

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: P243779

Luminaire Tested: S125RDRP-H610D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-71)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H610D840-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

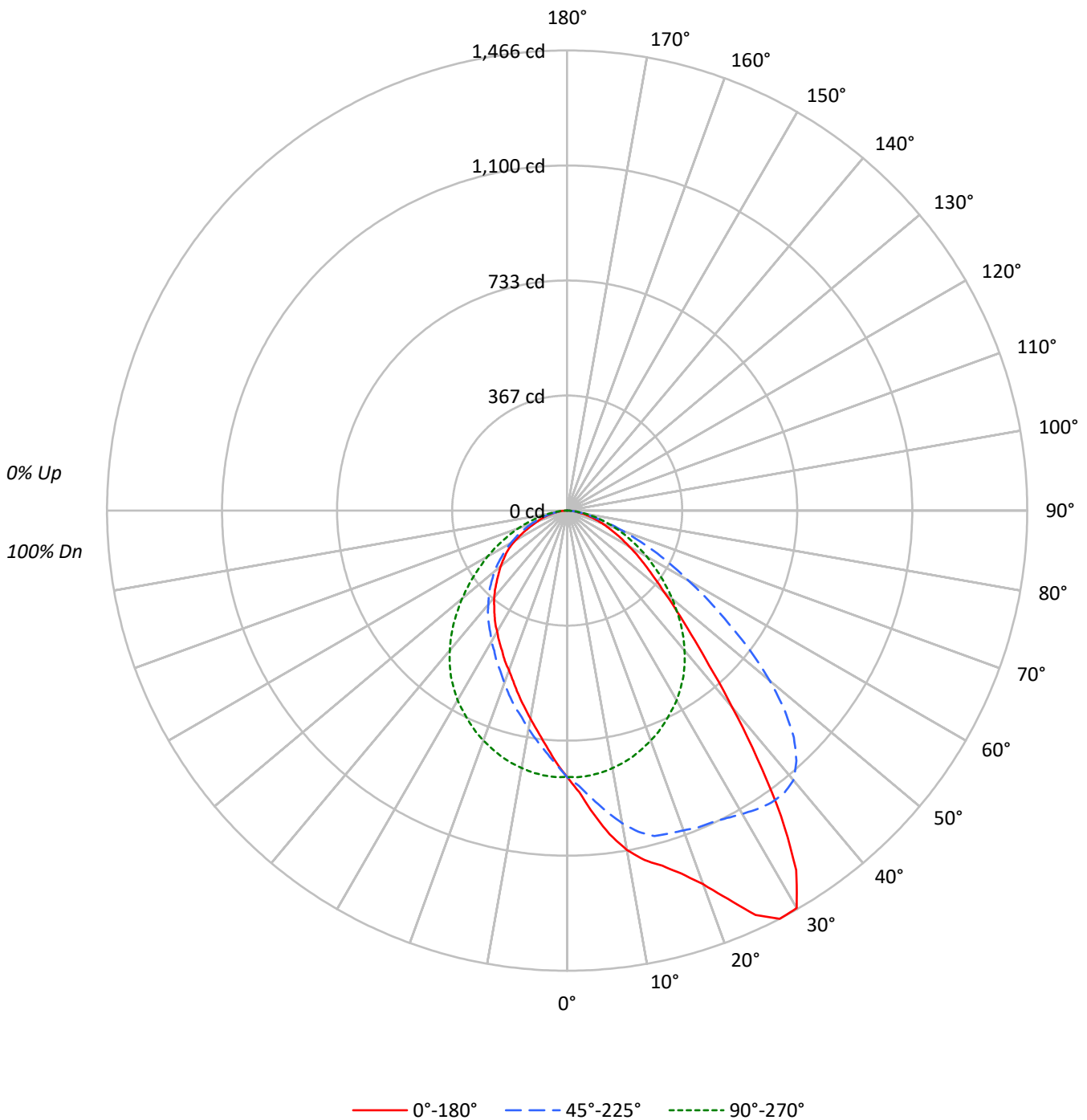
Lumens per Lamp: N/A
Luminaire Lumens: 2259.4 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 17.2
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: P243779

CATALOG NUMBER: S125RDRP-H610D840-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243779

CATALOG NUMBER: S125RDRP-H610D840-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 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | | | | | 86 | | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 75 | | | | | 73 | | | | |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | | | | | 63 | | | | |
| 4 | 85 | 74 | 65 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 56 | | | | | 54 | | | | |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 51 | 61 | 55 | 50 | 59 | 54 | 50 | | | | | 48 | | | | |
| 6 | 73 | 60 | 51 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 45 | 56 | 49 | 44 | 54 | 48 | 44 | | | | | 42 | | | | |
| 7 | 67 | 54 | 46 | 40 | 66 | 54 | 46 | 40 | 52 | 45 | 40 | 51 | 44 | 39 | 49 | 44 | 39 | | | | | 37 | | | | |
| 8 | 63 | 50 | 42 | 36 | 61 | 49 | 41 | 36 | 48 | 41 | 36 | 47 | 40 | 35 | 45 | 40 | 35 | | | | | 33 | | | | |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | | | | | 30 | | | | |
| 10 | 55 | 42 | 35 | 29 | 54 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | | | | | 27 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0° | 6033 | 6033 | 6033 | 6033 | 6033 |
| 5° | 6926 | 6580 | 6042 | 5509 | 5374 |
| 10° | 7924 | 7300 | 6012 | 5100 | 4858 |
| 15° | 8619 | 7899 | 5964 | 4748 | 4444 |
| 20° | 9578 | 8200 | 5896 | 4420 | 4094 |
| 25° | 11145 | 8590 | 5813 | 4166 | 3854 |
| 30° | 12001 | 9158 | 5727 | 3951 | 3658 |
| 35° | 10310 | 9851 | 5599 | 3779 | 3499 |
| 40° | 7596 | 10409 | 5397 | 3626 | 3354 |
| 45° | 5610 | 10268 | 5146 | 3492 | 3180 |
| 50° | 4444 | 9320 | 4839 | 3346 | 3052 |
| 55° | 3755 | 7779 | 4484 | 3141 | 2937 |
