

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: P242483

Luminaire Tested: S123DRP-S775D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DRP-S775D935-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

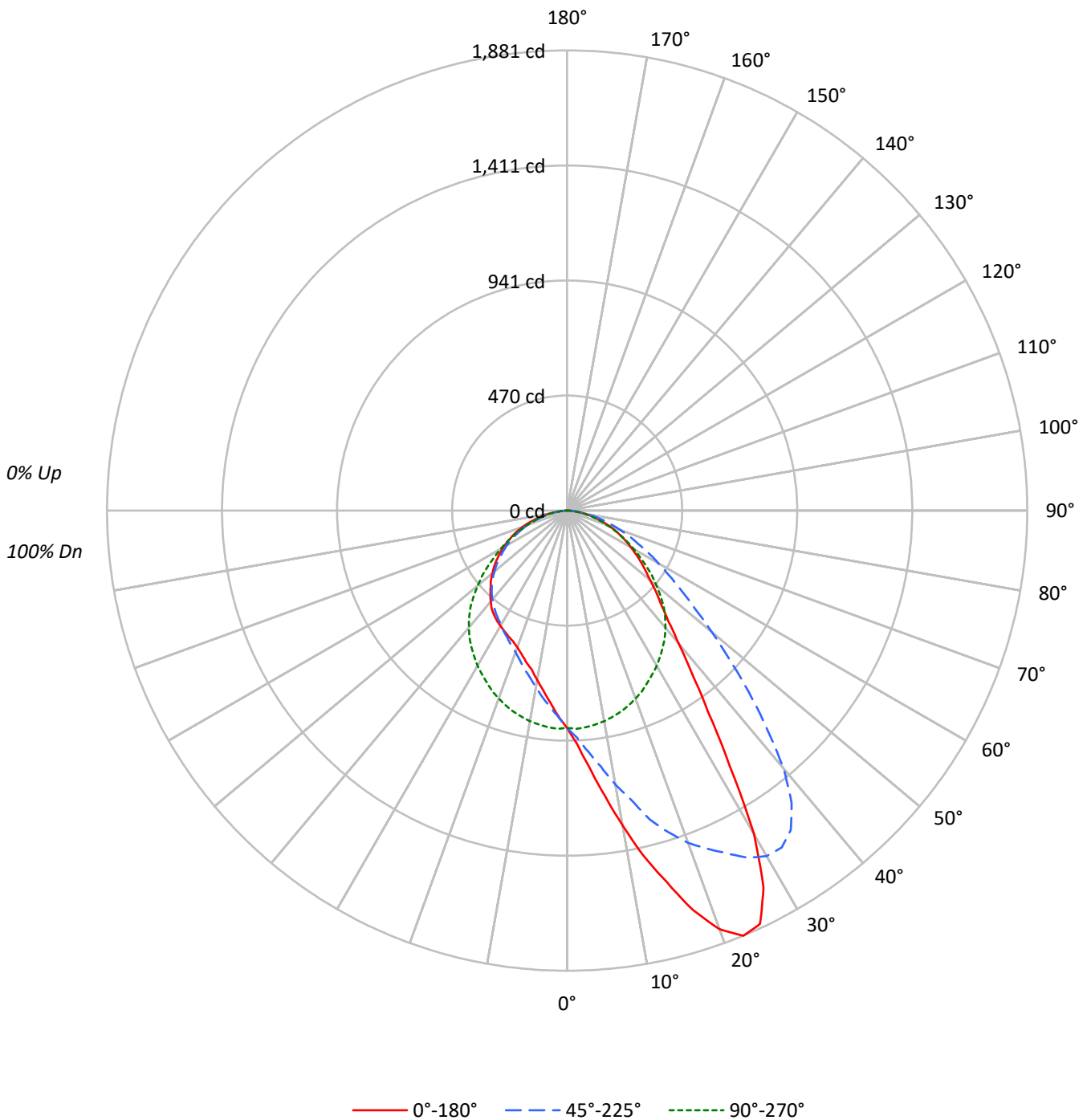
Lumens per Lamp: N/A
Luminaire Lumens: 2681.8 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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: P242483

CATALOG NUMBER: S123DRP-S775D935-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P242483

CATALOG NUMBER: S123DRP-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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | | | | 85 | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 74 | | | | 72 | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 69 | 65 | 72 | 68 | 64 | | | | 62 | |
| 4 | 84 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | | | | 53 | |
| 5 | 78 | 66 | 57 | 51 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | | | | 47 | |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 48 | 43 | | | | 41 | |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | | | | 36 | |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | | | | 33 | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 41 | 36 | 31 | | | | 29 | |
| 10 | 55 | 42 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 38 | 33 | 28 | | | | 27 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 10770 | 10770 | 10770 | 10770 | 10770 |
| 5° | 12843 | 12036 | 10816 | 9795 | 9586 |
| 10° | 16076 | 13993 | 10761 | 9023 | 8658 |
| 15° | 19718 | 16411 | 10674 | 8416 | 8060 |
| 20° | 23488 | 18635 | 10540 | 7941 | 7674 |
| 25° | 24940 | 20669 | 10374 | 7709 | 7589 |
| 30° | 21378 | 22824 | 10255 | 7562 | 7628 |
| 35° | 14867 | 23581 | 10084 | 7536 | 7708 |
| 40° | 11198 | 21769 | 9883 | 7521 | 7684 |
| 45° | 9298 | 18006 | 9586 | 7467 | 7585 |
| 50° | 8329 | 14531 | 8978 | 7322 | 7517 |
| 55° | 7787 | 12054 | 8324 | 7113 | 7424 |
| 60° | 7304 | 10427 | 7639 | 6909 | 7348 |
| 65° | 6863 | 9172 | 6964 | 6557 | 7113 |
| 70° | 6439 | 8194 | 6195 | 6025 | 6773 |
| 75° | 5765 | 7095 | 5423 | 5381 | 6210 |
| 80° | 5047 | 5829 | 4446 | 4356 | 5347 |
