

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: P243175

Luminaire Tested: S122DRP-H485D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-58)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-H485D940-X4F0-XX-UDD-A-W
Description: DEFINE 2 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

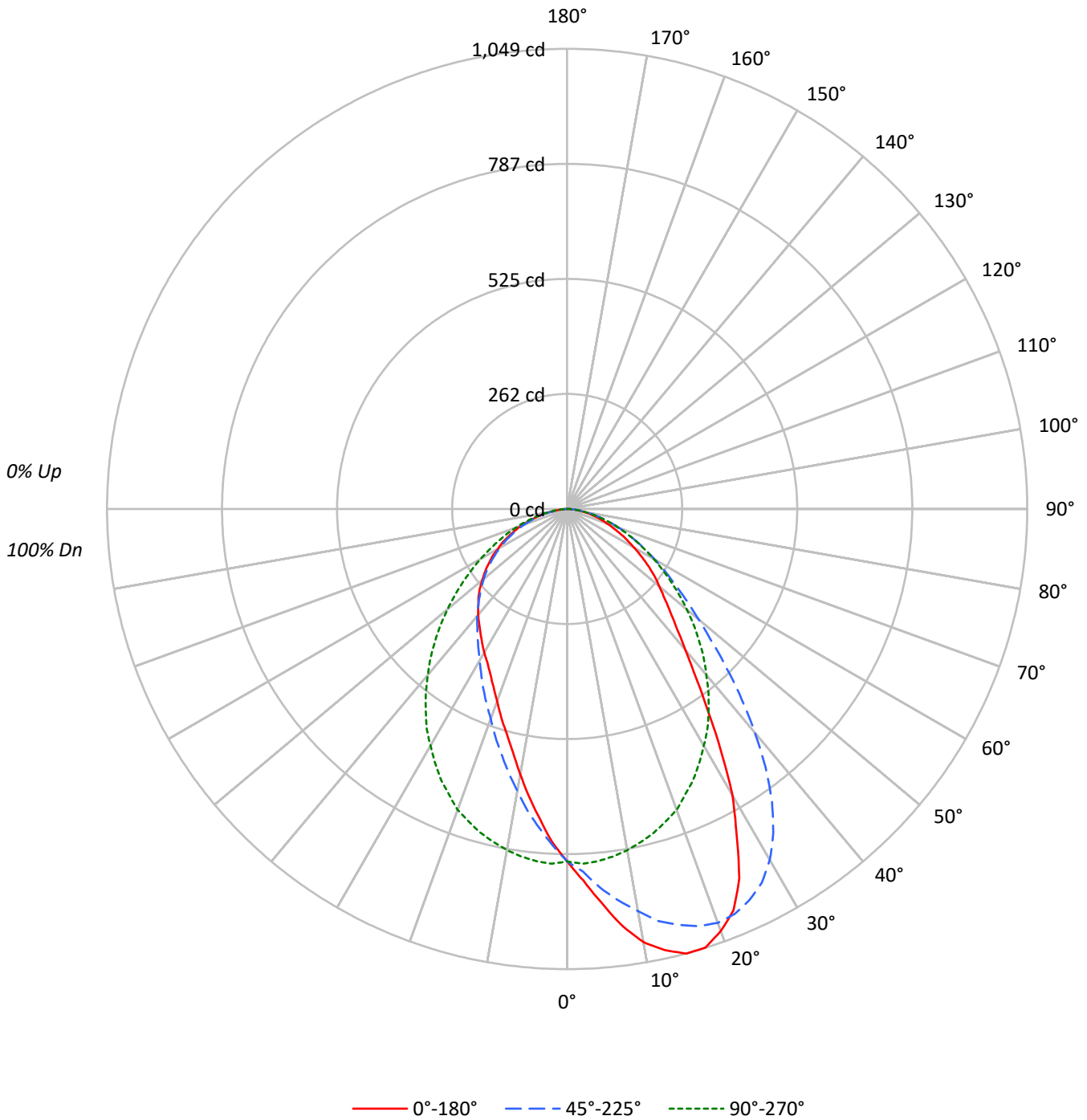
Lumens per Lamp: N/A
Luminaire Lumens: 1782.4 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.16 / 1.24
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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: P243175

CATALOG NUMBER: S122DRP-H485D940-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243175

CATALOG NUMBER: S122DRP-H485D940-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 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | | | | 86 | |
| 2 | 101 | 93 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | | | | 74 | |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 73 | 69 | 66 | | | | 63 | |
| 4 | 86 | 74 | 66 | 60 | 83 | 73 | 66 | 60 | 71 | 64 | 59 | 68 | 63 | 58 | 66 | 61 | 57 | | | | 55 | |
| 5 | 79 | 67 | 59 | 52 | 77 | 66 | 58 | 52 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | | | | 49 | |
| 6 | 73 | 61 | 52 | 46 | 72 | 60 | 52 | 46 | 58 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | | | | 43 | |
| 7 | 68 | 56 | 47 | 41 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | | | | 39 | |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | | | | 35 | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 33 | | | | 32 | |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 31 | 40 | 35 | 31 | | | | 29 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 15301 | 15301 | 15301 | 15301 | 15301 |
| 5° | 17235 | 16576 | 15409 | 13954 | 13574 |
| 10° | 19400 | 18003 | 15272 | 12632 | 11880 |
| 15° | 20694 | 19351 | 15066 | 11402 | 10469 |
| 20° | 20753 | 20349 | 14793 | 10311 | 9448 |
| 25° | 19518 | 20674 | 14302 | 9498 | 8709 |
| 30° | 16568 | 20323 | 13705 | 8763 | 8316 |
| 35° | 12954 | 18928 | 13066 | 8273 | 8006 |
| 40° | 10408 | 16550 | 12278 | 7939 | 7850 |
| 45° | 8954 | 13870 | 11467 | 7607 | 7704 |
| 50° | 8122 | 11566 | 10552 | 7355 | 7488 |