| 60° | 3235 | 6354 | 4154 | 2948 | 2718 |
| 65° | 2809 | 5129 | 3782 | 2706 | 2366 |
| 70° | 2462 | 3896 | 3462 | 2448 | 2070 |
| 75° | 2090 | 2837 | 3032 | 2164 | 1961 |
| 80° | 1625 | 2055 | 2534 | 1903 | 1625 |
| 85° | 1427 | 1509 | 2031 | 1623 | 1484 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10268 cd/sqm



TEST NUMBER: P243779

CATALOG NUMBER: S125RDRP-H610D840-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.7 | 3.6 |
| 10°-20° | 241.8 | 10.7 |
| 20°-30° | 385.6 | 17.1 |
| 30°-40° | 468.2 | 20.7 |
| 40°-50° | 421.9 | 18.7 |
| 50°-60° | 324.4 | 14.4 |
| 60°-70° | 210.5 | 9.3 |
| 70°-80° | 101.3 | 4.5 |
| 80°-90° | 24.0 | 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° | 709.1 | 31.4 |
| 0°-40° | 1177.3 | 52.1 |
| 0°-60° | 1923.6 | 85.1 |
| 0°-90° | 2259.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2259.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 849 | 849 | 849 | 849 | 849 | |
| 5° | 971 | 922 | 847 | 772 | 753 | 97 |
| 15° | 1171 | 1074 | 811 | 645 | 604 | 336 |
| 25° | 1421 | 1095 | 741 | 531 | 492 | 650 |
| 35° | 1188 | 1135 | 645 | 436 | 403 | 727 |
| 45° | 558 | 1022 | 512 | 347 | 316 | 443 |
| 55° | 303 | 628 | 362 | 254 | 237 | 275 |
| 65° | 167 | 305 | 225 | 161 | 141 | 167 |
| 75° | 76 | 103 | 110 | 79 | 71 | 82 |
| 85° | 18 | 18 | 25 | 20 | 18 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243779

CATALOG NUMBER: S125RDRP-H610D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 |
| 2.5° | 898.1 | 901.5 | 898.8 | 900.4 | 897.8 | 896.4 | 893.0 | 888.0 | 882.9 | 878.2 | 877.9 |
| 5° | 970.8 | 970.1 | 967.4 | 963.7 | 961.0 | 954.3 | 950.9 | 939.5 | 931.8 | 922.3 | 917.6 |
| 7.5° | 1040.1 | 1038.5 | 1034.4 | 1029.4 | 1027.0 | 1018.3 | 1008.8 | 994.4 | 982.2 | 967.4 | 956.3 |
| 10° | 1098.0 | 1097.7 | 1094.7 | 1091.3 | 1082.2 | 1072.5 | 1063.4 | 1048.2 | 1030.0 | 1011.5 | 996.0 |
| 12.5° | 1140.5 | 1138.8 | 1135.1 | 1129.3 | 1121.9 | 1115.2 | 1103.1 | 1089.3 | 1067.1 | 1048.2 | 1027.0 |
| 15° | 1171.4 | 1170.8 | 1165.4 | 1163.3 | 1148.9 | 1139.4 | 1123.3 | 1109.5 | 1092.3 | 1073.5 | 1050.6 |
| 17.5° | 1212.5 | 1213.8 | 1209.1 | 1197.7 | 1184.6 | 1170.1 | 1147.2 | 1124.6 | 1100.7 | 1078.9 | 1060.3 |