| 85° | 3950 | 4548 | 3227 | 3171 | 3588 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 21282 cd/sqm



TEST NUMBER: P242483

CATALOG NUMBER: S123DRP-S775D935-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.4 | 3.3 |
| 10°-20° | 280.7 | 10.5 |
| 20°-30° | 472.3 | 17.6 |
| 30°-40° | 533.7 | 19.9 |
| 40°-50° | 478.1 | 17.8 |
| 50°-60° | 385.9 | 14.4 |
| 60°-70° | 268.9 | 10.0 |
| 70°-80° | 141.1 | 5.3 |
| 80°-90° | 33.8 | 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° | 840.3 | 31.3 |
| 0°-40° | 1374.0 | 51.2 |
| 0°-60° | 2238.0 | 83.5 |
| 0°-90° | 2681.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2681.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 888 | 888 | 888 | 888 | 888 | |
| 5° | 1056 | 989 | 889 | 805 | 788 | 109 |
| 15° | 1571 | 1308 | 851 | 671 | 642 | 454 |
| 25° | 1865 | 1545 | 776 | 576 | 567 | 824 |
| 35° | 1005 | 1594 | 682 | 509 | 521 | 648 |
| 45° | 542 | 1050 | 559 | 436 | 442 | 428 |
| 55° | 368 | 570 | 394 | 337 | 351 | 331 |
| 65° | 239 | 320 | 243 | 229 | 248 | 238 |
| 75° | 123 | 152 | 116 | 115 | 133 | 132 |
| 85° | 28 | 33 | 23 | 23 | 26 | 34 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242483

CATALOG NUMBER: S123DRP-S775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 |
| 2.5° | 956.5 | 955.7 | 953.5 | 955.2 | 951.8 | 947.1 | 946.6 | 942.3 | 929.8 | 929.0 | 925.5 |
| 5° | 1055.5 | 1052.1 | 1051.7 | 1051.2 | 1045.2 | 1037.0 | 1021.5 | 1020.2 | 999.6 | 989.2 | 976.8 |
| 7.5° | 1175.2 | 1173.9 | 1170.5 | 1166.6 | 1146.4 | 1136.5 | 1121.8 | 1102.9 | 1078.8 | 1055.5 | 1040.9 |
| 10° | 1306.1 | 1320.3 | 1302.6 | 1290.6 | 1279.4 | 1258.3 | 1233.8 | 1203.2 | 1172.6 | 1136.9 | 1109.8 |
| 12.5° | 1446.4 | 1451.6 | 1451.6 | 1440.4 | 1421.5 | 1386.6 | 1338.4 | 1303.9 | 1276.4 | 1210.9 | 1187.7 |
| 15° | 1571.3 | 1597.5 | 1580.7 | 1542.0 | 1542.8 | 1512.3 | 1455.5 | 1393.0 | 1359.9 | 1307.8 | 1236.8 |
| 17.5° | 1712.5 | 1717.2 | 1712.0 | 1675.9 | 1658.2 | 1613.9 | 1562.7 | 1504.5 | 1442.1 | 1378.8 | 1305.2 |
| 20° | 1820.9 | 1818.4 | 1803.3 | 1786.5 | 1749.5 | 1716.8 | 1659.5 | 1592.8 | 1506.7 | 1444.7 | 1362.5 |
| 22.5° | 1881.2 | 1876.5 | 1871.3 | 1858.0 | 1828.7 | 1793.0 | 1743.0 | 1668.5 | 1587.6 | 1496.4 | 1398.2 |