| 55° | 7482 | 9943 | 9617 | 7070 | 7286 |
| 60° | 6728 | 8766 | 8663 | 6739 | 6952 |
| 65° | 6058 | 7838 | 7784 | 6310 | 6621 |
| 70° | 5397 | 6956 | 6922 | 5781 | 6193 |
| 75° | 4857 | 6057 | 5954 | 5122 | 5424 |
| 80° | 4234 | 5024 | 4794 | 4179 | 4234 |
| 85° | 3628 | 4152 | 3584 | 2797 | 2338 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 65°
 Vertical Angle: 45°
 Luminance: 19180 cd/sqm



TEST NUMBER: P243175

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.5 | 4.3 |
| 10°-20° | 220.0 | 12.3 |
| 20°-30° | 319.9 | 17.9 |
| 30°-40° | 343.1 | 19.3 |
| 40°-50° | 307.5 | 17.3 |
| 50°-60° | 245.2 | 13.8 |
| 60°-70° | 165.8 | 9.3 |
| 70°-80° | 84.6 | 4.7 |
| 80°-90° | 19.8 | 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° | 616.4 | 34.6 |
| 0°-40° | 959.5 | 53.8 |
| 0°-60° | 1512.2 | 84.8 |
| 0°-90° | 1782.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1782.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 803 | 803 | 803 | 803 | 803 | |
| 5° | 901 | 867 | 806 | 730 | 710 | 89 |
| 15° | 1049 | 981 | 764 | 578 | 531 | 294 |
| 25° | 929 | 984 | 680 | 452 | 414 | 418 |
| 35° | 557 | 814 | 562 | 356 | 344 | 353 |
| 45° | 332 | 515 | 426 | 282 | 286 | 260 |
| 55° | 225 | 299 | 290 | 213 | 219 | 201 |
| 65° | 134 | 174 | 173 | 140 | 147 | 133 |
| 75° | 66 | 82 | 81 | 70 | 74 | 70 |
| 85° | 17 | 19 | 16 | 13 | 11 | 19 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P243175

CATALOG NUMBER: S122DRP-H485D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 |
| 2.5° | 847.9 | 850.5 | 848.1 | 847.3 | 845.5 | 844.9 | 840.1 | 836.3 | 833.9 | 827.3 | 827.9 |
| 5° | 901.4 | 907.3 | 904.0 | 903.7 | 897.2 | 893.0 | 888.9 | 882.9 | 874.0 | 866.9 | 861.2 |
| 7.5° | 957.8 | 954.9 | 954.0 | 950.7 | 946.0 | 940.0 | 930.8 | 922.2 | 910.9 | 900.5 | 892.7 |
| 10° | 1003.0 | 1002.1 | 1003.6 | 995.3 | 992.3 | 983.1 | 975.1 | 961.7 | 947.1 | 930.8 | 920.7 |
| 12.5° | 1029.8 | 1032.5 | 1034.5 | 1031.3 | 1024.1 | 1021.5 | 1008.1 | 989.4 | 984.3 | 962.0 | 949.8 |
| 15° | 1049.4 | 1050.6 | 1050.9 | 1047.3 | 1043.8 | 1036.9 | 1028.9 | 1017.0 | 1000.7 | 981.3 | 972.1 |
| 17.5° | 1048.2 | 1047.9 | 1049.7 | 1047.6 | 1045.5 | 1043.5 | 1037.2 | 1028.0 | 1015.2 | 997.1 | 981.6 |
