

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: P646665

Luminaire Tested: S123RDRP-S1000D940-X4F0-XX-UDD-G-W

Issue Date: 3/20/2023

Test Information

Test Method: LM-79-2024
Report Number: P646665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D940-X4F0-XX-UDD-G-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH WALL GRAZE FLUSH OPTIC
STANDARD LIGHT ENGINE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

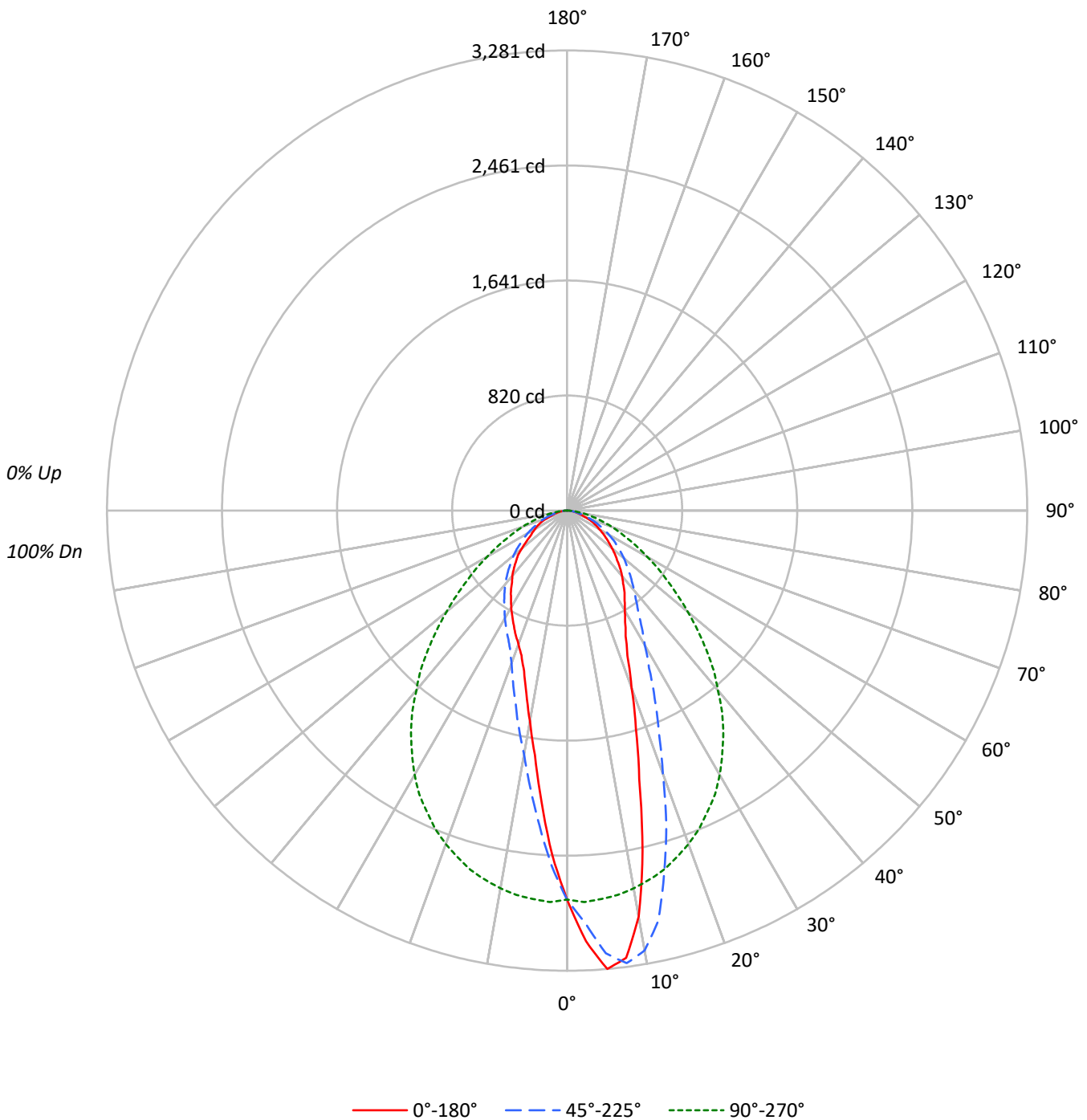
Lumens per Lamp: N/A
Luminaire Lumens: 3674.5 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.79
Luminous Opening: Rectangular (W 4' x L: 0.22' x H: 0')
CIE Type: Direct