| 25° | 1864.8 | 1870.4 | 1871.3 | 1867.4 | 1856.7 | 1835.6 | 1795.1 | 1737.0 | 1655.2 | 1545.4 | 1446.4 |
| 27.5° | 1738.3 | 1752.5 | 1770.6 | 1782.6 | 1802.0 | 1814.9 | 1802.0 | 1765.4 | 1698.3 | 1600.1 | 1478.3 |
| 30° | 1527.4 | 1510.1 | 1552.8 | 1606.6 | 1643.2 | 1707.7 | 1743.9 | 1746.0 | 1712.0 | 1630.7 | 1512.7 |
| 32.5° | 1234.6 | 1262.6 | 1275.5 | 1344.8 | 1435.7 | 1510.1 | 1591.1 | 1663.0 | 1679.7 | 1632.4 | 1532.9 |
| 35° | 1004.7 | 1028.4 | 1062.9 | 1097.3 | 1183.4 | 1257.4 | 1384.0 | 1494.2 | 1582.0 | 1593.6 | 1530.4 |
| 37.5° | 835.1 | 848.9 | 870.0 | 906.6 | 965.6 | 1057.3 | 1157.6 | 1300.9 | 1421.9 | 1507.1 | 1498.5 |
| 40° | 707.7 | 711.2 | 735.7 | 762.0 | 807.6 | 879.9 | 968.2 | 1091.3 | 1243.7 | 1375.8 | 1430.9 |
| 42.5° | 612.1 | 620.8 | 627.6 | 652.6 | 686.6 | 736.6 | 817.1 | 913.5 | 1049.9 | 1207.1 | 1328.0 |
| 45° | 542.4 | 551.0 | 557.5 | 574.3 | 600.1 | 636.7 | 693.9 | 786.9 | 893.3 | 1050.4 | 1195.4 |
| 47.5° | 494.2 | 493.3 | 498.9 | 512.3 | 530.8 | 560.1 | 602.2 | 664.2 | 766.3 | 897.6 | 1049.5 |
| 50° | 441.7 | 448.6 | 450.3 | 460.2 | 474.0 | 494.2 | 527.8 | 578.6 | 658.6 | 770.6 | 907.5 |
| 52.5° | 404.7 | 405.5 | 411.1 | 417.6 | 429.2 | 443.8 | 471.8 | 508.8 | 567.4 | 658.6 | 781.8 |
| 55° | 368.5 | 368.5 | 373.2 | 378.8 | 385.7 | 399.9 | 419.3 | 448.6 | 496.3 | 570.4 | 674.6 |
| 57.5° | 334.9 | 336.6 | 340.9 | 342.2 | 348.3 | 358.2 | 375.0 | 398.2 | 434.8 | 494.6 | 580.7 |
| 60° | 301.3 | 305.2 | 304.8 | 308.2 | 313.4 | 320.7 | 334.5 | 352.6 | 384.4 | 430.1 | 499.8 |
| 62.5° | 272.1 | 270.8 | 270.8 | 275.1 | 280.2 | 287.1 | 294.9 | 309.9 | 335.8 | 375.0 | 431.8 |
| 65° | 239.3 | 238.5 | 241.5 | 244.1 | 245.8 | 251.0 | 257.9 | 271.6 | 289.7 | 319.8 | 365.9 |
| 67.5° | 210.9 | 208.4 | 210.5 | 211.4 | 214.4 | 218.7 | 225.6 | 234.2 | 248.8 | 274.2 | 311.2 |
| 70° | 181.7 | 179.5 | 179.1 | 179.9 | 182.5 | 185.5 | 190.3 | 198.5 | 211.8 | 231.2 | 256.6 |
| 72.5° | 151.5 | 150.2 | 150.2 | 152.4 | 153.3 | 155.0 | 158.0 | 165.3 | 175.2 | 188.6 | 211.8 |
| 75° | 123.1 | 123.1 | 123.1 | 123.5 | 124.8 | 126.6 | 129.1 | 133.0 | 141.2 | 151.5 | 167.5 |
