

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: P646619

Luminaire Tested: S123DRP-S1000D935-X4F0-XX-UDD-G-W

Issue Date: 3/20/2023

Test Information

Test Method: LM-79-2024
Report Number: P646619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DRP-S1000D935-X4F0-XX-UDD-G-W
Description: DEFINE 3 DIRECT RECESSED WITH WALL GRAZE FLUSH OPTIC
STANDARD LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

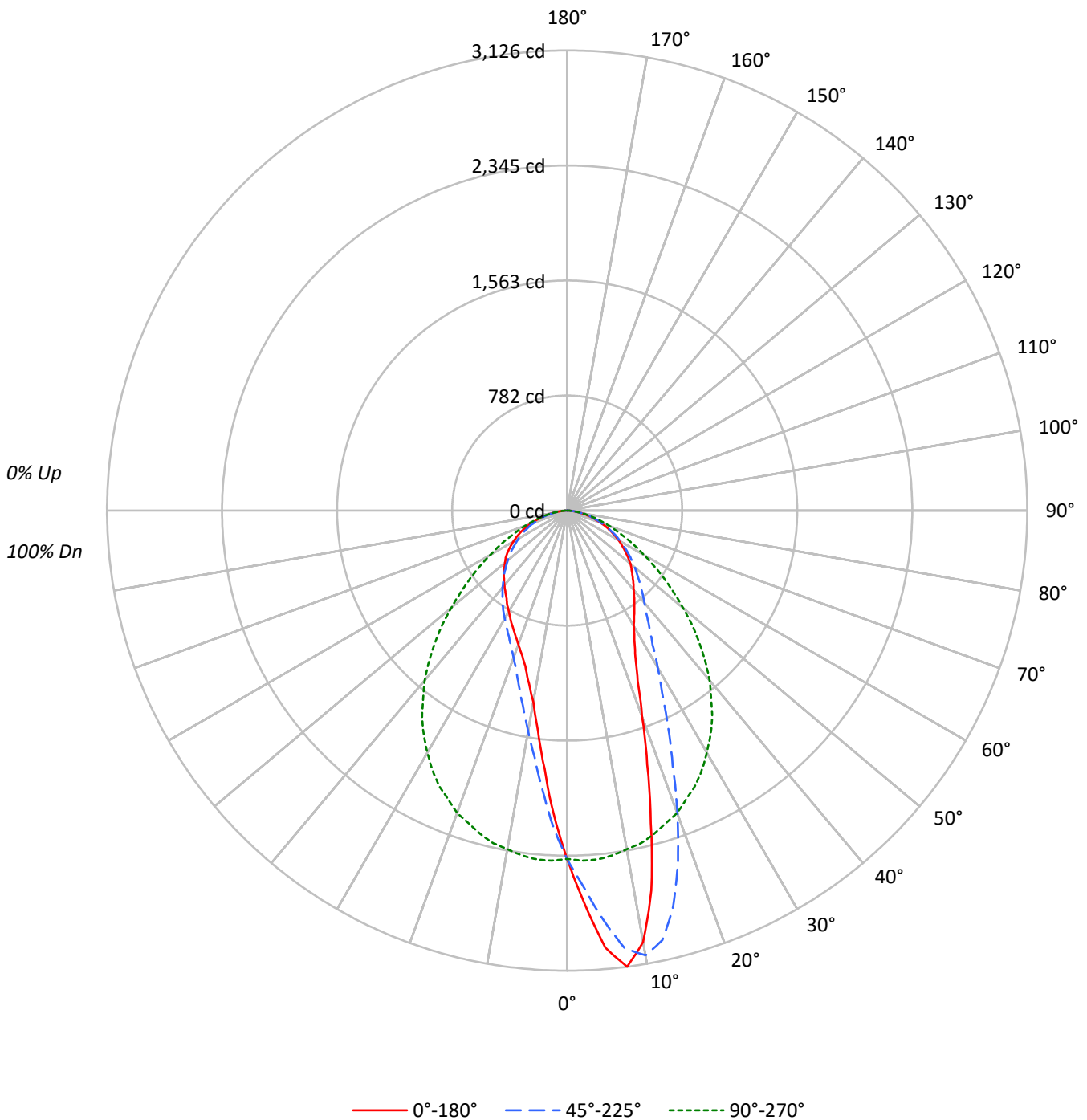
Lumens per Lamp: N/A
Luminaire Lumens: 3801.8 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 1.19 / 0.89
Luminous Opening: Rectangular (W 4' x L: 0.22' x H: 0')
CIE Type: Direct

