 | 28.5 | 28.5 | 29.4 | 29.0 | 29.4 | 28.5 | 29.4 |
| 87.5° | 12.5 | 13.8 | 14.3 | 14.7 | 15.2 | 14.7 | 15.2 | 15.2 | 15.6 | 15.6 | 15.6 |
| 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: P242591

CATALOG NUMBER: S123RDRP-S775D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1041.5 | 1041.5 | 1041.5 | 1041.5 |
| 2.5° | 980.0 | 979.6 | 980.0 | 978.2 |
| 5° | 923.4 | 922.9 | 921.6 | 917.6 |
| 7.5° | 872.1 | 871.2 | 867.7 | 868.5 |
| 10° | 827.5 | 828.0 | 822.6 | 819.5 |
| 12.5° | 784.3 | 781.6 | 777.6 | 774.0 |
| 15° | 747.3 | 742.8 | 732.1 | 733.0 |
| 17.5° | 701.3 | 697.8 | 697.3 | 691.1 |
| 20° | 662.1 | 659.9 | 660.8 | 654.5 |
| 22.5° | 631.3 | 629.1 | 624.2 | 623.3 |
| 25° | 601.5 | 597.9 | 594.3 | 596.6 |
| 27.5° | 571.2 | 568.5 | 564.5 | 564.5 |
| 30° | 542.6 | 539.9 | 538.2 | 535.9 |
| 32.5° | 513.6 | 513.6 | 510.1 | 510.1 |
| 35° | 489.1 | 486.4 | 485.5 | 486.0 |
| 37.5° | 465.5 | 461.9 | 460.1 | 458.3 |
| 40° | 439.6 | 436.1 | 435.2 | 434.3 |
| 42.5° | 410.6 | 409.7 | 409.3 | 407.5 |
| 45° | 384.8 | 384.3 | 381.7 | 382.6 |
| 47.5° | 357.1 | 354.9 | 353.6 | 354.9 |
| 50° | 328.6 | 327.7 | 323.7 | 324.6 |
| 52.5° | 300.1 | 296.1 | 295.2 | 294.3 |
| 55° | 268.0 | 264.0 | 262.2 | 261.3 |
| 57.5° | 236.3 | 235.0 | 233.2 | 234.5 |
| 60° | 209.1 | 209.1 | 209.1 | 208.7 |
| 62.5° | 188.2 | 186.8 | 186.4 | 187.3 |
| 65° | 166.8 | 166.3 | 164.5 | 164.1 |
| 67.5° | 147.1 | 145.4 | 145.4 | 144.5 |
| 70° | 124.4 | 123.5 | 120.8 | 121.3 |
| 72.5° | 99.9 | 99.0 | 99.0 | 98.1 |
| 75° | 82.9 | 82.5 | 82.0 | 83.8 |
| 77.5° | 69.1 | 69.1 | 69.6 | 68.7 |
| 80° | 55.7 | 55.7 | 55.3 | 55.3 |
| 82.5° | 41.9 | 42.4 | 42.8 | 41.9 |
| 85° | 29.4 | 29.0 | 29.9 | 29.4 |
| 87.5° | 16.5 | 15.6 | 15.6 | 16.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P242591
 CATALOG NUMBER: S123RDRP-S775D940-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 | 16.45 | 17.94 | 16.81 | 18.25 | 18.57 | 19.84 | 21.34 | 20.21 | 21.65 | 21.97 |
| | 3H | 17.54 | 18.88 | 17.92 | 19.21 | 19.57 | 21.25 | 22.59 | 21.63 | 22.92 | 23.28 |
| | 4H | 17.88 | 19.13 | 18.28 | 19.48 | 19.86 | 21.75 | 23.01 | 22.15 | 23.36 | 23.73 |
| | 6H | 18.12 | 19.28 | 18.53 | 19.65 | 20.04 | 22.10 | 23.26 | 22.52 | 23.63 | 24.02 |
| | 8H | 18.19 | 19.29 | 18.62 | 19.68 | 20.08 | 22.21 | 23.31 | 22.63 | 23.70 | 24.10 |
| | 12H | 18.23 | 19.28 | 18.66 | 19.66 | 20.09 | 22.27 | 23.32 | 22.70 | 23.70 | 24.13 |
| 4H | 2H | 17.43 | 18.68 | 17.83 | 19.03 | 19.41 | 20.08 | 21.34 | 20.48 | 21.68 | 22.06 |
| | 3H | 18.60 | 19.63 | 19.01 | 20.03 | 20.43 | 21.78 | 22.81 | 22.19 | 23.21 | 23.61 |
| | 4H | 18.98 | 19.92 | 19.42 | 20.33 | 20.77 | 22.39 | 23.32 | 22.82 | 23.74 | 24.18 |
| | 6H | 19.29 | 20.10 | 19.75 | 20.55 | 21.01 | 22.86 | 23.67 | 23.31 | 24.11 | 24.57 |
| | 8H | 19.38 | 20.14 | 19.85 | 20.59 | 21.05 | 23.00 | 23.76 | 23.46 | 24.20 | 24.67 |
| | 12H | 19.44 | 20.12 | 19.93 | 20.60 | 21.07 | 23.10 | 23.77 | 23.58 | 24.25 | 24.72 |
| 8H | 4H | 19.35 | 20.11 | 19.81 | 20.55 | 21.02 | 22.44 | 23.20 | 22.91 | 23.64 | 24.11 |
| | 6H | 19.72 | 20.35 | 20.22 | 20.84 | 21.32 | 22.98 | 23.60 | 23.47 | 24.09 | 24.57 |
| | 8H | 19.86 | 20.42 | 20.37 | 20.93 | 21.42 | 23.17 | 23.73 | 23.69 | 24.24 | 24.73 |
| | 12H | 19.96 | 20.45 | 20.47 | 20.94 | 21.51 | 23.33 | 23.82 | 23.84 | 24.31 | 24.88 |
| 12H | 4H | 19.38 | 20.06 | 19.86 | 20.53 | 21.01 | 22.43 | 23.10 | 22.91 | 23.58 | 24.05 |
| | 6H | 19.77 | 20.33 | 20.28 | 20.84 | 21.33 | 22.96 | 23.53 | 23.48 | 24.04 | 24.52 |
| | 8H | 19.94 | 20.44 | 20.45 | 20.93 | 21.50 | 23.20 | 23.69 | 23.71 | 24.18 | 24.75 |