

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: P243333

Luminaire Tested: S123DRP-H775D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-59)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DRP-H775D840-X4F0-XX-UDD-A-W
Description: DEFINE 3 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

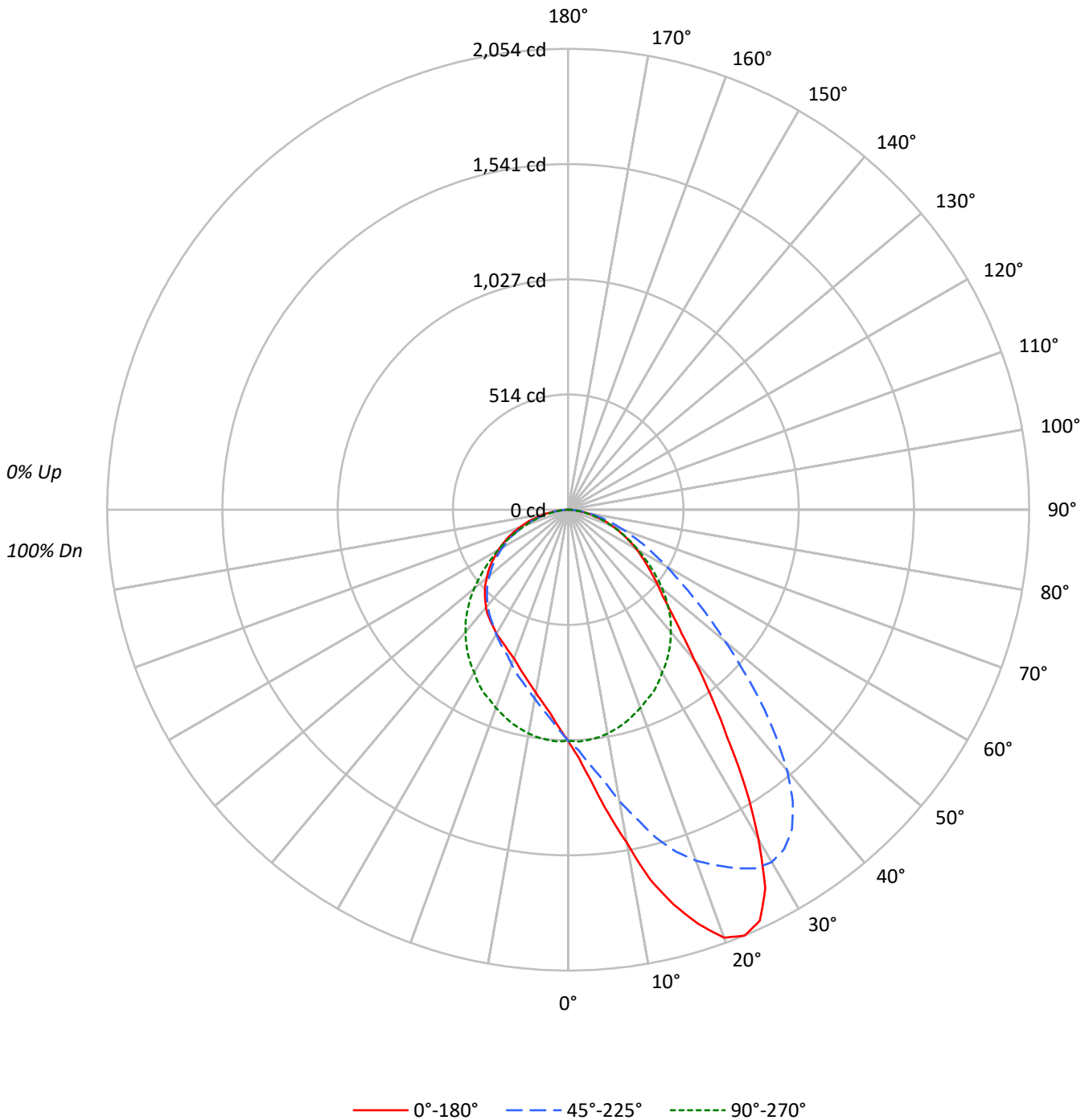
Lumens per Lamp: N/A
Luminaire Lumens: 3102.9 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.21 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

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: P243333

CATALOG NUMBER: S123DRP-H775D840-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P243333

CATALOG NUMBER: S123DRP-H775D840-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 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 69 | 65 | 72 | 68 | 64 | 62 | | | | | 62 | | | |
| 4 | 84 | 73 | 64 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 55 | 53 | | | | | 53 | | | |
| 5 | 78 | 65 | 57 | 50 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 46 | | | | | 46 | | | |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 41 | | | | | 41 | | | |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 36 | | | | | 36 | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 48 | 41 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 33 | | | | | 33 | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 | | | | | 29 | | | |
| 10 | 55 | 42 | 34 | 29 | 53 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 38 | 33 | 28 | 27 | | | | | 27 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 12480 | 12480 | 12480 | 12480 | 12480 |
| 5° | 14867 | 13904 | 12539 | 11340 | 11082 |
| 10° | 18567 | 16241 | 12463 | 10531 | 10189 |
| 15° | 22882 | 19001 | 12328 | 9932 | 9560 |
| 20° | 26184 | 21472 | 12132 | 9480 | 9096 |
| 25° | 27023 | 23587 | 11998 | 9148 | 8927 |
| 30° | 23739 | 25389 | 11712 | 8966 | 8934 |
| 35° | 18220 | 25719 | 11537 | 8852 | 8943 |
| 40° | 13859 | 24004 | 11257 | 8825 | 9011 |
| 45° | 11151 | 20817 | 10894 | 8777 | 9003 |
| 50° | 9813 | 17219 | 10311 | 8623 | 8925 |
| 55° | 9045 | 14406 | 9554 | 8487 | 8867 |
| 60° | 8526 | 12296 | 8742 | 8206 | 8686 |
| 65° | 7922 | 10681 | 7991 | 7882 | 8518 |