Input Watts (W): 34.5
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: P646619

CATALOG NUMBER: S123DRP-S1000D935-X4F0-XX-UDD-G-W

Luminous Intensity Polar Plot





TEST NUMBER: P646619

CATALOG NUMBER: S123DRP-S1000D935-X4F0-XX-UDD-G-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 | 94 | 88 | 82 | 99 | 92 | 86 | 82 | 88 | 84 | 80 | 85 | 81 | 78 | 82 | 79 | 76 | | | | | 74 | | | | |
| 3 | 93 | 84 | 76 | 70 | 91 | 82 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 67 | 74 | 70 | 66 | | | | | 64 | | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 67 | 61 | 72 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | | | | | 56 | | | | |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 59 | 54 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | | | | | 50 | | | | |
| 6 | 74 | 62 | 54 | 48 | 73 | 61 | 53 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 56 | 51 | 47 | | | | | 45 | | | | |
| 7 | 70 | 57 | 49 | 43 | 68 | 56 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | | | | | 40 | | | | |
| 8 | 65 | 53 | 45 | 39 | 64 | 52 | 44 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | | | | | 37 | | | | |
| 9 | 61 | 49 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | | | | | 34 | | | | |
| 10 | 58 | 45 | 38 | 33 | 57 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 33 | 42 | 37 | 33 | | | | | 31 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 28511 | 28511 | 28511 | 28511 | 28511 |
| 5° | 36056 | 33719 | 28765 | 23068 | 21302 |
| 10° | 36405 | 37535 | 28574 | 18633 | 16148 |
| 15° | 27421 | 34734 | 28379 | 15614 | 13656 |
| 20° | 19105 | 28088 | 28017 | 13615 | 12403 |
| 25° | 14568 | 21546 | 27399 | 12481 | 11634 |
| 30° | 12603 | 17124 | 26413 | 11793 | 11014 |
| 35° | 11692 | 14342 | 25275 | 11241 | 10579 |
| 40° | 11070 | 12832 | 23677 | 10724 | 10432 |
| 45° | 10701 | 11918 | 21648 | 10272 | 10365 |
| 50° | 10518 | 11258 | 19244 | 9879 | 10312 |
| 55° | 10125 | 10634 | 16883 | 9527 | 10356 |
| 60° | 9765 | 10054 | 14553 | 9181 | 10186 |
| 65° | 9172 | 9423 | 12553 | 8796 | 9987 |
| 70° | 8473 | 8740 | 10675 | 8318 | 9399 |
| 75° | 7668 | 7924 | 9148 | 7616 | 8589 |
| 80° | 6321 | 6779 | 7237 | 6627 | 7237 |
| 85° | 5005 | 5461 | 5309 | 5765 | 5765 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 24715 cd/sqm



TEST NUMBER: P646619

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 223.7 | 5.9 |
| 10°-20° | 556.6 | 14.6 |
| 20°-30° | 658.8 | 17.3 |
| 30°-40° | 662.1 | 17.4 |
| 40°-50° | 607.2 | 16.0 |
| 50°-60° | 501.2 | 13.2 |
| 60°-70° | 354.7 | 9.3 |
| 70°-80° | 189.4 | 5.0 |
| 80°-90° | 48.1 | 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° | 1439.1 | 37.9 |
| 0°-40° | 2101.2 | 55.3 |
| 0°-60° | 3209.6 | 84.4 |
| 0°-90° | 3801.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3801.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2366 | 2366 | 2366 | 2366 | 2366 | |
| 5° | 2981 | 2788 | 2378 | 1907 | 1761 | 284 |
| 15° | 2198 | 2784 | 2275 | 1252 | 1095 | 607 |
| 25° | 1096 | 1621 | 2061 | 939 | 875 | 517 |
| 35° | 795 | 975 | 1718 | 764 | 719 | 499 |
| 45° | 628 | 699 | 1270 | 603 | 608 | 486 |
| 55° | 482 | 506 | 804 | 454 | 493 | 431 |
| 65° | 322 | 330 | 440 | 308 | 350 | 320 |
| 75° | 165 | 170 | 196 | 164 | 184 | 173 |
| 85° | 36 | 40 | 38 | 42 | 42 | 43 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P646619