Input Watts (W): 34.5
Input Voltage (V): 120
Input Current (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: P646665

CATALOG NUMBER: S123RDRP-S1000D940-X4F0-XX-UDD-G-W

Luminous Intensity Polar Plot



TEST NUMBER: P646665

CATALOG NUMBER: S123RDRP-S1000D940-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 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | | | | | 87 | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | | | | | 76 | | | | |
| 3 | 94 | 85 | 78 | 73 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | | | | | 67 | | | | |
| 4 | 88 | 77 | 69 | 64 | 85 | 76 | 69 | 63 | 73 | 67 | 62 | 71 | 66 | 62 | 69 | 65 | 61 | | | | | 59 | | | | |
| 5 | 82 | 70 | 62 | 56 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 63 | 58 | 54 | | | | | 53 | | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | | | | | 47 | | | | |
| 7 | 71 | 59 | 51 | 46 | 70 | 58 | 51 | 46 | 57 | 50 | 45 | 56 | 50 | 45 | 54 | 49 | 45 | | | | | 43 | | | | |
| 8 | 67 | 55 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | | | | | 39 | | | | |
| 9 | 63 | 51 | 43 | 38 | 62 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | | | | | 36 | | | | |
| 10 | 60 | 47 | 40 | 36 | 58 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | | | | | 33 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 33418 | 33418 | 33418 | 33418 | 33418 |
| 5° | 39681 | 38332 | 33628 | 27275 | 25239 |
| 10° | 35951 | 38956 | 33460 | 21594 | 18685 |
| 15° | 24753 | 33364 | 33108 | 17731 | 14781 |
| 20° | 17221 | 25590 | 32443 | 14859 | 12992 |
| 25° | 13122 | 19639 | 31475 | 13274 | 11973 |
| 30° | 11423 | 15442 | 30267 | 12341 | 11090 |
| 35° | 10488 | 12997 | 28552 | 11509 | 10286 |
| 40° | 9570 | 11662 | 26310 | 10803 | 9551 |
| 45° | 8643 | 10677 | 23892 | 10037 | 8817 |
| 50° | 7845 | 9912 | 21040 | 9337 | 7909 |
| 55° | 7094 | 9102 | 18299 | 8529 | 6785 |
| 60° | 6357 | 8275 | 15893 | 7810 | 6413 |
| 65° | 5868 | 7359 | 13682 | 6940 | 6061 |
| 70° | 4767 | 6288 | 11939 | 6288 | 4929 |
| 75° | 4181 | 5084 | 10112 | 5242 | 4339 |
| 80° | 3789 | 4260 | 8285 | 4420 | 4101 |
| 85° | 3456 | 3622 | 6290 | 3926 | 3774 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 25209 cd/sqm



TEST NUMBER: P646665

CATALOG NUMBER: S123RDRP-S1000D940-X4F0-XX-UDD-G-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 252.8 | 6.9 |
| 10°-20° | 584.8 | 15.9 |
| 20°-30° | 671.0 | 18.3 |
| 30°-40° | 660.9 | 18.0 |
| 40°-50° | 582.6 | 15.9 |
| 50°-60° | 448.3 | 12.2 |
| 60°-70° | 294.8 | 8.0 |
| 70°-80° | 143.2 | 3.9 |
| 80°-90° | 36.1 | 1.0 |
| 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° | 1508.6 | 41.1 |
| 0°-40° | 2169.5 | 59.0 |
| 0°-60° | 3200.4 | 87.1 |
| 0°-90° | 3674.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3674.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2774 | 2774 | 2774 | 2774 | 2774 | |
| 5° | 3281 | 3169 | 2780 | 2255 | 2087 | 300 |
| 15° | 1984 | 2675 | 2654 | 1421 | 1185 | 560 |
| 25° | 987 | 1477 | 2368 | 998 | 901 | 466 |
| 35° | 713 | 884 | 1941 | 782 | 699 | 444 |
| 45° | 507 | 627 | 1402 | 589 | 517 | 394 |
| 55° | 338 | 433 | 871 | 406 | 323 | 303 |
| 65° | 206 | 258 | 480 | 243 | 213 | 202 |
| 75° | 90 | 109 | 217 | 113 | 93 | 97 |
| 85° | 25 | 26 | 46 | 28 | 27 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P646665