| 70° | 7251 | 9307 | 7166 | 7251 | 8151 |
| 75° | 6449 | 7948 | 6247 | 6491 | 7596 |
| 80° | 5396 | 6548 | 5165 | 5563 | 6645 |
| 85° | 3797 | 4854 | 3741 | 4200 | 4979 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 55°
 Vertical Angle: 45°
 Luminance: 23370 cd/sqm



TEST NUMBER: P243333

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.3 | 3.3 |
| 10°-20° | 325.2 | 10.5 |
| 20°-30° | 537.1 | 17.3 |
| 30°-40° | 614.8 | 19.8 |
| 40°-50° | 557.1 | 18.0 |
| 50°-60° | 450.1 | 14.5 |
| 60°-70° | 313.6 | 10.1 |
| 70°-80° | 164.5 | 5.3 |
| 80°-90° | 39.2 | 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° | 963.6 | 31.1 |
| 0°-40° | 1578.4 | 50.9 |
| 0°-60° | 2585.6 | 83.3 |
| 0°-90° | 3102.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3102.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1030 | 1030 | 1030 | 1030 | 1030 | |
| 5° | 1222 | 1143 | 1030 | 932 | 911 | 126 |
| 15° | 1823 | 1514 | 982 | 792 | 762 | 519 |
| 25° | 2020 | 1764 | 897 | 684 | 668 | 903 |
| 35° | 1231 | 1738 | 780 | 598 | 604 | 780 |
| 45° | 650 | 1214 | 636 | 512 | 525 | 513 |
| 55° | 428 | 682 | 452 | 402 | 420 | 385 |
| 65° | 276 | 372 | 279 | 275 | 297 | 274 |
| 75° | 138 | 170 | 133 | 139 | 162 | 147 |
| 85° | 27 | 35 | 27 | 30 | 36 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243333

CATALOG NUMBER: S123DRP-H775D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 |
| 2.5° | 1108.8 | 1111.1 | 1107.3 | 1109.7 | 1104.0 | 1100.7 | 1095.6 | 1093.2 | 1081.9 | 1073.9 | 1071.0 |
| 5° | 1221.9 | 1221.9 | 1222.8 | 1217.2 | 1210.6 | 1198.8 | 1183.2 | 1173.3 | 1162.0 | 1142.7 | 1132.8 |
| 7.5° | 1364.3 | 1357.2 | 1352.5 | 1342.1 | 1333.2 | 1313.8 | 1296.9 | 1276.6 | 1250.2 | 1218.1 | 1201.2 |
| 10° | 1508.5 | 1516.1 | 1511.3 | 1500.5 | 1477.4 | 1445.8 | 1420.8 | 1391.6 | 1350.6 | 1319.5 | 1275.2 |
| 12.5° | 1688.6 | 1678.7 | 1671.2 | 1654.7 | 1629.2 | 1595.7 | 1557.1 | 1513.7 | 1460.9 | 1409.5 | 1360.0 |
| 15° | 1823.4 | 1824.8 | 1824.4 | 1802.7 | 1777.7 | 1732.4 | 1696.6 | 1624.5 | 1557.5 | 1514.2 | 1432.1 |
| 17.5° | 1937.5 | 1943.6 | 1936.6 | 1904.0 | 1881.9 | 1855.0 | 1809.3 | 1729.1 | 1668.3 | 1598.1 | 1507.6 |
| 20° | 2029.9 | 2030.8 | 2019.5 | 1995.5 | 1970.0 | 1939.9 | 1879.5 | 1818.2 | 1758.8 | 1664.6 | 1578.3 |