| 20° | 1023.8 | 1029.2 | 1033.4 | 1034.2 | 1034.0 | 1035.1 | 1032.2 | 1026.2 | 1017.0 | 1003.9 | 986.4 |
| 22.5° | 990.5 | 988.5 | 997.4 | 996.8 | 1000.7 | 1009.6 | 1013.4 | 1011.1 | 1007.5 | 999.2 | 985.2 |
| 25° | 928.7 | 930.8 | 937.0 | 943.6 | 958.7 | 964.1 | 975.7 | 984.6 | 985.8 | 983.7 | 975.1 |
| 27.5° | 836.0 | 850.8 | 854.1 | 862.7 | 883.8 | 901.4 | 924.8 | 938.8 | 958.7 | 960.5 | 956.7 |
| 30° | 753.3 | 752.7 | 757.8 | 773.2 | 792.6 | 819.0 | 849.3 | 885.3 | 908.2 | 924.0 | 929.6 |
| 32.5° | 651.6 | 654.0 | 667.1 | 686.1 | 705.8 | 732.2 | 767.3 | 811.3 | 841.9 | 874.6 | 893.0 |
| 35° | 557.1 | 564.5 | 577.0 | 590.1 | 611.5 | 647.8 | 686.7 | 723.3 | 770.3 | 814.0 | 843.7 |
| 37.5° | 479.2 | 489.3 | 498.8 | 511.3 | 532.1 | 560.1 | 595.2 | 643.6 | 690.3 | 742.9 | 786.6 |
| 40° | 418.6 | 422.4 | 429.0 | 441.2 | 455.1 | 483.1 | 518.5 | 554.7 | 605.3 | 665.6 | 723.0 |
| 42.5° | 371.0 | 370.1 | 377.3 | 385.0 | 397.8 | 418.6 | 449.5 | 485.8 | 536.0 | 589.5 | 647.5 |
| 45° | 332.4 | 332.7 | 335.6 | 343.7 | 353.8 | 365.7 | 389.4 | 423.6 | 461.7 | 514.9 | 576.4 |
| 47.5° | 300.9 | 301.7 | 306.2 | 311.9 | 317.8 | 328.8 | 344.6 | 366.8 | 402.5 | 447.1 | 504.8 |
| 50° | 274.1 | 275.6 | 278.6 | 282.7 | 287.2 | 294.9 | 306.8 | 324.3 | 352.6 | 390.3 | 442.7 |
| 52.5° | 250.3 | 250.9 | 251.8 | 255.7 | 259.2 | 266.4 | 275.3 | 289.0 | 311.3 | 342.8 | 383.5 |
| 55° | 225.3 | 224.7 | 226.8 | 230.1 | 233.4 | 238.4 | 247.6 | 258.6 | 274.4 | 299.4 | 333.0 |
| 57.5° | 199.8 | 200.7 | 202.2 | 203.9 | 209.9 | 215.2 | 222.1 | 232.2 | 244.7 | 264.3 | 292.2 |
| 60° | 176.6 | 176.6 | 178.4 | 180.7 | 184.6 | 188.2 | 194.7 | 203.9 | 214.9 | 230.1 | 253.6 |
| 62.5° | 154.0 | 155.2 | 157.0 | 158.2 | 161.7 | 166.2 | 171.2 | 178.4 | 188.5 | 200.7 | 218.2 |
| 65° | 134.4 | 133.8 | 135.6 | 137.9 | 140.6 | 143.6 | 149.2 | 155.2 | 162.9 | 173.9 | 188.5 |
| 67.5° | 114.2 | 115.9 | 116.5 | 117.7 | 119.8 | 123.7 | 126.3 | 132.6 | 138.8 | 148.6 | 160.8 |
| 70° | 96.9 | 98.1 | 99.0 | 100.5 | 102.3 | 104.0 | 106.7 | 111.8 | 118.0 | 124.9 | 133.5 |
| 72.5° | 81.5 | 82.3 | 81.5 | 82.9 | 83.8 | 85.6 | 89.2 | 91.6 | 96.3 | 102.3 | 110.0 |