| 20° | 1266.4 | 1263.0 | 1254.9 | 1241.1 | 1217.5 | 1199.7 | 1176.8 | 1148.9 | 1116.6 | 1084.2 | 1057.6 |
| 22.5° | 1338.4 | 1334.7 | 1321.9 | 1305.1 | 1275.4 | 1242.8 | 1207.8 | 1166.0 | 1129.0 | 1092.0 | 1057.0 |
| 25° | 1421.2 | 1414.1 | 1395.3 | 1377.1 | 1335.0 | 1300.3 | 1248.2 | 1198.4 | 1144.5 | 1095.4 | 1056.0 |
| 27.5° | 1466.3 | 1466.3 | 1457.5 | 1437.7 | 1404.4 | 1353.2 | 1300.0 | 1233.7 | 1171.4 | 1104.1 | 1048.2 |
| 30° | 1462.3 | 1459.9 | 1463.3 | 1454.9 | 1433.3 | 1394.9 | 1342.1 | 1272.4 | 1193.0 | 1115.9 | 1048.9 |
| 32.5° | 1357.9 | 1358.9 | 1379.1 | 1392.9 | 1403.7 | 1394.3 | 1359.9 | 1297.0 | 1217.9 | 1127.3 | 1046.2 |
| 35° | 1188.3 | 1190.9 | 1226.6 | 1250.2 | 1298.3 | 1325.9 | 1334.0 | 1300.0 | 1229.0 | 1135.4 | 1041.5 |
| 37.5° | 994.4 | 994.4 | 1035.8 | 1071.5 | 1125.3 | 1193.3 | 1244.1 | 1256.9 | 1222.3 | 1135.1 | 1037.5 |
| 40° | 818.7 | 817.6 | 850.3 | 894.1 | 951.6 | 1026.7 | 1102.4 | 1167.4 | 1175.8 | 1121.9 | 1023.3 |
| 42.5° | 669.9 | 668.2 | 703.9 | 728.1 | 788.7 | 855.7 | 956.3 | 1048.2 | 1100.7 | 1081.2 | 1002.4 |
| 45° | 558.1 | 556.8 | 580.0 | 607.6 | 650.3 | 720.0 | 804.5 | 906.5 | 994.7 | 1021.6 | 963.4 |
| 47.5° | 474.0 | 474.6 | 487.1 | 510.3 | 546.7 | 596.5 | 672.2 | 766.8 | 875.9 | 938.2 | 914.3 |
| 50° | 401.9 | 404.3 | 413.7 | 431.2 | 457.8 | 497.9 | 562.8 | 648.3 | 760.4 | 842.9 | 847.9 |
| 52.5° | 348.1 | 351.4 | 361.5 | 371.0 | 393.2 | 421.4 | 471.9 | 546.0 | 638.6 | 737.5 | 772.9 |
| 55° | 303.0 | 304.6 | 310.4 | 320.5 | 337.0 | 360.5 | 397.2 | 453.8 | 539.6 | 627.8 | 690.1 |
| 57.5° | 265.3 | 265.3 | 269.0 | 276.0 | 289.2 | 310.4 | 334.9 | 381.7 | 454.1 | 533.9 | 600.2 |
| 60° | 227.6 | 228.9 | 231.6 | 239.3 | 248.1 | 264.2 | 288.1 | 317.8 | 380.4 | 447.0 | 518.4 |
| 62.5° | 195.9 | 198.3 | 201.0 | 204.7 | 212.7 | 224.2 | 241.0 | 268.3 | 310.4 | 372.0 | 435.6 |
| 65° | 167.0 | 169.3 | 169.7 | 174.0 | 179.4 | 188.8 | 201.6 | 221.5 | 256.5 | 305.0 | 357.5 |
| 67.5° | 141.4 | 142.4 | 143.4 | 146.8 | 151.8 | 157.9 | 166.3 | 181.1 | 208.7 | 241.4 | 292.5 |
| 70° | 118.5 | 119.2 | 119.5 | 123.2 | 125.6 | 130.9 | 135.3 | 144.7 | 162.2 | 187.5 | 227.2 |