CATALOG NUMBER: S123DRP-S1000D935-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 |
| 2.5° | 2667.0 | 2661.5 | 2634.1 | 2616.5 | 2620.9 | 2581.4 | 2557.2 | 2537.4 | 2524.3 | 2492.4 | 2476.0 |
| 5° | 2981.0 | 2996.4 | 2978.8 | 2970.1 | 2925.0 | 2853.7 | 2787.8 | 2773.5 | 2712.0 | 2636.3 | 2609.9 |
| 7.5° | 3126.0 | 3134.7 | 3123.8 | 3123.8 | 3109.5 | 3045.8 | 2999.7 | 2963.5 | 2858.1 | 2760.3 | 2715.3 |
| 10° | 2975.5 | 2995.3 | 3038.1 | 3057.9 | 3086.4 | 3077.7 | 3067.8 | 3053.5 | 2982.1 | 2869.0 | 2817.4 |
| 12.5° | 2645.0 | 2669.2 | 2754.8 | 2766.9 | 2864.6 | 2959.1 | 2989.8 | 3024.9 | 3031.5 | 2936.0 | 2880.0 |
| 15° | 2198.2 | 2265.1 | 2343.1 | 2380.4 | 2504.5 | 2703.2 | 2784.5 | 2880.0 | 2993.1 | 2953.6 | 2909.7 |
| 17.5° | 1810.6 | 1835.8 | 1919.3 | 1998.3 | 2122.4 | 2351.9 | 2502.3 | 2645.0 | 2887.7 | 2927.2 | 2899.8 |
| 20° | 1490.0 | 1513.0 | 1622.8 | 1617.3 | 1782.0 | 2040.1 | 2190.5 | 2355.2 | 2713.1 | 2841.6 | 2836.1 |
| 22.5° | 1251.7 | 1287.9 | 1349.4 | 1383.5 | 1502.0 | 1731.5 | 1874.3 | 2079.6 | 2514.4 | 2717.5 | 2739.5 |
| 25° | 1095.8 | 1122.1 | 1159.5 | 1189.1 | 1281.3 | 1470.2 | 1620.6 | 1789.7 | 2264.0 | 2555.0 | 2609.9 |
| 27.5° | 989.3 | 1000.3 | 1037.6 | 1055.2 | 1116.7 | 1279.2 | 1395.5 | 1550.4 | 2032.4 | 2372.7 | 2449.6 |
| 30° | 905.8 | 913.5 | 946.5 | 952.0 | 1000.3 | 1117.7 | 1230.8 | 1357.1 | 1806.2 | 2185.0 | 2272.8 |
| 32.5° | 847.6 | 853.1 | 878.4 | 880.6 | 916.8 | 1002.5 | 1081.5 | 1200.1 | 1592.1 | 1984.1 | 2092.8 |
| 35° | 794.9 | 798.2 | 816.9 | 822.4 | 845.4 | 910.2 | 975.0 | 1066.1 | 1421.9 | 1802.9 | 1922.6 |
| 37.5° | 748.8 | 753.2 | 764.2 | 770.8 | 789.5 | 841.1 | 885.0 | 960.7 | 1258.3 | 1614.0 | 1746.9 |
| 40° | 703.8 | 711.5 | 719.2 | 719.2 | 740.0 | 779.6 | 815.8 | 878.4 | 1117.7 | 1449.3 | 1566.8 |