| 77.5° | 97.3 | 97.7 | 96.9 | 96.4 | 98.6 | 99.4 | 99.9 | 104.2 | 108.9 | 116.7 | 129.1 |
| 80° | 72.3 | 70.2 | 71.0 | 72.3 | 73.2 | 73.6 | 74.9 | 75.8 | 79.6 | 83.5 | 91.7 |
| 82.5° | 49.1 | 47.4 | 47.4 | 49.5 | 49.5 | 49.9 | 51.2 | 52.5 | 53.4 | 56.8 | 60.3 |
| 85° | 28.4 | 28.4 | 28.8 | 28.8 | 29.3 | 28.8 | 30.1 | 30.6 | 30.6 | 32.7 | 35.3 |
| 87.5° | 12.9 | 12.1 | 12.5 | 12.9 | 12.5 | 12.9 | 13.3 | 13.8 | 14.2 | 14.6 | 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: P242483

CATALOG NUMBER: S123DRP-S775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 |
| 2.5° | 923.0 | 919.5 | 916.1 | 910.0 | 904.9 | 897.6 | 895.4 | 892.8 | 885.1 | 878.2 | 873.0 |
| 5° | 972.0 | 961.7 | 946.6 | 932.9 | 921.7 | 906.6 | 898.0 | 888.9 | 876.0 | 864.4 | 854.9 |
| 7.5° | 1019.0 | 1000.9 | 979.8 | 957.0 | 935.0 | 913.9 | 897.1 | 882.1 | 865.3 | 848.9 | 836.4 |
| 10° | 1077.1 | 1047.8 | 1015.1 | 979.8 | 949.6 | 920.4 | 895.8 | 874.3 | 851.1 | 830.8 | 814.0 |
| 12.5° | 1143.4 | 1096.4 | 1048.2 | 1003.5 | 966.4 | 923.0 | 892.0 | 863.1 | 836.0 | 810.6 | 791.2 |
| 15° | 1192.9 | 1137.8 | 1084.4 | 1025.4 | 971.2 | 920.4 | 885.1 | 850.6 | 820.1 | 795.1 | 771.0 |
| 17.5° | 1241.9 | 1181.7 | 1113.7 | 1042.6 | 978.9 | 920.4 | 872.2 | 835.1 | 797.7 | 767.6 | 744.3 |
| 20° | 1282.4 | 1211.4 | 1131.7 | 1057.3 | 984.9 | 917.8 | 863.5 | 817.1 | 775.7 | 743.4 | 716.3 |
| 22.5° | 1317.3 | 1231.2 | 1148.1 | 1067.2 | 984.5 | 910.9 | 847.6 | 799.4 | 753.8 | 722.3 | 693.1 |
| 25° | 1339.2 | 1239.8 | 1157.1 | 1063.7 | 973.8 | 898.8 | 830.0 | 775.7 | 731.0 | 693.9 | 664.2 |
| 27.5° | 1359.9 | 1238.5 | 1145.1 | 1044.4 | 960.8 | 886.4 | 812.3 | 754.2 | 707.3 | 667.2 | 636.7 |
| 30° | 1380.6 | 1240.7 | 1124.0 | 1024.5 | 940.2 | 862.7 | 791.2 | 732.7 | 682.7 | 641.8 | 613.4 |
| 32.5° | 1393.5 | 1239.4 | 1104.6 | 997.0 | 907.5 | 841.2 | 768.4 | 707.3 | 655.6 | 615.6 | 588.5 |
| 35° | 1396.9 | 1232.0 | 1081.8 | 957.0 | 871.7 | 805.0 | 744.3 | 681.5 | 627.6 | 590.2 | 559.2 |
| 37.5° | 1389.6 | 1218.7 | 1056.8 | 920.8 | 828.7 | 762.4 | 709.4 | 655.6 | 604.0 | 562.2 | 535.1 |
| 40° | 1365.9 | 1205.8 | 1026.7 | 882.1 | 783.9 | 720.6 | 677.1 | 624.6 | 573.8 | 534.7 | 509.7 |