| 72.5° | 96.9 | 95.9 | 95.6 | 98.6 | 99.6 | 104.0 | 109.4 | 116.1 | 125.6 | 143.4 | 173.0 |
| 75° | 76.1 | 76.4 | 76.7 | 78.4 | 78.8 | 80.8 | 84.2 | 88.5 | 92.9 | 103.3 | 122.2 |
| 77.5° | 58.6 | 57.2 | 57.2 | 59.2 | 59.9 | 60.3 | 62.6 | 65.0 | 67.3 | 73.4 | 80.8 |
| 80° | 39.7 | 40.4 | 40.4 | 40.4 | 40.7 | 41.4 | 42.8 | 44.8 | 46.5 | 50.2 | 51.5 |
| 82.5° | 28.3 | 28.3 | 27.9 | 28.6 | 28.9 | 29.3 | 29.3 | 29.3 | 30.3 | 31.3 | 32.7 |
| 85° | 17.5 | 17.8 | 16.8 | 17.5 | 17.8 | 17.8 | 17.8 | 17.8 | 18.9 | 18.5 | 18.9 |
| 87.5° | 7.4 | 7.7 | 7.7 | 8.1 | 8.1 | 8.4 | 8.1 | 8.4 | 8.1 | 8.1 | 8.4 |
| 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: P243779

CATALOG NUMBER: S125RDRP-H610D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 |
| 2.5° | 876.9 | 872.8 | 870.8 | 866.8 | 861.4 | 858.0 | 854.7 | 850.0 | 846.3 | 840.5 | 835.5 |
| 5° | 909.2 | 901.1 | 893.7 | 883.6 | 873.9 | 865.4 | 856.7 | 846.9 | 838.2 | 828.4 | 818.0 |
| 7.5° | 945.2 | 932.4 | 916.9 | 899.1 | 884.0 | 870.8 | 856.0 | 841.5 | 828.4 | 812.9 | 798.8 |
| 10° | 979.9 | 959.4 | 938.8 | 914.9 | 892.7 | 873.2 | 853.3 | 833.1 | 816.0 | 796.8 | 779.3 |
| 12.5° | 1006.8 | 987.3 | 956.7 | 927.0 | 898.1 | 872.8 | 847.9 | 823.4 | 800.8 | 779.6 | 758.7 |
| 15° | 1030.4 | 998.1 | 972.1 | 939.8 | 904.5 | 870.2 | 839.2 | 810.6 | 783.3 | 758.4 | 737.2 |
| 17.5° | 1037.1 | 1008.2 | 979.9 | 942.2 | 904.2 | 865.1 | 829.4 | 795.4 | 765.1 | 737.5 | 713.6 |
| 20° | 1036.4 | 1007.2 | 976.5 | 940.5 | 900.1 | 857.4 | 817.6 | 779.6 | 745.3 | 713.6 | 688.0 |
| 22.5° | 1026.3 | 998.1 | 967.1 | 930.7 | 889.7 | 845.6 | 803.8 | 761.8 | 724.4 | 691.4 | 665.2 |
| 25° | 1015.6 | 979.9 | 947.6 | 910.9 | 871.8 | 831.1 | 786.7 | 741.2 | 702.2 | 667.8 | 638.2 |
| 27.5° | 1006.1 | 963.4 | 923.7 | 887.7 | 847.6 | 810.9 | 766.8 | 719.3 | 679.3 | 643.3 | 612.6 |
| 30° | 991.0 | 945.9 | 897.8 | 858.4 | 819.7 | 781.3 | 740.9 | 697.8 | 654.0 | 617.4 | 586.7 |
| 32.5° | 977.9 | 921.0 | 868.8 | 824.4 | 785.7 | 752.0 | 713.3 | 671.9 | 629.1 | 594.1 | 561.1 |
| 35° | 963.4 | 895.4 | 840.9 | 788.7 | 750.0 | 713.3 | 682.7 | 645.3 | 602.9 | 565.9 | 536.2 |
| 37.5° | 946.2 | 869.1 | 806.5 | 753.3 | 713.3 | 675.6 | 648.0 | 614.7 | 576.3 | 539.6 | 510.3 |