| 75° | 66.0 | 66.6 | 66.3 | 67.8 | 68.1 | 69.9 | 71.6 | 73.7 | 79.1 | 82.3 | 87.7 |
| 77.5° | 51.7 | 52.3 | 52.6 | 53.2 | 53.8 | 54.7 | 55.6 | 57.7 | 60.6 | 63.6 | 67.8 |
| 80° | 38.6 | 38.6 | 39.5 | 39.8 | 40.1 | 40.7 | 42.2 | 42.8 | 44.9 | 45.8 | 49.1 |
| 82.5° | 26.8 | 27.1 | 27.4 | 27.4 | 27.6 | 28.2 | 28.5 | 29.7 | 30.3 | 31.8 | 33.3 |
| 85° | 16.6 | 16.9 | 16.9 | 16.9 | 17.8 | 17.5 | 17.5 | 18.1 | 19.0 | 19.0 | 19.6 |
| 87.5° | 8.3 | 8.6 | 8.6 | 8.6 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 9.5 | 9.2 |
| 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: P243175

CATALOG NUMBER: S122DRP-H485D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 |
| 2.5° | 827.6 | 827.3 | 826.2 | 820.8 | 816.6 | 811.3 | 810.4 | 809.5 | 802.1 | 794.0 | 791.7 |
| 5° | 856.8 | 851.4 | 844.0 | 835.1 | 826.2 | 816.3 | 810.7 | 805.9 | 794.6 | 782.2 | 775.0 |
| 7.5° | 885.3 | 874.9 | 863.3 | 849.3 | 834.5 | 818.7 | 808.6 | 799.1 | 783.6 | 767.3 | 757.5 |
| 10° | 909.7 | 895.7 | 879.7 | 861.2 | 840.7 | 819.3 | 804.4 | 789.6 | 770.0 | 750.0 | 737.0 |
| 12.5° | 929.9 | 912.1 | 891.0 | 866.0 | 847.3 | 817.8 | 797.0 | 777.4 | 755.7 | 729.8 | 715.6 |
| 15° | 945.4 | 927.8 | 899.3 | 874.0 | 849.3 | 810.1 | 784.8 | 764.0 | 734.9 | 709.6 | 687.0 |
| 17.5° | 964.1 | 939.1 | 910.9 | 874.6 | 847.3 | 802.4 | 773.8 | 746.8 | 715.3 | 685.5 | 660.6 |
| 20° | 972.4 | 946.3 | 915.9 | 875.5 | 840.7 | 794.0 | 756.0 | 729.8 | 691.8 | 657.6 | 629.3 |
| 22.5° | 973.6 | 948.6 | 915.6 | 872.8 | 829.4 | 781.9 | 738.2 | 704.0 | 665.9 | 629.6 | 597.8 |
| 25° | 968.5 | 944.8 | 910.6 | 868.1 | 816.9 | 768.8 | 720.0 | 680.5 | 636.5 | 599.0 | 566.6 |
| 27.5° | 954.9 | 935.6 | 903.1 | 857.7 | 804.2 | 748.6 | 695.3 | 652.2 | 608.8 | 566.3 | 535.4 |
| 30° | 932.9 | 920.1 | 892.1 | 844.0 | 787.8 | 726.6 | 673.3 | 623.1 | 576.1 | 536.3 | 503.0 |
| 32.5° | 904.6 | 898.4 | 875.2 | 827.6 | 771.2 | 702.5 | 646.9 | 595.2 | 544.0 | 506.3 | 472.1 |
| 35° | 868.7 | 871.9 | 852.3 | 809.2 | 750.0 | 678.1 | 616.0 | 561.9 | 511.9 | 471.8 | 440.3 |
| 37.5° | 822.0 | 838.0 | 825.6 | 785.1 | 723.0 | 653.4 | 583.6 | 529.2 | 476.8 | 438.2 | 410.5 |
| 40° | 769.7 | 797.9 | 792.0 | 758.1 | 693.9 | 624.6 | 552.4 | 493.8 | 442.7 | 406.1 | 379.6 |