| 42.5° | 665.4 | 673.1 | 676.4 | 677.5 | 688.4 | 724.7 | 755.4 | 798.2 | 1011.2 | 1303.3 | 1418.6 |
| 45° | 628.0 | 631.3 | 634.6 | 636.8 | 644.5 | 676.4 | 699.4 | 740.0 | 910.2 | 1168.3 | 1280.3 |
| 47.5° | 594.0 | 594.0 | 596.2 | 599.5 | 605.0 | 628.0 | 647.8 | 677.5 | 823.5 | 1047.5 | 1139.7 |
| 50° | 561.1 | 561.1 | 557.8 | 560.0 | 563.3 | 580.8 | 600.6 | 624.8 | 742.2 | 936.6 | 1018.9 |
| 52.5° | 521.5 | 521.5 | 522.6 | 519.3 | 522.6 | 538.0 | 553.4 | 577.5 | 673.1 | 834.5 | 904.7 |
| 55° | 482.0 | 486.4 | 483.1 | 480.9 | 485.3 | 495.2 | 506.2 | 527.0 | 608.3 | 753.2 | 809.2 |
| 57.5° | 442.5 | 444.7 | 443.6 | 446.9 | 444.7 | 453.5 | 463.3 | 477.6 | 550.1 | 662.1 | 714.8 |
| 60° | 405.2 | 405.2 | 403.0 | 405.2 | 405.2 | 409.5 | 417.2 | 431.5 | 490.8 | 584.1 | 628.0 |
| 62.5° | 363.4 | 364.5 | 365.6 | 364.5 | 363.4 | 368.9 | 375.5 | 385.4 | 439.2 | 508.4 | 541.3 |
| 65° | 321.7 | 322.8 | 326.1 | 325.0 | 323.9 | 329.4 | 330.5 | 341.5 | 382.1 | 441.4 | 465.5 |
| 67.5° | 284.4 | 282.2 | 283.3 | 285.5 | 286.6 | 287.7 | 289.9 | 300.8 | 329.4 | 377.7 | 397.5 |
| 70° | 240.5 | 242.7 | 241.6 | 244.9 | 242.7 | 245.9 | 248.1 | 255.8 | 283.3 | 315.1 | 328.3 |
| 72.5° | 200.9 | 202.0 | 202.0 | 205.3 | 204.2 | 207.5 | 209.7 | 213.0 | 232.8 | 261.3 | 266.8 |
| 75° | 164.7 | 164.7 | 166.9 | 168.0 | 168.0 | 168.0 | 170.2 | 172.4 | 188.9 | 206.4 | 211.9 |
| 77.5° | 125.2 | 130.7 | 129.6 | 130.7 | 131.8 | 135.1 | 132.9 | 137.2 | 147.1 | 157.0 | 160.3 |
| 80° | 91.1 | 91.1 | 92.2 | 93.3 | 95.5 | 97.7 | 97.7 | 102.1 | 106.5 | 112.0 | 115.3 |
| 82.5° | 58.2 | 59.3 | 62.6 | 63.7 | 64.8 | 68.1 | 68.1 | 68.1 | 73.6 | 75.8 | 75.8 |
| 85° | 36.2 | 34.0 | 36.2 | 37.3 | 38.4 | 39.5 | 39.5 | 41.7 | 42.8 | 43.9 | 43.9 |
| 87.5° | 17.6 | 17.6 | 17.6 | 17.6 | 18.7 | 18.7 | 18.7 | 18.7 | 19.8 | 19.8 | 19.8 |
| 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: P646619