| 22.5° | 2054.4 | 2056.8 | 2054.4 | 2044.0 | 2023.3 | 1991.2 | 1946.0 | 1889.4 | 1814.5 | 1714.1 | 1633.9 |
| 25° | 2020.5 | 2019.1 | 2027.1 | 2020.9 | 2020.0 | 2009.6 | 1979.9 | 1934.2 | 1860.2 | 1763.6 | 1661.7 |
| 27.5° | 1901.7 | 1891.8 | 1912.0 | 1938.4 | 1942.2 | 1958.7 | 1959.2 | 1938.0 | 1884.7 | 1802.2 | 1691.4 |
| 30° | 1696.1 | 1705.6 | 1715.5 | 1770.6 | 1801.3 | 1844.2 | 1881.4 | 1895.1 | 1874.8 | 1814.0 | 1710.3 |
| 32.5° | 1472.7 | 1502.9 | 1530.7 | 1568.9 | 1613.6 | 1686.2 | 1745.2 | 1797.0 | 1819.2 | 1792.3 | 1710.3 |
| 35° | 1231.3 | 1247.4 | 1291.2 | 1339.8 | 1404.3 | 1460.9 | 1577.8 | 1653.2 | 1720.7 | 1738.1 | 1688.6 |
| 37.5° | 1042.8 | 1057.4 | 1072.5 | 1110.2 | 1182.8 | 1277.1 | 1373.7 | 1472.7 | 1572.6 | 1644.3 | 1641.5 |
| 40° | 875.9 | 879.2 | 892.4 | 924.9 | 985.3 | 1069.2 | 1170.5 | 1289.8 | 1419.4 | 1517.0 | 1558.0 |
| 42.5° | 747.7 | 747.7 | 764.2 | 801.9 | 836.8 | 898.0 | 996.1 | 1101.2 | 1243.1 | 1368.5 | 1456.2 |
| 45° | 650.5 | 651.5 | 664.7 | 691.6 | 718.9 | 767.0 | 839.6 | 938.6 | 1084.7 | 1214.4 | 1336.5 |
| 47.5° | 571.4 | 580.3 | 587.9 | 602.0 | 629.3 | 671.8 | 724.6 | 808.9 | 913.1 | 1054.5 | 1196.9 |
| 50° | 520.4 | 522.3 | 528.0 | 536.5 | 557.7 | 585.5 | 631.2 | 695.3 | 787.7 | 913.1 | 1056.9 |
| 52.5° | 470.5 | 470.5 | 476.1 | 486.5 | 498.8 | 521.4 | 554.4 | 607.7 | 676.9 | 790.6 | 919.7 |
| 55° | 428.0 | 429.5 | 430.4 | 438.9 | 449.3 | 466.2 | 492.2 | 527.0 | 590.7 | 681.7 | 794.3 |
| 57.5° | 386.6 | 391.7 | 390.3 | 396.9 | 404.5 | 416.7 | 435.1 | 465.3 | 513.8 | 583.1 | 684.5 |
| 60° | 351.7 | 350.7 | 353.1 | 355.9 | 361.1 | 369.6 | 386.6 | 408.7 | 449.3 | 507.2 | 590.2 |
| 62.5° | 312.1 | 311.1 | 314.0 | 317.3 | 322.0 | 329.0 | 341.3 | 358.3 | 390.3 | 433.7 | 505.8 |
| 65° | 276.2 | 275.3 | 276.7 | 278.6 | 283.8 | 289.4 | 298.9 | 313.0 | 334.2 | 372.4 | 427.6 |
| 67.5° | 240.4 | 240.4 | 241.4 | 243.2 | 246.5 | 250.8 | 258.3 | 266.8 | 288.0 | 313.5 | 356.9 |
| 70° | 204.6 | 205.1 | 205.1 | 206.9 | 209.8 | 213.1 | 219.2 | 226.7 | 239.9 | 262.6 | 297.5 |
| 72.5° | 173.5 | 173.5 | 172.5 | 173.5 | 175.4 | 176.8 | 180.6 | 187.6 | 197.5 | 214.0 | 240.4 |