| 42.5° | 708.1 | 749.2 | 755.7 | 725.1 | 665.0 | 588.6 | 517.3 | 460.8 | 411.4 | 375.5 | 350.2 |
| 45° | 639.2 | 690.0 | 712.0 | 687.9 | 631.4 | 553.8 | 481.3 | 425.7 | 377.0 | 346.3 | 325.2 |
| 47.5° | 569.9 | 631.1 | 660.9 | 649.3 | 592.2 | 516.7 | 445.6 | 391.2 | 345.1 | 318.4 | 298.5 |
| 50° | 501.5 | 567.2 | 610.6 | 602.9 | 553.5 | 481.3 | 409.7 | 356.1 | 313.9 | 289.3 | 272.3 |
| 52.5° | 441.5 | 503.6 | 550.9 | 554.7 | 510.4 | 440.9 | 371.6 | 322.0 | 286.0 | 263.7 | 249.4 |
| 55° | 382.3 | 440.0 | 491.7 | 501.2 | 465.2 | 398.4 | 336.5 | 289.6 | 256.9 | 238.4 | 226.8 |
| 57.5° | 329.4 | 381.7 | 433.1 | 449.8 | 420.7 | 360.3 | 298.8 | 257.4 | 229.2 | 214.9 | 204.8 |
| 60° | 284.5 | 331.8 | 376.1 | 393.0 | 373.1 | 318.1 | 264.3 | 227.4 | 203.9 | 191.2 | 183.1 |
| 62.5° | 245.3 | 281.8 | 321.1 | 339.8 | 326.4 | 278.6 | 231.6 | 198.9 | 179.9 | 168.9 | 162.6 |
| 65° | 209.9 | 238.1 | 269.0 | 290.7 | 275.9 | 240.2 | 201.0 | 172.7 | 156.7 | 146.6 | 142.1 |
| 67.5° | 177.2 | 200.7 | 225.3 | 242.6 | 235.2 | 202.7 | 169.7 | 147.7 | 134.4 | 126.6 | 122.5 |
| 70° | 147.5 | 165.0 | 184.9 | 198.3 | 192.9 | 168.0 | 141.8 | 124.3 | 113.0 | 107.6 | 104.0 |
| 72.5° | 121.0 | 132.3 | 147.5 | 158.5 | 152.8 | 135.3 | 116.5 | 102.6 | 94.2 | 88.0 | 85.3 |
| 75° | 96.0 | 105.8 | 116.5 | 124.0 | 119.5 | 106.4 | 91.6 | 80.9 | 75.2 | 71.3 | 69.6 |
| 77.5° | 72.8 | 80.6 | 88.0 | 91.6 | 89.5 | 80.0 | 69.9 | 61.5 | 56.8 | 54.4 | 52.3 |
| 80° | 52.3 | 56.8 | 61.8 | 65.1 | 63.9 | 57.4 | 50.2 | 43.7 | 41.6 | 38.6 | 38.1 |
| 82.5° | 35.1 | 38.6 | 39.8 | 41.3 | 40.4 | 37.5 | 32.4 | 28.5 | 26.8 | 25.3 | 25.0 |
| 85° | 20.8 | 21.7 | 23.2 | 23.2 | 22.3 | 20.2 | 17.5 | 16.4 | 14.6 | 14.3 | 13.4 |
| 87.5° | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 8.6 | 7.4 | 6.8 | 6.2 | 5.9 | 5.6 |
| 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: P243175

CATALOG NUMBER: S122DRP-H485D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 | 803.3 |
| 2.5° | 789.6 | 786.6 | 782.4 | 777.7 | 773.5 | 767.0 | 764.9 | 764.9 | 766.4 | 764.6 | 763.1 |
| 5° | 769.1 | 763.1 | 757.2 | 748.0 | 740.2 | 729.8 | 726.9 | 723.9 | 723.6 | 720.6 | 716.7 |