CATALOG NUMBER: S123DRP-S1000D935-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 | 2366.2 |
| 2.5° | 2421.1 | 2380.4 | 2320.0 | 2270.6 | 2272.8 | 2227.8 | 2194.9 | 2152.1 | 2138.9 | 2125.7 | 2108.1 |
| 5° | 2471.6 | 2378.2 | 2253.1 | 2153.1 | 2122.4 | 2047.7 | 1953.3 | 1907.2 | 1879.8 | 1831.4 | 1812.8 |
| 7.5° | 2534.2 | 2362.9 | 2171.8 | 2015.9 | 1981.9 | 1857.8 | 1745.8 | 1690.9 | 1639.3 | 1605.3 | 1563.5 |
| 10° | 2574.8 | 2335.4 | 2089.5 | 1883.0 | 1850.1 | 1708.5 | 1562.4 | 1522.9 | 1458.1 | 1416.4 | 1376.9 |
| 12.5° | 2605.5 | 2314.6 | 2004.9 | 1764.5 | 1710.7 | 1573.4 | 1426.3 | 1372.5 | 1325.3 | 1264.9 | 1236.3 |
| 15° | 2633.0 | 2275.0 | 1918.2 | 1640.4 | 1584.4 | 1436.2 | 1300.0 | 1251.7 | 1208.9 | 1156.2 | 1130.9 |
| 17.5° | 2623.1 | 2226.7 | 1822.7 | 1530.6 | 1474.6 | 1328.6 | 1197.9 | 1143.0 | 1114.5 | 1068.3 | 1050.8 |
| 20° | 2611.0 | 2185.0 | 1732.6 | 1426.3 | 1364.8 | 1228.6 | 1101.3 | 1061.8 | 1033.2 | 1003.6 | 988.2 |
| 22.5° | 2572.6 | 2119.1 | 1641.5 | 1330.8 | 1272.6 | 1136.4 | 1027.7 | 994.8 | 972.8 | 952.0 | 938.8 |
| 25° | 2507.8 | 2060.9 | 1552.6 | 1235.2 | 1189.1 | 1061.8 | 969.5 | 938.8 | 924.5 | 903.6 | 891.6 |
| 27.5° | 2427.6 | 1984.1 | 1463.6 | 1157.3 | 1104.6 | 991.5 | 912.4 | 892.7 | 877.3 | 860.8 | 848.7 |
| 30° | 2326.6 | 1898.4 | 1376.9 | 1081.5 | 1033.2 | 933.3 | 865.2 | 847.6 | 833.4 | 816.9 | 802.6 |
| 32.5° | 2198.2 | 1811.7 | 1295.6 | 1011.2 | 970.6 | 883.9 | 821.3 | 807.0 | 794.9 | 775.2 | 767.5 |
| 35° | 2054.3 | 1718.3 | 1215.5 | 944.3 | 905.8 | 830.1 | 778.5 | 764.2 | 752.1 | 735.7 | 729.1 |
| 37.5° | 1908.3 | 1607.5 | 1136.4 | 887.2 | 853.1 | 785.1 | 735.7 | 721.4 | 710.4 | 696.1 | 692.8 |
| 40° | 1753.5 | 1505.3 | 1058.5 | 829.0 | 799.3 | 741.1 | 692.8 | 681.8 | 670.9 | 662.1 | 659.9 |
| 42.5° | 1597.6 | 1387.9 | 990.4 | 780.7 | 748.8 | 695.0 | 651.1 | 639.0 | 632.4 | 628.0 | 629.1 |