| 75° | 137.7 | 140.0 | 139.5 | 139.1 | 140.5 | 142.8 | 146.1 | 151.8 | 157.9 | 169.7 | 189.5 |
| 77.5° | 105.6 | 107.0 | 107.0 | 107.5 | 108.9 | 110.8 | 111.7 | 117.4 | 123.0 | 130.1 | 144.7 |
| 80° | 77.3 | 78.3 | 77.3 | 77.8 | 78.7 | 80.6 | 82.5 | 83.4 | 87.7 | 93.8 | 100.9 |
| 82.5° | 51.9 | 50.4 | 52.3 | 51.9 | 52.8 | 53.3 | 54.2 | 54.7 | 57.5 | 61.3 | 66.0 |
| 85° | 27.3 | 29.7 | 29.2 | 30.2 | 29.2 | 29.7 | 30.2 | 32.1 | 32.5 | 34.9 | 37.7 |
| 87.5° | 10.4 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 12.3 | 12.7 | 13.7 | 14.1 | 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: P243333

CATALOG NUMBER: S123DRP-H775D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 |
| 2.5° | 1072.9 | 1068.7 | 1062.6 | 1056.0 | 1048.9 | 1041.8 | 1038.5 | 1034.3 | 1025.8 | 1017.3 | 1010.7 |
| 5° | 1124.8 | 1113.0 | 1097.0 | 1085.2 | 1068.2 | 1052.2 | 1039.5 | 1030.5 | 1016.8 | 1000.3 | 989.5 |
| 7.5° | 1182.8 | 1161.6 | 1136.1 | 1110.2 | 1084.7 | 1060.7 | 1040.9 | 1023.9 | 1002.7 | 982.4 | 965.9 |
| 10° | 1251.1 | 1210.1 | 1174.8 | 1137.0 | 1099.3 | 1065.4 | 1037.1 | 1012.6 | 985.3 | 960.7 | 940.5 |
| 12.5° | 1311.5 | 1263.9 | 1214.8 | 1161.6 | 1110.6 | 1066.8 | 1030.5 | 998.5 | 965.5 | 937.2 | 916.4 |
| 15° | 1377.9 | 1311.0 | 1243.1 | 1182.8 | 1121.0 | 1067.3 | 1019.7 | 982.4 | 944.7 | 912.7 | 888.6 |
| 17.5° | 1454.3 | 1364.7 | 1279.4 | 1192.7 | 1138.0 | 1068.7 | 1010.2 | 961.2 | 922.6 | 890.5 | 859.4 |
| 20° | 1499.6 | 1410.5 | 1305.8 | 1216.7 | 1126.2 | 1055.0 | 990.0 | 940.5 | 895.2 | 858.4 | 833.0 |
| 22.5° | 1524.1 | 1430.3 | 1320.9 | 1229.4 | 1123.8 | 1044.2 | 974.9 | 916.4 | 867.9 | 831.1 | 802.3 |
| 25° | 1558.5 | 1430.3 | 1328.9 | 1219.1 | 1127.6 | 1031.4 | 953.2 | 897.1 | 846.2 | 803.8 | 773.6 |
| 27.5° | 1574.0 | 1443.0 | 1329.9 | 1199.3 | 1105.0 | 1007.4 | 928.2 | 868.8 | 812.2 | 770.8 | 744.8 |
| 30° | 1586.8 | 1445.3 | 1311.0 | 1183.7 | 1078.6 | 980.5 | 903.2 | 836.8 | 784.0 | 744.4 | 717.0 |
| 32.5° | 1587.7 | 1439.2 | 1285.5 | 1154.5 | 1043.2 | 949.0 | 873.5 | 810.8 | 755.7 | 713.7 | 686.8 |
| 35° | 1579.2 | 1424.1 | 1256.3 | 1109.7 | 1002.2 | 916.4 | 841.0 | 779.7 | 723.6 | 683.5 | 656.2 |
| 37.5° | 1557.5 | 1407.2 | 1229.0 | 1067.7 | 953.7 | 870.2 | 806.1 | 747.7 | 692.0 | 652.0 | 629.3 |