| 7.5° | 747.1 | 738.2 | 726.0 | 712.9 | 704.6 | 693.3 | 687.0 | 685.2 | 679.6 | 674.2 | 668.0 |
| 10° | 721.5 | 707.8 | 693.3 | 680.8 | 667.7 | 653.1 | 645.7 | 640.6 | 635.0 | 628.5 | 624.0 |
| 12.5° | 690.6 | 675.1 | 661.8 | 647.2 | 636.2 | 615.7 | 613.3 | 606.8 | 595.5 | 585.6 | 582.1 |
| 15° | 671.6 | 644.5 | 629.3 | 616.0 | 599.3 | 578.2 | 570.5 | 563.4 | 552.6 | 546.4 | 541.4 |
| 17.5° | 638.0 | 613.6 | 594.6 | 576.7 | 560.7 | 544.3 | 532.7 | 526.8 | 518.2 | 512.8 | 507.8 |
| 20° | 607.3 | 580.9 | 561.0 | 540.2 | 523.5 | 508.7 | 498.8 | 491.4 | 486.9 | 481.6 | 476.5 |
| 22.5° | 576.4 | 548.8 | 529.8 | 508.7 | 489.0 | 480.1 | 468.5 | 462.3 | 456.3 | 452.2 | 446.8 |
| 25° | 540.5 | 518.5 | 494.7 | 478.3 | 461.1 | 451.9 | 440.9 | 434.9 | 430.2 | 425.4 | 422.7 |
| 27.5° | 508.4 | 486.1 | 464.1 | 447.7 | 433.1 | 424.2 | 417.4 | 411.7 | 405.8 | 402.2 | 400.1 |
| 30° | 475.1 | 454.5 | 435.2 | 419.5 | 408.2 | 398.4 | 394.2 | 388.8 | 384.4 | 382.9 | 379.6 |
| 32.5° | 445.3 | 422.4 | 407.0 | 392.7 | 383.2 | 376.4 | 373.4 | 367.7 | 366.8 | 365.4 | 363.6 |
| 35° | 415.6 | 396.0 | 381.1 | 368.9 | 360.9 | 355.8 | 352.0 | 350.5 | 349.0 | 347.5 | 346.0 |
| 37.5° | 386.2 | 370.7 | 356.7 | 346.9 | 340.4 | 336.5 | 335.6 | 332.7 | 332.4 | 330.3 | 330.3 |
| 40° | 359.7 | 344.0 | 334.1 | 326.4 | 321.1 | 319.3 | 316.9 | 316.3 | 315.4 | 314.8 | 316.0 |
| 42.5° | 333.3 | 322.6 | 314.2 | 306.2 | 302.0 | 300.6 | 300.0 | 299.1 | 298.5 | 300.3 | 300.9 |
| 45° | 308.6 | 299.4 | 292.2 | 286.6 | 284.2 | 282.4 | 282.4 | 283.3 | 283.0 | 283.9 | 283.9 |
| 47.5° | 285.7 | 277.4 | 271.4 | 269.3 | 266.4 | 265.8 | 266.1 | 265.8 | 267.3 | 268.4 | 269.6 |
| 50° | 264.0 | 256.6 | 251.8 | 249.7 | 249.1 | 248.2 | 249.4 | 250.0 | 250.9 | 252.1 | 252.7 |
| 52.5° | 239.9 | 236.3 | 233.4 | 231.3 | 231.0 | 231.3 | 231.0 | 233.1 | 234.0 | 235.7 | 235.4 |
| 55° | 219.4 | 216.7 | 214.6 | 212.3 | 212.0 | 212.9 | 213.4 | 215.2 | 216.4 | 217.9 | 217.6 |
| 57.5° | 200.1 | 198.0 | 195.6 | 195.0 | 194.7 | 195.0 | 197.7 | 197.4 | 199.2 | 200.4 | 201.0 |
| 60° | 179.0 | 177.5 | 175.4 | 175.4 | 176.3 | 176.9 | 177.8 | 179.3 | 181.0 | 180.7 | 182.8 |