| 42.5° | 1320.7 | 1179.5 | 993.6 | 839.0 | 737.4 | 674.1 | 635.0 | 593.2 | 545.9 | 509.7 | 484.7 |
| 45° | 1241.5 | 1139.1 | 960.4 | 796.0 | 691.8 | 626.4 | 591.1 | 559.2 | 515.7 | 480.0 | 458.5 |
| 47.5° | 1140.3 | 1084.4 | 912.6 | 750.8 | 644.0 | 580.7 | 543.7 | 517.4 | 483.4 | 454.6 | 433.5 |
| 50° | 1034.0 | 1013.8 | 864.0 | 704.3 | 596.2 | 534.7 | 499.4 | 476.1 | 453.3 | 424.5 | 405.5 |
| 52.5° | 911.3 | 932.0 | 807.2 | 656.1 | 547.6 | 487.3 | 454.6 | 437.4 | 417.1 | 394.8 | 378.8 |
| 55° | 797.7 | 842.9 | 740.0 | 601.0 | 499.4 | 441.7 | 410.2 | 393.9 | 381.8 | 364.2 | 350.0 |
| 57.5° | 687.5 | 745.2 | 670.3 | 545.4 | 452.0 | 401.6 | 370.6 | 352.1 | 344.4 | 334.5 | 322.9 |
| 60° | 591.5 | 648.3 | 594.5 | 489.5 | 404.2 | 356.9 | 330.2 | 315.1 | 307.4 | 300.9 | 291.4 |
| 62.5° | 505.8 | 563.5 | 520.5 | 432.6 | 357.3 | 314.3 | 291.9 | 277.2 | 271.6 | 269.1 | 261.3 |
| 65° | 428.8 | 478.3 | 448.1 | 373.2 | 313.0 | 274.2 | 253.1 | 242.8 | 237.2 | 235.9 | 230.7 |
| 67.5° | 362.0 | 400.3 | 377.1 | 320.7 | 271.6 | 236.3 | 217.8 | 208.8 | 204.0 | 203.6 | 199.3 |
| 70° | 296.6 | 331.9 | 315.1 | 265.2 | 224.3 | 198.0 | 182.5 | 174.8 | 172.2 | 171.8 | 169.6 |
| 72.5° | 245.8 | 267.8 | 255.3 | 215.7 | 186.4 | 163.2 | 152.8 | 144.6 | 141.6 | 142.5 | 141.2 |
| 75° | 189.4 | 207.9 | 200.2 | 171.3 | 145.9 | 130.4 | 121.0 | 115.8 | 113.2 | 114.5 | 112.8 |
| 77.5° | 144.6 | 157.6 | 149.8 | 127.9 | 111.5 | 99.9 | 92.6 | 89.1 | 86.5 | 86.5 | 85.7 |
| 80° | 102.9 | 109.8 | 105.9 | 93.8 | 80.9 | 71.5 | 65.9 | 63.7 | 62.4 | 62.0 | 61.6 |
| 82.5° | 65.9 | 71.5 | 66.7 | 59.4 | 51.7 | 46.9 | 44.3 | 41.3 | 40.5 | 40.9 | 40.5 |
| 85° | 37.0 | 39.2 | 37.5 | 32.3 | 28.8 | 26.3 | 24.5 | 23.2 | 22.4 | 22.8 | 22.0 |
| 87.5° | 15.9 | 16.4 | 15.1 | 13.3 | 12.5 | 11.2 | 11.2 | 10.3 | 9.5 | 9.5 | 9.0 |
| 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: P242483

CATALOG NUMBER: S123DRP-S775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 | 888.5 |
| 2.5° | 870.0 | 867.0 | 862.7 | 856.2 | 851.1 | 842.9 | 842.9 | 844.2 | 844.2 | 843.7 | 842.9 |
| 5° | 847.2 | 840.7 | 833.0 | 823.9 | 814.5 | 805.0 | 803.3 | 799.8 | 797.3 | 795.5 | 793.4 |