| 40° | 927.0 | 842.2 | 770.2 | 715.3 | 672.2 | 634.5 | 611.3 | 581.7 | 549.0 | 512.7 | 485.4 |
| 42.5° | 902.8 | 813.6 | 737.2 | 677.3 | 629.5 | 595.5 | 572.2 | 547.7 | 517.7 | 486.1 | 456.5 |
| 45° | 872.2 | 777.9 | 697.8 | 634.5 | 587.4 | 554.4 | 530.2 | 512.0 | 488.1 | 458.5 | 430.5 |
| 47.5° | 834.8 | 740.6 | 657.4 | 591.8 | 546.3 | 514.7 | 492.1 | 474.0 | 455.8 | 430.2 | 403.6 |
| 50° | 785.3 | 697.8 | 618.0 | 551.0 | 502.9 | 472.3 | 452.1 | 437.6 | 421.1 | 400.2 | 376.0 |
| 52.5° | 730.8 | 649.7 | 571.6 | 509.0 | 462.5 | 431.9 | 411.0 | 398.9 | 386.4 | 369.3 | 348.4 |
| 55° | 667.5 | 601.5 | 527.1 | 465.9 | 420.4 | 390.1 | 373.6 | 361.9 | 351.4 | 338.3 | 320.8 |
| 57.5° | 600.5 | 542.6 | 478.0 | 421.4 | 378.7 | 350.1 | 335.6 | 325.8 | 317.1 | 307.7 | 293.2 |
| 60° | 530.2 | 489.1 | 427.8 | 376.0 | 338.6 | 315.1 | 301.3 | 292.2 | 284.1 | 276.4 | 265.6 |
| 62.5° | 456.8 | 422.8 | 377.0 | 332.9 | 299.6 | 277.4 | 267.3 | 259.5 | 251.1 | 244.4 | 236.6 |
| 65° | 382.4 | 362.9 | 331.2 | 289.8 | 259.2 | 241.0 | 231.3 | 224.9 | 220.8 | 213.1 | 207.0 |
| 67.5° | 314.7 | 304.0 | 277.0 | 249.1 | 225.5 | 209.0 | 200.0 | 195.2 | 190.9 | 187.2 | 180.4 |
| 70° | 250.4 | 242.7 | 227.2 | 207.4 | 188.8 | 174.7 | 168.0 | 166.6 | 160.6 | 156.9 | 153.5 |
| 72.5° | 190.9 | 188.8 | 176.1 | 167.3 | 156.9 | 145.8 | 140.7 | 138.0 | 134.0 | 130.6 | 129.3 |
| 75° | 135.7 | 138.7 | 134.6 | 130.3 | 125.2 | 116.1 | 111.8 | 110.4 | 106.7 | 105.7 | 104.0 |
| 77.5° | 92.6 | 96.9 | 98.3 | 96.3 | 93.9 | 90.9 | 87.9 | 86.5 | 82.8 | 82.1 | 81.1 |
| 80° | 58.2 | 64.6 | 67.0 | 66.7 | 65.6 | 66.0 | 62.3 | 61.9 | 60.3 | 59.2 | 60.3 |
| 82.5° | 35.3 | 38.7 | 43.1 | 44.1 | 42.8 | 43.4 | 42.4 | 41.1 | 41.1 | 41.7 | 40.4 |
| 85° | 19.2 | 19.5 | 21.5 | 22.9 | 24.6 | 25.9 | 24.6 | 24.9 | 24.6 | 24.6 | 23.6 |
| 87.5° | 8.4 | 8.8 | 8.8 | 8.4 | 9.1 | 9.8 | 11.1 | 11.8 | 11.4 | 10.4 | 9.1 |
| 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: P243779

CATALOG NUMBER: S125RDRP-H610D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 | 848.9 |
| 2.5° | 831.4 | 829.1 | 825.0 | 821.7 | 813.9 | 808.6 | 807.9 | 808.2 | 807.5 | 806.9 | 806.5 |
| 5° | 811.2 | 803.5 | 796.1 | 789.7 | 781.0 | 772.2 | 768.2 | 766.5 | 765.8 | 762.1 | 764.1 |