| 40° | 1511.3 | 1379.8 | 1193.1 | 1023.0 | 904.6 | 821.2 | 765.1 | 711.4 | 661.9 | 620.4 | 597.8 |
| 42.5° | 1450.1 | 1338.8 | 1149.8 | 975.4 | 850.0 | 769.3 | 719.8 | 676.5 | 626.0 | 590.2 | 567.1 |
| 45° | 1363.3 | 1283.2 | 1106.4 | 925.4 | 795.7 | 716.5 | 671.3 | 635.5 | 592.1 | 556.3 | 536.0 |
| 47.5° | 1265.3 | 1216.2 | 1050.3 | 869.3 | 738.7 | 664.2 | 621.3 | 592.6 | 555.8 | 525.2 | 504.9 |
| 50° | 1155.0 | 1136.6 | 988.6 | 812.7 | 685.4 | 609.1 | 569.5 | 546.8 | 515.7 | 491.2 | 473.8 |
| 52.5° | 1035.2 | 1046.5 | 923.5 | 755.2 | 634.0 | 556.7 | 519.0 | 498.3 | 478.5 | 457.7 | 441.2 |
| 55° | 913.6 | 940.5 | 844.8 | 692.5 | 575.1 | 507.7 | 470.9 | 452.1 | 437.5 | 420.0 | 408.2 |
| 57.5° | 799.5 | 841.5 | 763.2 | 625.6 | 520.9 | 456.3 | 421.4 | 404.9 | 394.1 | 384.7 | 373.8 |
| 60° | 688.7 | 737.3 | 679.3 | 562.9 | 466.7 | 407.8 | 376.7 | 360.6 | 355.4 | 348.4 | 338.0 |
| 62.5° | 590.7 | 640.2 | 596.8 | 498.3 | 412.0 | 361.6 | 333.3 | 320.1 | 312.5 | 310.2 | 304.1 |
| 65° | 498.8 | 545.0 | 512.0 | 430.9 | 360.2 | 315.4 | 290.4 | 278.6 | 274.4 | 273.9 | 269.2 |
| 67.5° | 419.1 | 463.9 | 433.7 | 365.3 | 305.5 | 269.2 | 250.3 | 240.9 | 236.6 | 237.1 | 233.8 |
| 70° | 345.5 | 377.1 | 359.2 | 305.5 | 259.3 | 227.2 | 212.6 | 202.2 | 198.9 | 198.9 | 198.0 |
| 72.5° | 277.2 | 302.2 | 288.5 | 247.5 | 211.2 | 186.7 | 174.0 | 167.8 | 165.0 | 164.5 | 165.0 |
| 75° | 216.8 | 238.5 | 226.3 | 194.2 | 166.9 | 148.5 | 137.7 | 133.4 | 132.0 | 131.1 | 131.5 |
| 77.5° | 162.2 | 175.8 | 168.3 | 147.6 | 124.9 | 112.2 | 107.0 | 102.8 | 101.4 | 101.8 | 102.8 |
| 80° | 114.6 | 122.1 | 117.9 | 104.7 | 89.6 | 81.1 | 77.3 | 74.0 | 72.6 | 74.0 | 74.0 |
| 82.5° | 72.6 | 78.3 | 74.5 | 66.0 | 58.5 | 52.8 | 49.0 | 48.1 | 47.6 | 46.7 | 48.1 |
| 85° | 39.6 | 42.4 | 40.5 | 37.7 | 32.5 | 30.2 | 27.3 | 26.9 | 26.9 | 26.9 | 26.9 |
| 87.5° | 15.6 | 17.4 | 15.1 | 15.1 | 14.1 | 11.8 | 11.8 | 11.3 | 10.8 | 11.3 | 11.3 |
| 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: P243333

CATALOG NUMBER: S123DRP-H775D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 |
| 2.5° | 1007.9 | 1001.8 | 998.0 | 992.8 | 986.7 | 978.7 | 975.4 | 978.7 | 976.8 | 973.5 | 974.9 |