| 7.5° | 823.9 | 813.2 | 802.4 | 789.9 | 779.2 | 770.1 | 763.7 | 758.1 | 754.6 | 750.8 | 747.7 |
| 10° | 800.3 | 786.1 | 772.7 | 759.4 | 744.7 | 733.1 | 725.8 | 720.6 | 716.8 | 713.3 | 711.6 |
| 12.5° | 772.3 | 755.5 | 740.4 | 727.9 | 711.6 | 699.5 | 692.6 | 690.9 | 686.2 | 678.0 | 673.7 |
| 15° | 745.2 | 730.1 | 712.4 | 693.1 | 685.3 | 670.7 | 662.5 | 658.6 | 656.1 | 650.5 | 648.7 |
| 17.5° | 722.8 | 702.5 | 682.3 | 668.1 | 653.9 | 642.3 | 637.5 | 632.4 | 628.9 | 623.8 | 622.5 |
| 20° | 694.8 | 677.1 | 659.1 | 643.6 | 628.5 | 615.6 | 611.7 | 608.3 | 604.8 | 602.7 | 601.0 |
| 22.5° | 666.4 | 648.7 | 634.5 | 620.3 | 604.0 | 596.6 | 592.3 | 588.5 | 586.3 | 585.0 | 583.3 |
| 25° | 640.1 | 624.6 | 607.8 | 594.9 | 582.0 | 576.4 | 573.8 | 571.7 | 570.0 | 567.8 | 567.4 |
| 27.5° | 616.9 | 599.7 | 585.5 | 573.0 | 563.5 | 558.8 | 555.8 | 554.5 | 554.5 | 555.3 | 555.8 |
| 30° | 590.2 | 574.7 | 563.5 | 553.2 | 544.6 | 540.3 | 539.8 | 539.8 | 541.5 | 542.0 | 542.8 |
| 32.5° | 565.7 | 553.6 | 542.4 | 532.5 | 526.5 | 523.9 | 526.0 | 526.0 | 527.3 | 528.6 | 530.4 |
| 35° | 542.0 | 530.8 | 522.2 | 513.6 | 508.0 | 509.3 | 510.1 | 511.0 | 513.1 | 515.7 | 517.4 |
| 37.5° | 519.6 | 509.3 | 500.2 | 493.3 | 489.9 | 492.5 | 494.6 | 496.3 | 498.9 | 501.1 | 502.8 |
| 40° | 495.1 | 487.7 | 479.1 | 473.1 | 474.0 | 475.3 | 477.0 | 479.1 | 481.3 | 482.6 | 484.3 |
| 42.5° | 472.2 | 464.5 | 458.5 | 453.7 | 455.0 | 456.7 | 457.6 | 458.5 | 461.0 | 463.6 | 464.5 |
| 45° | 449.0 | 443.0 | 436.9 | 433.9 | 434.8 | 435.6 | 436.5 | 437.8 | 440.0 | 441.7 | 442.1 |
| 47.5° | 422.7 | 418.4 | 414.6 | 411.1 | 412.8 | 412.4 | 413.7 | 416.3 | 417.1 | 418.0 | 420.6 |
| 50° | 397.8 | 393.9 | 389.2 | 388.3 | 388.3 | 388.3 | 388.7 | 392.2 | 392.2 | 393.9 | 395.6 |
| 52.5° | 370.2 | 368.1 | 365.5 | 363.8 | 362.9 | 362.9 | 365.0 | 366.3 | 367.2 | 369.8 | 371.5 |
| 55° | 343.1 | 340.5 | 337.9 | 336.6 | 335.8 | 336.6 | 340.1 | 340.9 | 343.1 | 344.4 | 345.7 |
| 57.5° | 314.7 | 313.0 | 310.8 | 309.9 | 309.9 | 310.4 | 313.0 | 315.1 | 315.5 | 319.8 | 321.6 |
| 60° | 286.7 | 283.7 | 282.0 | 282.0 | 281.1 | 285.0 | 284.1 | 288.4 | 289.3 | 291.9 | 294.9 |
| 62.5° | 257.9 | 253.6 | 253.1 | 253.1 | 254.8 | 255.3 | 257.0 | 258.3 | 260.9 | 264.3 | 266.5 |