| 7.5° | 789.7 | 777.9 | 769.2 | 757.1 | 746.6 | 739.2 | 732.1 | 728.8 | 728.1 | 723.1 | 721.7 |
| 10° | 766.8 | 752.7 | 739.5 | 727.4 | 717.0 | 706.6 | 698.1 | 695.1 | 691.1 | 687.0 | 681.0 |
| 12.5° | 744.3 | 726.8 | 712.3 | 698.8 | 684.7 | 672.9 | 666.2 | 661.8 | 656.7 | 653.0 | 651.0 |
| 15° | 717.3 | 702.5 | 684.7 | 670.2 | 655.7 | 645.3 | 636.2 | 628.1 | 623.4 | 620.4 | 612.0 |
| 17.5° | 693.1 | 673.6 | 656.7 | 642.9 | 627.1 | 615.3 | 605.9 | 599.2 | 591.1 | 585.0 | 579.7 |
| 20° | 667.2 | 647.0 | 631.5 | 615.0 | 598.8 | 584.4 | 572.6 | 567.2 | 561.5 | 555.8 | 552.7 |
| 22.5° | 639.2 | 621.7 | 604.2 | 587.1 | 569.9 | 554.4 | 547.0 | 539.3 | 534.2 | 528.5 | 524.4 |
| 25° | 615.0 | 595.8 | 578.3 | 559.1 | 540.3 | 531.2 | 521.1 | 513.3 | 509.3 | 503.6 | 499.2 |
| 27.5° | 589.1 | 570.6 | 549.7 | 529.8 | 518.7 | 503.2 | 496.5 | 490.5 | 485.1 | 479.3 | 476.3 |
| 30° | 564.8 | 543.3 | 522.4 | 506.9 | 492.5 | 481.4 | 475.0 | 467.6 | 460.2 | 457.5 | 453.4 |
| 32.5° | 539.3 | 516.0 | 497.9 | 482.4 | 470.3 | 456.8 | 450.7 | 444.7 | 437.6 | 434.2 | 430.5 |
| 35° | 512.7 | 490.1 | 472.3 | 458.1 | 445.7 | 435.6 | 428.8 | 422.5 | 418.1 | 413.0 | 410.3 |
| 37.5° | 484.7 | 465.2 | 448.0 | 433.9 | 422.5 | 414.4 | 406.0 | 400.9 | 394.9 | 390.1 | 388.1 |
| 40° | 458.1 | 440.6 | 424.1 | 411.0 | 400.6 | 390.8 | 383.4 | 377.0 | 373.3 | 369.3 | 365.9 |
| 42.5° | 434.2 | 416.1 | 401.9 | 388.1 | 378.7 | 369.3 | 361.9 | 357.2 | 350.8 | 349.1 | 344.4 |
| 45° | 408.7 | 391.8 | 377.7 | 364.9 | 355.1 | 347.4 | 338.6 | 332.9 | 328.9 | 324.8 | 323.2 |
| 47.5° | 382.7 | 367.2 | 354.1 | 342.3 | 332.2 | 323.5 | 316.8 | 310.7 | 306.3 | 302.6 | 300.6 |
| 50° | 357.5 | 344.0 | 330.9 | 319.4 | 309.0 | 302.6 | 294.5 | 287.8 | 284.4 | 280.4 | 278.0 |
| 52.5° | 330.9 | 319.8 | 305.6 | 295.9 | 286.1 | 277.7 | 269.6 | 265.3 | 261.9 | 258.5 | 256.8 |
| 55° | 306.0 | 294.2 | 282.1 | 271.6 | 262.2 | 253.5 | 247.1 | 243.7 | 239.3 | 237.3 | 237.0 |
| 57.5° | 280.4 | 268.3 | 258.2 | 248.8 | 238.0 | 231.3 | 225.5 | 221.5 | 217.8 | 216.1 | 216.1 |
| 60° | 252.5 | 242.7 | 233.3 | 222.8 | 215.1 | 207.4 | 201.3 | 198.6 | 194.9 | 194.2 | 191.9 |