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CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 |
| 2.5° | 3073.7 | 3054.4 | 3048.7 | 3041.9 | 3030.5 | 2989.6 | 2942.9 | 2947.5 | 2941.8 | 2906.6 | 2887.2 |
| 5° | 3280.7 | 3283.0 | 3277.3 | 3272.7 | 3253.4 | 3203.4 | 3169.2 | 3148.8 | 3105.6 | 3039.6 | 3019.1 |
| 7.5° | 3217.0 | 3253.4 | 3260.2 | 3268.2 | 3278.4 | 3267.0 | 3254.5 | 3246.6 | 3211.3 | 3139.7 | 3106.7 |
| 10° | 2938.4 | 2936.1 | 2977.1 | 3010.0 | 3098.7 | 3161.3 | 3184.0 | 3217.0 | 3246.6 | 3196.5 | 3160.1 |
| 12.5° | 2483.5 | 2486.9 | 2621.1 | 2621.1 | 2736.0 | 2895.2 | 2997.5 | 3066.9 | 3194.3 | 3197.7 | 3176.1 |
| 15° | 1984.3 | 2040.0 | 2159.5 | 2184.5 | 2332.3 | 2546.1 | 2674.6 | 2817.9 | 3064.6 | 3141.9 | 3137.4 |
| 17.5° | 1629.5 | 1653.4 | 1768.3 | 1801.2 | 1932.0 | 2174.2 | 2351.6 | 2524.5 | 2870.2 | 3032.8 | 3062.3 |
| 20° | 1343.0 | 1364.6 | 1447.6 | 1472.6 | 1604.5 | 1835.4 | 1995.7 | 2182.2 | 2634.8 | 2883.8 | 2936.1 |
| 22.5° | 1121.2 | 1163.3 | 1219.0 | 1257.7 | 1332.7 | 1568.1 | 1705.7 | 1884.3 | 2361.9 | 2716.7 | 2778.1 |
| 25° | 987.0 | 1006.4 | 1054.1 | 1072.3 | 1163.3 | 1319.1 | 1477.2 | 1634.1 | 2119.6 | 2507.4 | 2615.4 |
| 27.5° | 896.1 | 901.8 | 937.0 | 952.9 | 1007.5 | 1151.9 | 1265.6 | 1411.2 | 1872.9 | 2292.5 | 2418.7 |
| 30° | 821.0 | 831.3 | 858.5 | 862.0 | 909.7 | 1012.1 | 1109.9 | 1244.0 | 1656.8 | 2084.4 | 2214.0 |
| 32.5° | 763.0 | 768.7 | 791.5 | 798.3 | 829.0 | 909.7 | 989.3 | 1087.1 | 1456.7 | 1867.2 | 2016.2 |
| 35° | 713.0 | 714.1 | 731.2 | 740.3 | 767.6 | 834.7 | 883.6 | 965.4 | 1296.4 | 1687.5 | 1818.3 |
| 37.5° | 656.1 | 664.1 | 676.6 | 684.6 | 708.4 | 763.0 | 807.4 | 871.1 | 1148.5 | 1517.0 | 1638.6 |
| 40° | 608.4 | 615.2 | 630.0 | 633.4 | 655.0 | 705.0 | 741.4 | 798.3 | 1021.2 | 1353.2 | 1477.2 |