| 5° | 980.1 | 972.1 | 961.7 | 953.2 | 943.8 | 932.0 | 928.2 | 926.3 | 923.5 | 922.1 | 919.7 |
| 7.5° | 952.7 | 940.9 | 928.2 | 916.4 | 902.8 | 892.4 | 887.7 | 884.4 | 883.4 | 876.4 | 873.5 |
| 10° | 924.4 | 909.8 | 897.1 | 881.1 | 869.3 | 855.6 | 850.0 | 846.2 | 841.9 | 837.2 | 833.9 |
| 12.5° | 894.7 | 880.1 | 864.1 | 849.0 | 837.2 | 822.1 | 814.6 | 810.4 | 807.1 | 803.8 | 800.0 |
| 15° | 868.8 | 854.2 | 832.0 | 820.7 | 806.6 | 791.5 | 786.8 | 777.4 | 778.3 | 772.6 | 768.9 |
| 17.5° | 841.5 | 819.8 | 804.2 | 787.3 | 776.9 | 766.0 | 757.1 | 747.2 | 745.8 | 741.5 | 740.1 |
| 20° | 810.8 | 788.2 | 777.4 | 759.9 | 745.8 | 734.9 | 726.9 | 726.0 | 723.1 | 717.0 | 714.7 |
| 22.5° | 780.7 | 762.3 | 747.2 | 731.2 | 718.4 | 704.3 | 700.5 | 701.9 | 696.7 | 695.3 | 690.1 |
| 25° | 753.3 | 737.3 | 718.4 | 703.3 | 693.0 | 684.0 | 678.8 | 676.9 | 675.1 | 673.6 | 671.3 |
| 27.5° | 724.1 | 707.1 | 691.1 | 678.8 | 668.9 | 662.8 | 659.5 | 655.3 | 654.8 | 654.8 | 653.8 |
| 30° | 694.9 | 679.8 | 668.9 | 653.4 | 644.4 | 640.6 | 637.8 | 636.4 | 637.8 | 637.8 | 638.3 |
| 32.5° | 668.0 | 653.4 | 640.6 | 629.8 | 620.8 | 618.0 | 617.5 | 617.5 | 619.4 | 619.4 | 620.8 |
| 35° | 640.2 | 625.6 | 613.8 | 606.2 | 598.7 | 598.2 | 598.7 | 599.6 | 602.0 | 602.5 | 604.4 |
| 37.5° | 610.0 | 598.7 | 589.7 | 580.3 | 578.4 | 579.4 | 580.3 | 581.3 | 582.2 | 586.0 | 586.0 |
| 40° | 582.2 | 573.7 | 564.8 | 558.6 | 555.3 | 557.7 | 559.1 | 559.6 | 562.4 | 564.8 | 566.6 |
| 42.5° | 554.9 | 546.8 | 539.8 | 534.6 | 533.2 | 535.1 | 536.5 | 537.9 | 540.7 | 542.6 | 545.9 |
| 45° | 524.2 | 519.0 | 512.9 | 508.7 | 509.1 | 512.0 | 512.0 | 516.7 | 518.6 | 519.5 | 521.9 |
| 47.5° | 495.9 | 490.3 | 486.0 | 484.1 | 483.7 | 486.0 | 487.4 | 491.2 | 492.2 | 495.5 | 497.3 |
| 50° | 465.8 | 461.5 | 458.2 | 455.9 | 456.3 | 457.3 | 460.6 | 464.3 | 465.3 | 469.1 | 472.4 |
| 52.5° | 434.2 | 430.4 | 427.6 | 428.5 | 429.9 | 429.9 | 433.2 | 435.6 | 437.9 | 440.8 | 444.1 |
| 55° | 403.1 | 397.9 | 398.3 | 396.9 | 398.3 | 401.6 | 403.1 | 406.8 | 408.7 | 410.1 | 414.8 |
| 57.5° | 369.1 | 368.2 | 366.8 | 365.3 | 368.2 | 369.6 | 371.9 | 374.3 | 377.6 | 379.5 | 382.8 |
| 60° | 334.2 | 332.8 | 332.8 | 334.7 | 335.6 | 338.5 | 342.2 | 343.7 | 344.6 | 348.4 | 352.6 |