| 65° | 226.4 | 224.3 | 227.3 | 226.9 | 226.0 | 228.6 | 228.6 | 230.7 | 233.3 | 236.3 | 241.1 |
| 67.5° | 197.2 | 195.4 | 196.3 | 195.9 | 197.2 | 198.9 | 200.2 | 201.9 | 204.9 | 208.4 | 211.4 |
| 70° | 167.5 | 168.7 | 166.6 | 168.3 | 169.6 | 170.0 | 170.9 | 173.5 | 176.9 | 179.1 | 182.5 |
| 72.5° | 138.6 | 138.2 | 139.0 | 139.5 | 140.8 | 141.6 | 142.5 | 145.5 | 149.4 | 151.1 | 153.7 |
| 75° | 111.1 | 110.6 | 111.9 | 111.9 | 114.1 | 114.9 | 115.8 | 117.1 | 120.5 | 123.1 | 125.3 |
| 77.5° | 86.1 | 86.5 | 86.1 | 87.8 | 87.0 | 87.4 | 90.0 | 91.3 | 91.7 | 97.3 | 98.1 |
| 80° | 61.1 | 62.0 | 62.4 | 62.9 | 63.3 | 62.4 | 65.4 | 66.7 | 66.7 | 69.7 | 71.9 |
| 82.5° | 39.6 | 40.0 | 41.3 | 41.8 | 41.8 | 43.0 | 42.6 | 43.5 | 44.8 | 45.6 | 48.6 |
| 85° | 22.0 | 23.2 | 23.7 | 23.2 | 23.7 | 22.8 | 24.1 | 24.5 | 25.0 | 25.0 | 25.0 |
| 87.5° | 8.6 | 9.0 | 8.6 | 9.0 | 8.6 | 9.0 | 9.0 | 8.2 | 8.2 | 9.5 | 7.7 |
| 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: P242483

CATALOG NUMBER: S123DRP-S775D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 888.5 | 888.5 | 888.5 | 888.5 |
| 2.5° | 839.9 | 839.4 | 842.5 | 840.3 |
| 5° | 790.8 | 792.1 | 787.8 | 787.8 |
| 7.5° | 746.5 | 744.7 | 745.2 | 742.2 |
| 10° | 706.4 | 703.8 | 703.0 | 703.4 |
| 12.5° | 673.3 | 673.3 | 666.4 | 666.4 |
| 15° | 648.7 | 640.6 | 639.7 | 642.3 |
| 17.5° | 621.6 | 616.9 | 617.3 | 616.5 |
| 20° | 601.0 | 598.4 | 597.9 | 594.9 |
| 22.5° | 582.0 | 581.6 | 582.0 | 578.6 |
| 25° | 566.9 | 569.1 | 567.4 | 567.4 |
| 27.5° | 556.6 | 556.6 | 555.3 | 555.3 |
| 30° | 544.6 | 544.1 | 545.0 | 545.0 |
| 32.5° | 532.5 | 533.4 | 533.4 | 533.8 |
| 35° | 520.0 | 520.5 | 521.7 | 520.9 |
| 37.5° | 503.7 | 505.8 | 505.4 | 506.2 |
| 40° | 484.7 | 486.0 | 485.6 | 485.6 |
| 42.5° | 465.4 | 466.2 | 464.9 | 464.1 |
| 45° | 443.8 | 443.0 | 444.3 | 442.5 |
| 47.5° | 420.2 | 420.6 | 421.0 | 422.7 |
| 50° | 396.5 | 399.1 | 399.1 | 398.6 |
| 52.5° | 373.2 | 374.1 | 376.2 | 376.2 |
| 55° | 349.1 | 350.0 | 350.8 | 351.3 |
| 57.5° | 324.6 | 324.2 | 325.9 | 326.3 |
| 60° | 298.3 | 298.3 | 301.8 | 303.1 |
| 62.5° | 270.3 | 272.1 | 275.5 | 272.9 |
| 65° | 243.2 | 246.7 | 246.2 | 248.0 |