| 42.5° | 560.6 | 565.2 | 579.9 | 586.8 | 610.7 | 650.5 | 683.4 | 727.8 | 920.0 | 1207.7 | 1329.3 |
| 45° | 507.2 | 518.5 | 534.5 | 537.9 | 560.6 | 601.6 | 626.6 | 667.5 | 829.0 | 1081.4 | 1189.5 |
| 47.5° | 462.8 | 468.5 | 482.2 | 487.8 | 514.0 | 550.4 | 576.5 | 611.8 | 750.5 | 966.6 | 1072.3 |
| 50° | 418.5 | 420.7 | 433.3 | 441.2 | 461.7 | 503.8 | 528.8 | 560.6 | 678.9 | 873.3 | 947.2 |
| 52.5° | 376.4 | 382.1 | 394.6 | 400.3 | 413.9 | 457.1 | 479.9 | 512.9 | 610.7 | 777.8 | 851.7 |
| 55° | 337.7 | 341.1 | 350.2 | 357.1 | 373.0 | 410.5 | 433.3 | 461.7 | 551.5 | 690.3 | 755.1 |
| 57.5° | 301.3 | 305.9 | 312.7 | 318.4 | 333.2 | 366.2 | 388.9 | 417.3 | 495.8 | 610.7 | 660.7 |
| 60° | 263.8 | 269.5 | 277.5 | 279.7 | 293.4 | 323.0 | 343.4 | 368.4 | 438.9 | 536.7 | 581.1 |
| 62.5° | 236.5 | 237.7 | 244.5 | 247.9 | 255.9 | 279.7 | 301.3 | 325.2 | 387.8 | 465.1 | 501.5 |
| 65° | 205.8 | 209.2 | 212.6 | 214.9 | 221.7 | 242.2 | 258.1 | 276.3 | 337.7 | 404.8 | 429.8 |
| 67.5° | 174.0 | 177.4 | 183.1 | 185.4 | 191.0 | 204.7 | 218.3 | 236.5 | 287.7 | 344.6 | 367.3 |
| 70° | 135.3 | 135.3 | 144.4 | 149.0 | 158.1 | 168.3 | 178.5 | 194.5 | 238.8 | 287.7 | 304.8 |
| 72.5° | 110.3 | 111.4 | 112.6 | 112.6 | 120.5 | 137.6 | 143.3 | 153.5 | 188.8 | 235.4 | 250.2 |
| 75° | 89.8 | 91.0 | 92.1 | 93.2 | 94.4 | 100.1 | 109.2 | 118.3 | 144.4 | 178.5 | 192.2 |
| 77.5° | 71.6 | 72.8 | 73.9 | 73.9 | 76.2 | 78.5 | 80.7 | 85.3 | 103.5 | 128.5 | 139.9 |
| 80° | 54.6 | 55.7 | 56.9 | 56.9 | 58.0 | 60.3 | 61.4 | 63.7 | 69.4 | 86.4 | 92.1 |
| 82.5° | 39.8 | 39.8 | 39.8 | 40.9 | 42.1 | 42.1 | 44.3 | 44.3 | 47.8 | 52.3 | 55.7 |
| 85° | 25.0 | 25.0 | 26.2 | 26.2 | 26.2 | 27.3 | 26.2 | 27.3 | 28.4 | 29.6 | 31.8 |
| 87.5° | 11.4 | 10.2 | 11.4 | 11.4 | 11.4 | 12.5 | 12.5 | 12.5 | 12.5 | 13.6 | 13.6 |
| 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: P646665