| 62.5° | 302.2 | 300.8 | 300.3 | 303.1 | 303.1 | 305.9 | 307.4 | 309.7 | 313.5 | 314.9 | 320.6 |
| 65° | 267.8 | 266.8 | 266.8 | 269.2 | 269.6 | 274.8 | 274.8 | 274.8 | 277.2 | 282.4 | 285.2 |
| 67.5° | 231.9 | 232.4 | 233.8 | 235.2 | 237.1 | 238.5 | 239.0 | 241.8 | 245.6 | 248.9 | 254.6 |
| 70° | 196.1 | 198.5 | 201.3 | 200.8 | 202.2 | 204.6 | 205.1 | 207.9 | 211.2 | 215.4 | 222.0 |
| 72.5° | 164.1 | 165.5 | 168.3 | 168.3 | 170.2 | 171.6 | 174.0 | 175.8 | 180.1 | 183.9 | 186.7 |
| 75° | 132.0 | 132.5 | 134.8 | 136.2 | 137.7 | 138.6 | 141.0 | 144.3 | 146.6 | 149.9 | 154.2 |
| 77.5° | 103.7 | 102.8 | 104.7 | 105.1 | 106.1 | 108.0 | 109.8 | 113.1 | 115.0 | 118.8 | 120.2 |
| 80° | 73.5 | 75.4 | 75.9 | 76.4 | 77.3 | 79.7 | 81.1 | 82.5 | 84.4 | 87.7 | 89.1 |
| 82.5° | 48.6 | 49.5 | 50.9 | 51.4 | 52.3 | 52.8 | 53.3 | 55.6 | 57.0 | 58.0 | 62.7 |
| 85° | 28.3 | 29.7 | 28.8 | 28.8 | 29.7 | 30.2 | 32.1 | 32.1 | 33.9 | 33.0 | 35.4 |
| 87.5° | 12.3 | 11.8 | 11.8 | 12.3 | 11.8 | 11.3 | 12.7 | 12.7 | 12.3 | 12.7 | 12.7 |
| 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: P243333

CATALOG NUMBER: S123DRP-H775D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1029.6 | 1029.6 | 1029.6 | 1029.6 |
| 2.5° | 972.5 | 972.5 | 968.8 | 970.2 |
| 5° | 915.0 | 916.9 | 912.2 | 910.8 |
| 7.5° | 872.6 | 870.7 | 867.4 | 867.4 |
| 10° | 831.1 | 829.2 | 827.8 | 827.8 |
| 12.5° | 795.3 | 793.4 | 790.6 | 792.9 |
| 15° | 763.2 | 763.7 | 761.8 | 761.8 |
| 17.5° | 738.7 | 734.5 | 733.0 | 732.6 |
| 20° | 709.5 | 710.4 | 708.5 | 705.2 |
| 22.5° | 691.1 | 688.7 | 686.8 | 686.4 |
| 25° | 672.2 | 669.9 | 669.4 | 667.5 |
| 27.5° | 653.4 | 653.8 | 652.4 | 652.4 |
| 30° | 637.8 | 639.2 | 637.8 | 638.3 |
| 32.5° | 622.3 | 622.3 | 622.3 | 620.4 |
| 35° | 605.3 | 605.8 | 605.3 | 604.4 |
| 37.5° | 587.9 | 587.9 | 588.3 | 589.3 |
| 40° | 568.5 | 568.5 | 569.5 | 569.5 |
| 42.5° | 545.4 | 547.8 | 549.2 | 546.8 |
| 45° | 524.7 | 525.2 | 525.6 | 525.2 |
| 47.5° | 501.6 | 500.2 | 500.6 | 501.6 |
| 50° | 472.8 | 476.1 | 476.1 | 473.3 |
| 52.5° | 445.0 | 446.0 | 447.8 | 447.8 |
| 55° | 417.7 | 418.1 | 418.6 | 419.6 |
| 57.5° | 386.6 | 387.0 | 387.0 | 386.6 |
| 60° | 355.4 | 358.3 | 357.8 | 358.3 |
| 62.5° | 322.0 | 326.2 | 327.6 | 327.2 |