| 45° | 1450.4 | 1270.4 | 920.1 | 724.7 | 702.7 | 653.3 | 612.7 | 602.8 | 597.3 | 594.0 | 598.4 |
| 47.5° | 1291.2 | 1150.7 | 854.2 | 677.5 | 655.5 | 611.6 | 573.1 | 564.4 | 562.2 | 561.1 | 568.8 |
| 50° | 1150.7 | 1026.6 | 782.9 | 629.1 | 610.5 | 565.5 | 534.7 | 527.0 | 524.8 | 528.1 | 539.1 |
| 52.5° | 1017.8 | 911.3 | 718.1 | 584.1 | 565.5 | 524.8 | 496.3 | 490.8 | 489.7 | 497.4 | 508.4 |
| 55° | 886.1 | 803.7 | 647.8 | 534.7 | 516.1 | 480.9 | 459.0 | 453.5 | 452.4 | 467.7 | 477.6 |
| 57.5° | 774.1 | 699.4 | 581.9 | 487.5 | 473.2 | 440.3 | 420.5 | 416.1 | 419.4 | 433.7 | 443.6 |
| 60° | 664.3 | 603.9 | 521.5 | 437.0 | 426.0 | 397.5 | 382.1 | 381.0 | 384.3 | 400.8 | 410.6 |
| 62.5° | 565.5 | 519.3 | 456.8 | 390.9 | 383.2 | 357.9 | 343.7 | 345.9 | 349.2 | 365.6 | 374.4 |
| 65° | 480.9 | 440.3 | 393.1 | 344.8 | 334.9 | 317.3 | 307.4 | 308.5 | 315.1 | 329.4 | 338.2 |
| 67.5° | 398.6 | 365.6 | 339.3 | 300.8 | 293.2 | 277.8 | 270.1 | 274.5 | 277.8 | 292.1 | 300.8 |
| 70° | 329.4 | 303.0 | 283.3 | 254.7 | 249.2 | 236.1 | 230.6 | 236.1 | 239.4 | 251.4 | 262.4 |
| 72.5° | 264.6 | 248.1 | 232.8 | 211.9 | 206.4 | 197.6 | 196.5 | 198.7 | 204.2 | 216.3 | 220.7 |
| 75° | 205.3 | 196.5 | 183.4 | 170.2 | 166.9 | 162.5 | 161.4 | 163.6 | 169.1 | 175.7 | 180.1 |
| 77.5° | 155.9 | 148.2 | 138.3 | 132.9 | 128.5 | 126.3 | 127.4 | 130.7 | 132.9 | 139.4 | 142.7 |
| 80° | 113.1 | 104.3 | 102.1 | 94.4 | 93.3 | 92.2 | 94.4 | 95.5 | 98.8 | 103.2 | 105.4 |
| 82.5° | 74.7 | 68.1 | 65.9 | 64.8 | 63.7 | 62.6 | 65.9 | 67.0 | 69.2 | 72.5 | 73.6 |
| 85° | 40.6 | 38.4 | 38.4 | 37.3 | 38.4 | 40.6 | 40.6 | 41.7 | 41.7 | 42.8 | 41.7 |
| 87.5° | 18.7 | 16.5 | 17.6 | 17.6 | 17.6 | 18.7 | 18.7 | 19.8 | 19.8 | 19.8 | 18.7 |
| 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: P646619