CATALOG NUMBER: S123RDRP-S1000D940-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (continued):

| | 80° | 90° | 100° | 110° | 112.5° | 120° | 130° | 135° | 140° | 150° | 157.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 | 2773.5 |
| 2.5° | 2833.8 | 2794.0 | 2726.9 | 2684.8 | 2668.9 | 2620.0 | 2573.4 | 2534.7 | 2515.4 | 2513.1 | 2477.9 |
| 5° | 2889.5 | 2780.3 | 2641.6 | 2525.6 | 2498.3 | 2413.0 | 2302.7 | 2255.0 | 2192.4 | 2167.4 | 2137.8 |
| 7.5° | 2935.0 | 2764.4 | 2559.7 | 2384.6 | 2333.4 | 2204.9 | 2063.9 | 2001.4 | 1953.6 | 1878.6 | 1834.2 |
| 10° | 2966.8 | 2734.8 | 2459.7 | 2233.4 | 2160.6 | 2010.5 | 1839.9 | 1764.9 | 1720.5 | 1634.1 | 1598.8 |
| 12.5° | 2979.3 | 2697.3 | 2359.6 | 2076.4 | 2012.8 | 1834.2 | 1667.1 | 1589.7 | 1523.8 | 1445.3 | 1411.2 |
| 15° | 2974.8 | 2654.1 | 2257.2 | 1932.0 | 1852.4 | 1671.6 | 1494.2 | 1421.4 | 1360.0 | 1281.6 | 1237.2 |
| 17.5° | 2944.1 | 2592.7 | 2145.8 | 1792.2 | 1716.0 | 1529.5 | 1349.8 | 1282.7 | 1228.1 | 1151.9 | 1117.8 |
| 20° | 2892.9 | 2530.2 | 2048.0 | 1664.8 | 1578.4 | 1399.8 | 1230.4 | 1158.8 | 1111.0 | 1070.1 | 1045.0 |
| 22.5° | 2822.4 | 2456.2 | 1928.6 | 1538.6 | 1463.5 | 1283.8 | 1121.2 | 1063.2 | 1034.8 | 1001.8 | 983.6 |
| 25° | 2715.5 | 2367.5 | 1820.6 | 1432.8 | 1357.8 | 1179.2 | 1037.1 | 998.4 | 970.0 | 948.4 | 929.1 |
| 27.5° | 2600.7 | 2282.3 | 1712.5 | 1325.9 | 1255.4 | 1084.8 | 971.1 | 941.6 | 916.5 | 889.3 | 872.2 |
| 30° | 2467.6 | 2175.4 | 1610.2 | 1231.5 | 1163.3 | 1008.7 | 914.3 | 887.0 | 866.5 | 836.9 | 819.9 |
| 32.5° | 2310.7 | 2058.2 | 1514.7 | 1140.6 | 1076.9 | 942.7 | 862.0 | 832.4 | 815.3 | 786.9 | 769.9 |
| 35° | 2148.1 | 1941.1 | 1410.1 | 1056.4 | 998.4 | 884.7 | 810.8 | 782.4 | 764.2 | 735.7 | 718.7 |
| 37.5° | 1988.9 | 1816.0 | 1316.8 | 982.5 | 930.2 | 826.7 | 757.3 | 733.5 | 716.4 | 686.8 | 666.4 |
| 40° | 1820.6 | 1672.7 | 1225.8 | 913.1 | 864.2 | 775.5 | 708.4 | 686.8 | 664.1 | 637.9 | 617.5 |