| 65° | 290.4 | 291.3 | 293.7 | 297.0 |
| 67.5° | 256.9 | 259.3 | 263.0 | 262.1 |
| 70° | 223.9 | 227.2 | 228.2 | 230.0 |
| 72.5° | 190.9 | 195.2 | 196.1 | 197.1 |
| 75° | 158.9 | 160.8 | 162.6 | 162.2 |
| 77.5° | 124.0 | 126.8 | 130.1 | 128.2 |
| 80° | 92.9 | 93.3 | 96.2 | 95.2 |
| 82.5° | 61.3 | 65.1 | 65.1 | 63.2 |
| 85° | 35.8 | 35.8 | 35.8 | 35.8 |
| 87.5° | 12.3 | 11.8 | 12.7 | 12.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P243333
 CATALOG NUMBER: S123DRP-H775D840-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 | 19.17 | 20.73 | 19.53 | 21.04 | 21.36 | 19.70 | 21.26 | 20.06 | 21.57 | 21.89 |
| | 3H | 20.69 | 22.09 | 21.06 | 22.42 | 22.78 | 21.04 | 22.44 | 21.42 | 22.77 | 23.13 |
| | 4H | 21.23 | 22.55 | 21.63 | 22.90 | 23.28 | 21.49 | 22.81 | 21.89 | 23.16 | 23.54 |
| | 6H | 21.60 | 22.81 | 22.01 | 23.18 | 23.57 | 21.79 | 23.01 | 22.21 | 23.38 | 23.77 |
| | 8H | 21.69 | 22.85 | 22.12 | 23.24 | 23.64 | 21.87 | 23.03 | 22.30 | 23.42 | 23.82 |
| | 12H | 21.74 | 22.86 | 22.17 | 23.24 | 23.67 | 21.91 | 23.02 | 22.34 | 23.40 | 23.83 |
| 4H | 2H | 20.33 | 21.65 | 20.73 | 22.00 | 22.38 | 20.49 | 21.81 | 20.89 | 22.16 | 22.53 |
| | 3H | 21.89 | 22.99 | 22.30 | 23.38 | 23.79 | 22.28 | 23.38 | 22.69 | 23.78 | 24.18 |
| | 4H | 22.48 | 23.47 | 22.92 | 23.89 | 24.33 | 22.84 | 23.83 | 23.28 | 24.25 | 24.68 |
| | 6H | 22.91 | 23.77 | 23.37 | 24.21 | 24.67 | 23.21 | 24.07 | 23.67 | 24.51 | 24.97 |
| | 8H | 23.03 | 23.84 | 23.49 | 24.28 | 24.75 | 23.30 | 24.11 | 23.76 | 24.55 | 25.02 |
| | 12H | 23.11 | 23.83 | 23.59 | 24.30 | 24.77 | 23.36 | 24.08 | 23.84 | 24.55 | 25.02 |
| 8H | 4H | 22.95 | 23.75 | 23.41 | 24.20 | 24.66 | 23.15 | 23.95 | 23.61 | 24.40 | 24.86 |
| | 6H | 23.45 | 24.11 | 23.94 | 24.60 | 25.08 | 23.66 | 24.32 | 24.15 | 24.81 | 25.29 |
| | 8H | 23.61 | 24.21 | 24.12 | 24.72 | 25.20 | 23.80 | 24.40 | 24.32 | 24.91 | 25.40 |
| | 12H | 23.73 | 24.26 | 24.24 | 24.75 | 25.31 | 23.90 | 24.43 | 24.41 | 24.92 | 25.49 |
| 12H | 4H | 23.00 | 23.72 | 23.48 | 24.19 | 24.66 | 23.16 | 23.88 | 23.64 | 24.36 | 24.83 |
| | 6H | 23.52 | 24.12 | 24.03 | 24.62 | 25.11 | 23.69 | 24.29 | 24.20 | 24.80 | 25.28 |
| | 8H | 23.73 | 24.25 | 24.23 | 24.74 | 25.31 | 23.89 | 24.42 | 24.40 | 24.91 | 25.48 |