CATALOG NUMBER: S123DRP-S1000D935-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° |
|-------|--------|--------|--------|
| 0° | 2366.2 | 2366.2 | 2366.2 |
| 2.5° | 2107.0 | 2099.3 | 2068.6 |
| 5° | 1796.3 | 1770.0 | 1761.2 |
| 7.5° | 1559.1 | 1556.9 | 1510.8 |
| 10° | 1358.2 | 1361.5 | 1319.8 |
| 12.5° | 1231.9 | 1204.5 | 1201.2 |
| 15° | 1124.3 | 1099.1 | 1094.7 |
| 17.5° | 1044.2 | 1028.8 | 1024.4 |
| 20° | 983.8 | 975.0 | 967.3 |
| 22.5° | 935.5 | 924.5 | 917.9 |
| 25° | 887.2 | 877.3 | 875.1 |
| 27.5° | 845.4 | 833.4 | 833.4 |
| 30° | 802.6 | 794.9 | 791.6 |
| 32.5° | 764.2 | 757.6 | 757.6 |
| 35° | 726.9 | 723.6 | 719.2 |
| 37.5° | 692.8 | 692.8 | 690.6 |
| 40° | 659.9 | 663.2 | 663.2 |
| 42.5° | 631.3 | 634.6 | 634.6 |
| 45° | 600.6 | 606.1 | 608.3 |
| 47.5° | 569.9 | 578.6 | 580.8 |
| 50° | 542.4 | 549.0 | 550.1 |
| 52.5° | 512.8 | 520.4 | 525.9 |
| 55° | 482.0 | 489.7 | 493.0 |
| 57.5° | 449.1 | 456.8 | 457.9 |
| 60° | 412.8 | 420.5 | 422.7 |
| 62.5° | 379.9 | 384.3 | 386.5 |
| 65° | 339.3 | 345.9 | 350.3 |
| 67.5° | 301.9 | 307.4 | 307.4 |
| 70° | 261.3 | 263.5 | 266.8 |
| 72.5° | 222.9 | 224.0 | 224.0 |
| 75° | 181.2 | 183.4 | 184.5 |
| 77.5° | 142.7 | 143.8 | 143.8 |
| 80° | 105.4 | 104.3 | 104.3 |
| 82.5° | 73.6 | 70.3 | 70.3 |
| 85° | 41.7 | 40.6 | 41.7 |
| 87.5° | 18.7 | 18.7 | 18.7 |
| 90° | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P646619
 CATALOG NUMBER: S123DRP-S1000D935-X4F0-XX-UDD-G-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 | 19.13 | 20.64 | 19.49 | 20.95 | 21.27 | 21.58 | 23.09 | 21.95 | 23.40 | 23.72 |
| | 3H | 20.82 | 22.18 | 21.20 | 22.50 | 22.87 | 22.80 | 24.15 | 23.17 | 24.48 | 24.84 |
| | 4H | 21.42 | 22.69 | 21.82 | 23.04 | 23.42 | 23.22 | 24.49 | 23.62 | 24.84 | 25.22 |
| | 6H | 21.83 | 23.00 | 22.24 | 23.37 | 23.76 | 23.49 | 24.66 | 23.90 | 25.03 | 25.42 |
| | 8H | 21.93 | 23.05 | 22.36 | 23.44 | 23.84 | 23.56 | 24.68 | 23.98 | 25.07 | 25.47 |
| | 12H | 21.99 | 23.06 | 22.42 | 23.44 | 23.87 | 23.59 | 24.66 | 24.02 | 25.05 | 25.48 |
| 4H | 2H | 19.78 | 21.05 | 20.18 | 21.40 | 21.78 | 21.80 | 23.07 | 22.20 | 23.42 | 23.80 |
| | 3H | 21.66 | 22.72 | 22.07 | 23.12 | 23.52 | 23.29 | 24.34 | 23.70 | 24.74 | 25.15 |
| | 4H | 22.38 | 23.34 | 22.82 | 23.75 | 24.19 | 23.85 | 24.80 | 24.28 | 25.22 | 25.66 |
| | 6H | 22.90 | 23.72 | 23.35 | 24.17 | 24.63 | 24.25 | 25.08 | 24.70 | 25.52 | 25.98 |
| | 8H | 23.03 | 23.81 | 23.50 | 24.25 | 24.72 | 24.35 | 25.13 | 24.81 | 25.57 | 26.04 |
| | 12H | 23.12 | 23.81 | 23.60 | 24.29 | 24.76 | 24.42 | 25.11 | 24.90 | 25.59 | 26.06 |
| 8H | 4H | 22.71 | 23.48 | 23.17 | 23.93 | 24.39 | 24.02 | 24.79 | 24.48 | 25.24 | 25.70 |
| | 6H | 23.32 | 23.96 | 23.82 | 24.45 | 24.93 | 24.51 | 25.15 | 25.01 | 25.64 | 26.12 |
| | 8H | 23.52 | 24.09 | 24.03 | 24.60 | 25.09 | 24.67 | 25.24 | 25.19 | 25.75 | 26.24 |
| | 12H | 23.66 | 24.17 | 24.17 | 24.66 | 25.23 | 24.79 | 25.30 | 25.30 | 25.79 | 26.35 |
| 12H | 4H | 22.74 | 23.43 | 23.22 | 23.91 | 24.38 | 24.02 | 24.71 | 24.50 | 25.19 | 25.66 |
| | 6H | 23.37 | 23.95 | 23.89 | 24.46 | 24.95 | 24.53 | 25.10 | 25.04 | 25.61 | 26.10 |
| | 8H | 23.62 | 24.13 | 24.13 | 24.62 | 25.19 | 24.74 | 25.24 | 25.25 | 25.74 | 26.30 |