| 62.5° | 159.6 | 157.9 | 157.3 | 158.2 | 157.9 | 159.3 | 160.2 | 160.2 | 162.6 | 163.5 | 164.1 |
| 65° | 140.3 | 139.7 | 138.8 | 138.8 | 139.7 | 140.0 | 141.5 | 142.4 | 143.3 | 145.1 | 146.6 |
| 67.5° | 122.2 | 120.7 | 120.7 | 120.1 | 121.3 | 122.2 | 123.1 | 124.3 | 124.9 | 126.9 | 127.8 |
| 70° | 103.2 | 102.6 | 102.3 | 102.9 | 102.9 | 103.8 | 105.2 | 106.7 | 107.9 | 108.2 | 110.0 |
| 72.5° | 84.7 | 84.7 | 84.7 | 85.6 | 86.2 | 87.1 | 87.4 | 88.6 | 90.4 | 90.7 | 91.6 |
| 75° | 68.1 | 68.4 | 68.1 | 68.4 | 68.7 | 69.6 | 70.2 | 71.3 | 72.5 | 72.8 | 73.4 |
| 77.5° | 52.6 | 52.0 | 51.4 | 52.3 | 52.9 | 54.7 | 54.4 | 55.0 | 56.2 | 55.6 | 56.2 |
| 80° | 36.9 | 37.8 | 36.6 | 38.3 | 38.3 | 38.1 | 38.6 | 39.5 | 39.2 | 39.8 | 39.2 |
| 82.5° | 25.0 | 24.1 | 24.1 | 25.0 | 25.3 | 24.4 | 25.0 | 25.3 | 25.6 | 25.0 | 24.7 |
| 85° | 13.7 | 13.4 | 14.0 | 13.1 | 13.4 | 12.8 | 12.8 | 12.2 | 12.8 | 12.2 | 11.6 |
| 87.5° | 5.1 | 4.8 | 5.1 | 4.2 | 3.9 | 3.6 | 3.3 | 3.3 | 2.7 | 2.7 | 2.7 |
| 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: P243175

CATALOG NUMBER: S122DRP-H485D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 803.3 | 803.3 | 803.3 | 803.3 |
| 2.5° | 765.2 | 761.9 | 760.5 | 761.6 |
| 5° | 712.6 | 713.5 | 708.1 | 709.9 |
| 7.5° | 667.1 | 663.2 | 664.4 | 662.3 |
| 10° | 618.9 | 616.9 | 613.6 | 614.2 |
| 12.5° | 586.5 | 572.6 | 571.7 | 569.0 |
| 15° | 541.1 | 533.3 | 531.5 | 530.9 |
| 17.5° | 504.8 | 498.2 | 500.6 | 498.8 |
| 20° | 472.1 | 472.4 | 468.5 | 466.1 |
| 22.5° | 443.2 | 442.7 | 441.2 | 438.8 |
| 25° | 418.9 | 418.9 | 415.3 | 414.4 |
| 27.5° | 396.6 | 397.2 | 394.2 | 394.2 |
| 30° | 379.9 | 377.8 | 377.5 | 378.1 |
| 32.5° | 363.3 | 360.9 | 361.2 | 360.9 |
| 35° | 345.4 | 346.0 | 345.1 | 344.3 |
| 37.5° | 330.3 | 330.3 | 330.3 | 329.4 |
| 40° | 315.4 | 316.0 | 315.1 | 315.7 |
| 42.5° | 300.6 | 300.9 | 300.9 | 299.7 |
| 45° | 285.7 | 285.4 | 284.8 | 286.0 |
| 47.5° | 270.2 | 270.2 | 269.9 | 270.5 |
| 50° | 253.3 | 253.9 | 253.0 | 252.7 |
| 52.5° | 236.0 | 236.3 | 236.0 | 236.6 |
| 55° | 218.5 | 218.5 | 218.8 | 219.4 |
| 57.5° | 200.4 | 202.4 | 201.0 | 202.2 |
| 60° | 182.5 | 182.8 | 183.1 | 182.5 |
| 62.5° | 165.6 | 165.3 | 165.6 | 166.5 |
| 65° | 147.2 | 147.7 | 147.5 | 146.9 |