| 62.5° | 226.9 | 217.8 | 208.7 | 198.9 | 191.9 | 184.1 | 179.8 | 176.1 | 174.0 | 171.3 | 168.6 |
| 65° | 200.3 | 192.2 | 183.5 | 175.0 | 169.3 | 160.9 | 156.9 | 152.5 | 150.1 | 147.1 | 143.7 |
| 67.5° | 174.7 | 167.0 | 158.9 | 151.1 | 146.4 | 138.3 | 135.7 | 130.3 | 128.6 | 125.2 | 122.2 |
| 70° | 147.8 | 142.4 | 136.0 | 128.3 | 124.2 | 117.8 | 115.1 | 110.1 | 107.4 | 105.4 | 103.7 |
| 72.5° | 124.5 | 119.5 | 112.1 | 107.0 | 102.0 | 98.0 | 93.6 | 91.2 | 88.9 | 87.2 | 86.8 |
| 75° | 101.7 | 95.3 | 90.9 | 86.2 | 82.8 | 78.8 | 76.7 | 75.1 | 74.1 | 73.0 | 72.0 |
| 77.5° | 77.8 | 75.1 | 70.7 | 66.0 | 63.3 | 61.6 | 60.3 | 59.6 | 58.6 | 58.2 | 57.2 |
| 80° | 57.9 | 54.2 | 51.5 | 49.8 | 47.8 | 46.5 | 45.4 | 43.1 | 41.7 | 41.1 | 40.4 |
| 82.5° | 38.4 | 37.4 | 35.3 | 33.7 | 32.0 | 31.6 | 30.6 | 30.0 | 29.6 | 29.6 | 29.3 |
| 85° | 23.2 | 20.5 | 20.5 | 20.2 | 20.2 | 19.9 | 19.2 | 19.2 | 18.5 | 19.5 | 19.5 |
| 87.5° | 9.4 | 9.4 | 8.8 | 8.8 | 9.1 | 8.4 | 8.1 | 8.1 | 8.1 | 7.7 | 8.1 |
| 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: P243779

CATALOG NUMBER: S125RDRP-H610D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 848.9 | 848.9 | 848.9 | 848.9 |
| 2.5° | 806.5 | 804.9 | 805.2 | 803.2 |
| 5° | 760.4 | 759.4 | 756.0 | 753.3 |
| 7.5° | 718.3 | 714.0 | 713.6 | 710.9 |
| 10° | 679.0 | 674.9 | 672.9 | 673.2 |
| 12.5° | 644.6 | 640.2 | 640.2 | 637.6 |
| 15° | 607.9 | 603.6 | 604.2 | 603.9 |
| 17.5° | 577.6 | 574.6 | 572.2 | 570.2 |
| 20° | 548.0 | 544.3 | 543.0 | 541.3 |
| 22.5° | 520.7 | 518.1 | 518.4 | 518.4 |
| 25° | 494.8 | 495.2 | 492.1 | 491.5 |
| 27.5° | 471.9 | 471.3 | 470.6 | 469.2 |
| 30° | 450.4 | 447.7 | 447.0 | 445.7 |
| 32.5° | 428.2 | 427.8 | 425.1 | 426.2 |
| 35° | 405.6 | 404.6 | 403.9 | 403.3 |
| 37.5° | 384.8 | 382.7 | 382.4 | 381.7 |
| 40° | 363.5 | 362.9 | 359.8 | 361.5 |
| 42.5° | 340.7 | 339.3 | 339.3 | 339.3 |
| 45° | 321.5 | 317.8 | 317.8 | 316.4 |
| 47.5° | 299.9 | 298.6 | 297.9 | 295.5 |
| 50° | 278.7 | 276.7 | 276.0 | 276.0 |
| 52.5° | 256.8 | 256.5 | 257.2 | 255.8 |
| 55° | 237.7 | 238.0 | 237.7 | 237.0 |
| 57.5° | 216.8 | 215.1 | 215.1 | 215.4 |
| 60° | 191.9 | 191.9 | 192.5 | 191.2 |
| 62.5° | 168.0 | 167.3 | 164.9 | 164.3 |
| 65° | 143.4 | 140.7 | 140.4 | 140.7 |