| 42.5° | 1644.3 | 1546.5 | 1141.7 | 851.7 | 806.2 | 725.5 | 659.5 | 636.8 | 617.5 | 586.8 | 577.7 |
| 45° | 1479.4 | 1402.1 | 1053.0 | 786.9 | 750.5 | 675.5 | 611.8 | 589.0 | 567.4 | 541.3 | 532.2 |
| 47.5° | 1332.7 | 1261.1 | 972.3 | 730.1 | 693.7 | 626.6 | 564.0 | 540.1 | 524.2 | 503.8 | 490.1 |
| 50° | 1181.5 | 1122.4 | 883.6 | 674.3 | 640.2 | 574.3 | 514.0 | 498.1 | 479.9 | 454.9 | 444.6 |
| 52.5° | 1040.5 | 995.0 | 810.8 | 620.9 | 589.0 | 529.9 | 468.5 | 452.6 | 435.5 | 413.9 | 399.1 |
| 55° | 916.5 | 871.1 | 727.8 | 560.6 | 536.7 | 481.0 | 426.4 | 406.0 | 392.3 | 367.3 | 349.1 |
| 57.5° | 789.2 | 767.6 | 648.2 | 510.6 | 487.8 | 432.1 | 383.2 | 367.3 | 350.2 | 323.0 | 304.8 |
| 60° | 684.6 | 659.5 | 574.3 | 456.0 | 434.4 | 387.8 | 340.0 | 324.1 | 308.2 | 282.0 | 274.1 |
| 62.5° | 585.6 | 567.4 | 502.6 | 404.8 | 386.6 | 341.1 | 299.1 | 284.3 | 268.4 | 251.3 | 245.6 |
| 65° | 495.8 | 479.9 | 431.0 | 352.5 | 337.7 | 297.9 | 259.3 | 243.4 | 233.1 | 225.2 | 219.5 |
| 67.5° | 411.6 | 402.6 | 365.0 | 303.6 | 292.2 | 257.0 | 222.9 | 210.4 | 204.7 | 195.6 | 191.0 |
| 70° | 335.5 | 338.9 | 304.8 | 259.3 | 246.8 | 218.3 | 188.8 | 178.5 | 171.7 | 163.7 | 154.7 |
| 72.5° | 274.1 | 272.9 | 252.4 | 211.5 | 202.4 | 179.7 | 156.9 | 150.1 | 142.1 | 126.2 | 116.0 |
| 75° | 212.6 | 217.2 | 197.9 | 175.1 | 166.0 | 143.3 | 121.7 | 112.6 | 104.6 | 98.9 | 95.5 |
| 77.5° | 162.6 | 164.9 | 155.8 | 134.2 | 126.2 | 106.9 | 89.8 | 85.3 | 81.9 | 78.5 | 77.3 |
| 80° | 116.0 | 119.4 | 110.3 | 96.7 | 89.8 | 73.9 | 64.8 | 63.7 | 62.5 | 60.3 | 59.1 |
| 82.5° | 75.1 | 79.6 | 75.1 | 60.3 | 56.9 | 48.9 | 46.6 | 46.6 | 45.5 | 44.3 | 43.2 |
| 85° | 40.9 | 45.5 | 43.2 | 35.3 | 33.0 | 30.7 | 29.6 | 28.4 | 28.4 | 28.4 | 28.4 |
| 87.5° | 15.9 | 21.6 | 18.2 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| 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: P646665