| 67.5° | 129.0 | 128.4 | 129.3 | 128.4 |
| 70° | 109.7 | 110.9 | 110.0 | 111.2 |
| 72.5° | 92.2 | 91.9 | 92.5 | 91.0 |
| 75° | 73.7 | 73.7 | 74.0 | 73.7 |
| 77.5° | 56.5 | 55.9 | 55.6 | 54.7 |
| 80° | 38.9 | 38.9 | 37.8 | 38.6 |
| 82.5° | 23.8 | 24.1 | 24.4 | 22.6 |
| 85° | 11.3 | 11.3 | 11.0 | 10.7 |
| 87.5° | 2.4 | 2.4 | 2.7 | 3.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P243175
 CATALOG NUMBER: S122DRP-H485D940-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 | 18.13 | 19.65 | 18.49 | 19.96 | 20.28 | 20.96 | 22.49 | 21.33 | 22.80 | 23.11 |
| | 3H | 19.48 | 20.84 | 19.86 | 21.17 | 21.53 | 21.98 | 23.35 | 22.36 | 23.68 | 24.04 |
| | 4H | 19.96 | 21.24 | 20.36 | 21.59 | 21.97 | 22.31 | 23.59 | 22.71 | 23.94 | 24.32 |
| | 6H | 20.31 | 21.50 | 20.72 | 21.86 | 22.25 | 22.51 | 23.69 | 22.92 | 24.06 | 24.45 |
| | 8H | 20.42 | 21.55 | 20.85 | 21.94 | 22.34 | 22.55 | 23.68 | 22.97 | 24.07 | 24.47 |
| | 12H | 20.49 | 21.57 | 20.92 | 21.95 | 22.38 | 22.56 | 23.64 | 22.99 | 24.03 | 24.45 |
| 4H | 2H | 19.01 | 20.29 | 19.41 | 20.64 | 21.02 | 21.20 | 22.49 | 21.60 | 22.84 | 23.21 |
| | 3H | 20.51 | 21.57 | 20.92 | 21.97 | 22.37 | 22.57 | 23.64 | 22.98 | 24.04 | 24.44 |
| | 4H | 21.07 | 22.03 | 21.51 | 22.45 | 22.88 | 23.09 | 24.05 | 23.52 | 24.46 | 24.90 |
| | 6H | 21.51 | 22.34 | 21.97 | 22.78 | 23.24 | 23.42 | 24.25 | 23.88 | 24.70 | 25.16 |
| | 8H | 21.64 | 22.42 | 22.11 | 22.87 | 23.33 | 23.50 | 24.27 | 23.96 | 24.72 | 25.19 |
| | 12H | 21.74 | 22.44 | 22.22 | 22.92 | 23.39 | 23.53 | 24.23 | 24.02 | 24.71 | 25.18 |
| 8H | 4H | 21.51 | 22.29 | 21.97 | 22.73 | 23.20 | 23.23 | 24.00 | 23.69 | 24.45 | 24.92 |
| | 6H | 22.03 | 22.67 | 22.53 | 23.17 | 23.64 | 23.67 | 24.31 | 24.16 | 24.80 | 25.28 |
| | 8H | 22.22 | 22.79 | 22.73 | 23.30 | 23.79 | 23.80 | 24.38 | 24.32 | 24.89 | 25.38 |
| | 12H | 22.37 | 22.88 | 22.88 | 23.37 | 23.94 | 23.89 | 24.40 | 24.40 | 24.89 | 25.46 |
| 12H | 4H | 21.56 | 22.26 | 22.05 | 22.74 | 23.21 | 23.22 | 23.92 | 23.70 | 24.39 | 24.87 |
| | 6H | 22.11 | 22.69 | 22.62 | 23.20 | 23.68 | 23.67 | 24.25 | 24.18 | 24.76 | 25.25 |
| | 8H | 22.35 | 22.86 | 22.86 | 23.35 | 23.91 | 23.85 | 24.36 | 24.36 | 24.85 | 25.42 |