| 67.5° | 214.8 | 217.0 | 220.4 | 220.4 |
| 70° | 186.0 | 188.1 | 189.8 | 191.1 |
| 72.5° | 158.0 | 158.8 | 163.6 | 161.0 |
| 75° | 128.3 | 131.3 | 133.9 | 132.6 |
| 77.5° | 99.9 | 103.7 | 104.6 | 103.3 |
| 80° | 74.9 | 74.5 | 77.1 | 76.6 |
| 82.5° | 49.9 | 49.5 | 50.4 | 50.8 |
| 85° | 26.7 | 28.0 | 26.3 | 25.8 |
| 87.5° | 7.7 | 7.7 | 7.3 | 6.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P242483
 CATALOG NUMBER: S123DRP-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 | 18.64 | 20.20 | 19.01 | 20.51 | 20.83 | 19.20 | 20.75 | 19.56 | 21.06 | 21.38 |
| | 3H | 20.19 | 21.59 | 20.57 | 21.92 | 22.28 | 20.53 | 21.93 | 20.91 | 22.25 | 22.62 |
| | 4H | 20.75 | 22.07 | 21.15 | 22.42 | 22.79 | 20.99 | 22.30 | 21.39 | 22.65 | 23.03 |
| | 6H | 21.15 | 22.37 | 21.57 | 22.73 | 23.13 | 21.28 | 22.50 | 21.69 | 22.86 | 23.25 |
| | 8H | 21.27 | 22.42 | 21.69 | 22.81 | 23.21 | 21.36 | 22.51 | 21.78 | 22.90 | 23.30 |
| | 12H | 21.33 | 22.44 | 21.76 | 22.82 | 23.25 | 21.39 | 22.50 | 21.82 | 22.88 | 23.31 |
| 4H | 2H | 19.79 | 21.11 | 20.19 | 21.46 | 21.83 | 19.96 | 21.27 | 20.36 | 21.62 | 22.00 |
| | 3H | 21.39 | 22.48 | 21.80 | 22.88 | 23.28 | 21.76 | 22.86 | 22.17 | 23.26 | 23.66 |
| | 4H | 22.01 | 23.00 | 22.44 | 23.41 | 23.85 | 22.33 | 23.32 | 22.76 | 23.73 | 24.17 |
| | 6H | 22.48 | 23.34 | 22.94 | 23.78 | 24.24 | 22.69 | 23.55 | 23.15 | 23.99 | 24.45 |
| | 8H | 22.62 | 23.42 | 23.08 | 23.87 | 24.33 | 22.78 | 23.59 | 23.25 | 24.03 | 24.50 |
| | 12H | 22.71 | 23.43 | 23.20 | 23.91 | 24.38 | 22.84 | 23.55 | 23.32 | 24.03 | 24.50 |
| 8H | 4H | 22.49 | 23.30 | 22.96 | 23.74 | 24.21 | 22.63 | 23.44 | 23.10 | 23.88 | 24.35 |
| | 6H | 23.04 | 23.71 | 23.54 | 24.20 | 24.67 | 23.14 | 23.81 | 23.64 | 24.30 | 24.77 |
| | 8H | 23.23 | 23.83 | 23.74 | 24.33 | 24.82 | 23.29 | 23.89 | 23.80 | 24.39 | 24.88 |
| | 12H | 23.37 | 23.90 | 23.88 | 24.39 | 24.96 | 23.39 | 23.91 | 23.90 | 24.40 | 24.97 |
| 12H | 4H | 22.55 | 23.26 | 23.03 | 23.74 | 24.21 | 22.65 | 23.36 | 23.13 | 23.84 | 24.31 |
| | 6H | 23.12 | 23.72 | 23.63 | 24.22 | 24.71 | 23.18 | 23.77 | 23.69 | 24.28 | 24.77 |
| | 8H | 23.36 | 23.88 | 23.87 | 24.37 | 24.94 | 23.38 | 23.91 | 23.89 | 24.40 | 24.96 |