CATALOG NUMBER: S123RDRP-S1000D940-X4F0-XX-UDD-G-W

CANDELA DISTRIBUTION (continued):

| | 160° | 170° | 180° |
|-------|--------|--------|--------|
| 0° | 2773.5 | 2773.5 | 2773.5 |
| 2.5° | 2469.9 | 2458.5 | 2454.0 |
| 5° | 2129.9 | 2094.6 | 2086.7 |
| 7.5° | 1820.6 | 1805.8 | 1756.9 |
| 10° | 1593.1 | 1547.7 | 1527.2 |
| 12.5° | 1388.5 | 1346.4 | 1339.6 |
| 15° | 1224.7 | 1195.1 | 1184.9 |
| 17.5° | 1116.7 | 1096.2 | 1083.7 |
| 20° | 1037.1 | 1022.3 | 1013.2 |
| 22.5° | 976.8 | 965.4 | 958.6 |
| 25° | 923.4 | 906.3 | 900.6 |
| 27.5° | 868.8 | 854.0 | 848.3 |
| 30° | 817.6 | 805.1 | 797.1 |
| 32.5° | 764.2 | 749.4 | 744.8 |
| 35° | 713.0 | 703.9 | 699.3 |
| 37.5° | 663.0 | 651.6 | 644.8 |
| 40° | 616.3 | 610.7 | 607.2 |
| 42.5° | 574.3 | 564.0 | 562.9 |
| 45° | 529.9 | 519.7 | 517.4 |
| 47.5° | 487.8 | 478.7 | 477.6 |
| 50° | 443.5 | 431.0 | 421.9 |
| 52.5° | 390.0 | 378.7 | 370.7 |
| 55° | 342.3 | 329.8 | 323.0 |
| 57.5° | 302.5 | 296.8 | 293.4 |
| 60° | 271.8 | 268.4 | 266.1 |
| 62.5° | 244.5 | 241.1 | 241.1 |
| 65° | 219.5 | 216.1 | 212.6 |
| 67.5° | 188.8 | 181.9 | 180.8 |
| 70° | 151.2 | 141.0 | 139.9 |
| 72.5° | 114.9 | 113.7 | 111.4 |
| 75° | 95.5 | 93.2 | 93.2 |
| 77.5° | 77.3 | 75.1 | 75.1 |
| 80° | 59.1 | 58.0 | 59.1 |
| 82.5° | 43.2 | 43.2 | 42.1 |
| 85° | 28.4 | 27.3 | 27.3 |
| 87.5° | 13.6 | 13.6 | 13.6 |
| 90° | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P646665
 CATALOG NUMBER: S123RDRP-S1000D940-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 | 16.89 | 18.35 | 17.26 | 18.66 | 18.97 | 21.99 | 23.44 | 22.35 | 23.75 | 24.07 |
| | 3H | 18.23 | 19.53 | 18.60 | 19.86 | 20.22 | 23.26 | 24.57 | 23.64 | 24.89 | 25.26 |
| | 4H | 18.62 | 19.84 | 19.02 | 20.19 | 20.57 | 23.71 | 24.93 | 24.11 | 25.28 | 25.66 |
| | 6H | 18.93 | 20.05 | 19.34 | 20.42 | 20.82 | 24.00 | 25.13 | 24.42 | 25.50 | 25.89 |
| | 8H | 19.03 | 20.10 | 19.46 | 20.49 | 20.89 | 24.08 | 25.15 | 24.51 | 25.54 | 25.94 |
| | 12H | 19.10 | 20.12 | 19.53 | 20.50 | 20.93 | 24.12 | 25.14 | 24.55 | 25.53 | 25.96 |
| 4H | 2H | 17.74 | 18.96 | 18.14 | 19.31 | 19.69 | 22.02 | 23.24 | 22.43 | 23.59 | 23.97 |
| | 3H | 19.21 | 20.22 | 19.63 | 20.63 | 21.03 | 23.51 | 24.52 | 23.93 | 24.93 | 25.33 |
| | 4H | 19.68 | 20.59 | 20.11 | 21.00 | 21.44 | 24.07 | 24.98 | 24.50 | 25.39 | 25.83 |
| | 6H | 20.07 | 20.85 | 20.52 | 21.30 | 21.76 | 24.51 | 25.30 | 24.97 | 25.74 | 26.20 |
| | 8H | 20.20 | 20.93 | 20.66 | 21.38 | 21.84 | 24.63 | 25.37 | 25.10 | 25.81 | 26.28 |
| | 12H | 20.29 | 20.95 | 20.78 | 21.43 | 21.90 | 24.71 | 25.36 | 25.19 | 25.84 | 26.31 |
| 8H | 4H | 20.07 | 20.80 | 20.53 | 21.25 | 21.71 | 24.08 | 24.81 | 24.54 | 25.26 | 25.73 |
| | 6H | 20.54 | 21.14 | 21.03 | 21.63 | 22.11 | 24.57 | 25.17 | 25.06 | 25.66 | 26.14 |
| | 8H | 20.72 | 21.26 | 21.24 | 21.77 | 22.26 | 24.73 | 25.27 | 25.24 | 25.78 | 26.27 |
| | 12H | 20.88 | 21.36 | 21.39 | 21.85 | 22.42 | 24.86 | 25.34 | 25.37 | 25.83 | 26.40 |
| 12H | 4H | 20.11 | 20.77 | 20.60 | 21.25 | 21.72 | 24.05 | 24.71 | 24.54 | 25.19 | 25.66 |
| | 6H | 20.60 | 21.14 | 21.12 | 21.65 | 22.14 | 24.54 | 25.08 | 25.06 | 25.59 | 26.08 |
| | 8H | 20.83 | 21.31 | 21.35 | 21.80 | 22.37 | 24.74 | 25.21 | 25.25 | 25.71 | 26.27 |