| 67.5° | 121.5 | 120.5 | 118.8 | 119.2 |
| 70° | 102.7 | 102.3 | 100.6 | 99.6 |
| 72.5° | 85.8 | 85.8 | 84.8 | 84.8 |
| 75° | 71.7 | 71.0 | 70.7 | 71.4 |
| 77.5° | 55.2 | 53.5 | 54.2 | 53.2 |
| 80° | 40.1 | 40.7 | 40.1 | 39.7 |
| 82.5° | 29.6 | 28.9 | 29.3 | 28.9 |
| 85° | 18.9 | 18.2 | 18.5 | 18.2 |
| 87.5° | 7.7 | 8.1 | 8.1 | 7.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P243779
 CATALOG NUMBER: S125RDRP-H610D840-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 | 16.17 | 17.71 | 16.53 | 18.02 | 18.34 | 16.86 | 18.40 | 17.23 | 18.72 | 19.03 |
| | 3H | 17.25 | 18.63 | 17.63 | 18.96 | 19.32 | 18.34 | 19.72 | 18.72 | 20.05 | 20.41 |
| | 4H | 17.61 | 18.90 | 18.01 | 19.25 | 19.63 | 18.87 | 20.16 | 19.26 | 20.51 | 20.89 |
| | 6H | 17.82 | 19.02 | 18.24 | 19.39 | 19.78 | 19.22 | 20.42 | 19.63 | 20.78 | 21.18 |
| | 8H | 17.88 | 19.02 | 18.31 | 19.41 | 19.81 | 19.32 | 20.46 | 19.75 | 20.85 | 21.25 |
| | 12H | 17.92 | 19.01 | 18.35 | 19.39 | 19.82 | 19.38 | 20.47 | 19.81 | 20.85 | 21.28 |
| 4H | 2H | 17.69 | 18.98 | 18.09 | 19.33 | 19.71 | 17.74 | 19.03 | 18.14 | 19.38 | 19.76 |
| | 3H | 18.73 | 19.81 | 19.14 | 20.21 | 20.61 | 19.40 | 20.47 | 19.81 | 20.87 | 21.27 |
| | 4H | 19.09 | 20.06 | 19.53 | 20.48 | 20.91 | 20.00 | 20.96 | 20.43 | 21.38 | 21.82 |
| | 6H | 19.34 | 20.18 | 19.80 | 20.62 | 21.08 | 20.43 | 21.27 | 20.89 | 21.71 | 22.17 |
| | 8H | 19.40 | 20.19 | 19.86 | 20.63 | 21.10 | 20.55 | 21.34 | 21.02 | 21.78 | 22.25 |
| | 12H | 19.45 | 20.15 | 19.93 | 20.63 | 21.10 | 20.64 | 21.34 | 21.12 | 21.82 | 22.29 |
| 8H | 4H | 19.46 | 20.24 | 19.92 | 20.68 | 21.15 | 20.15 | 20.93 | 20.61 | 21.38 | 21.84 |
| | 6H | 19.75 | 20.40 | 20.24 | 20.89 | 21.36 | 20.67 | 21.32 | 21.17 | 21.81 | 22.29 |
| | 8H | 19.84 | 20.42 | 20.36 | 20.93 | 21.42 | 20.85 | 21.43 | 21.36 | 21.94 | 22.43 |
| | 12H | 19.93 | 20.44 | 20.44 | 20.93 | 21.50 | 20.99 | 21.50 | 21.50 | 21.99 | 22.56 |
| 12H | 4H | 19.48 | 20.18 | 19.96 | 20.66 | 21.13 | 20.14 | 20.84 | 20.62 | 21.32 | 21.79 |
| | 6H | 19.78 | 20.36 | 20.29 | 20.87 | 21.36 | 20.66 | 21.25 | 21.18 | 21.76 | 22.24 |
| | 8H | 19.91 | 20.43 | 20.42 | 20.92 | 21.48 | 20.88 | 21.40 | 21.39 | 21.89 | 22.45 |