

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P832479

Luminaire Tested: S123RDP-S775D850-4F0-1E-UDD-G

Issue Date: 05/03/2024

Tested By:

Approved By:



NVLAP Lab Code: 200050-0

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Test Information

Test Method: LM-79-2019
 Report Number: P832479
 Test Lab: INNOVATION CENTER
 Issue Date: 05/03/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: NEO-RAY
 Catalog Number: S123RDP-S775D850-4F0-1E-UDD-G
 Description: DEFINE 3 DIRECT PENDANT LED LUMINAIRE
 DOWNLIGHT 775 LUMENS PER FOOT, GRAZE OPTIC

Light Source: -
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3670.7 lumens
 Efficiency: N/A
 Efficacy: 141.7 lumens/watt
 Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
 Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
 CIE Type: Direct

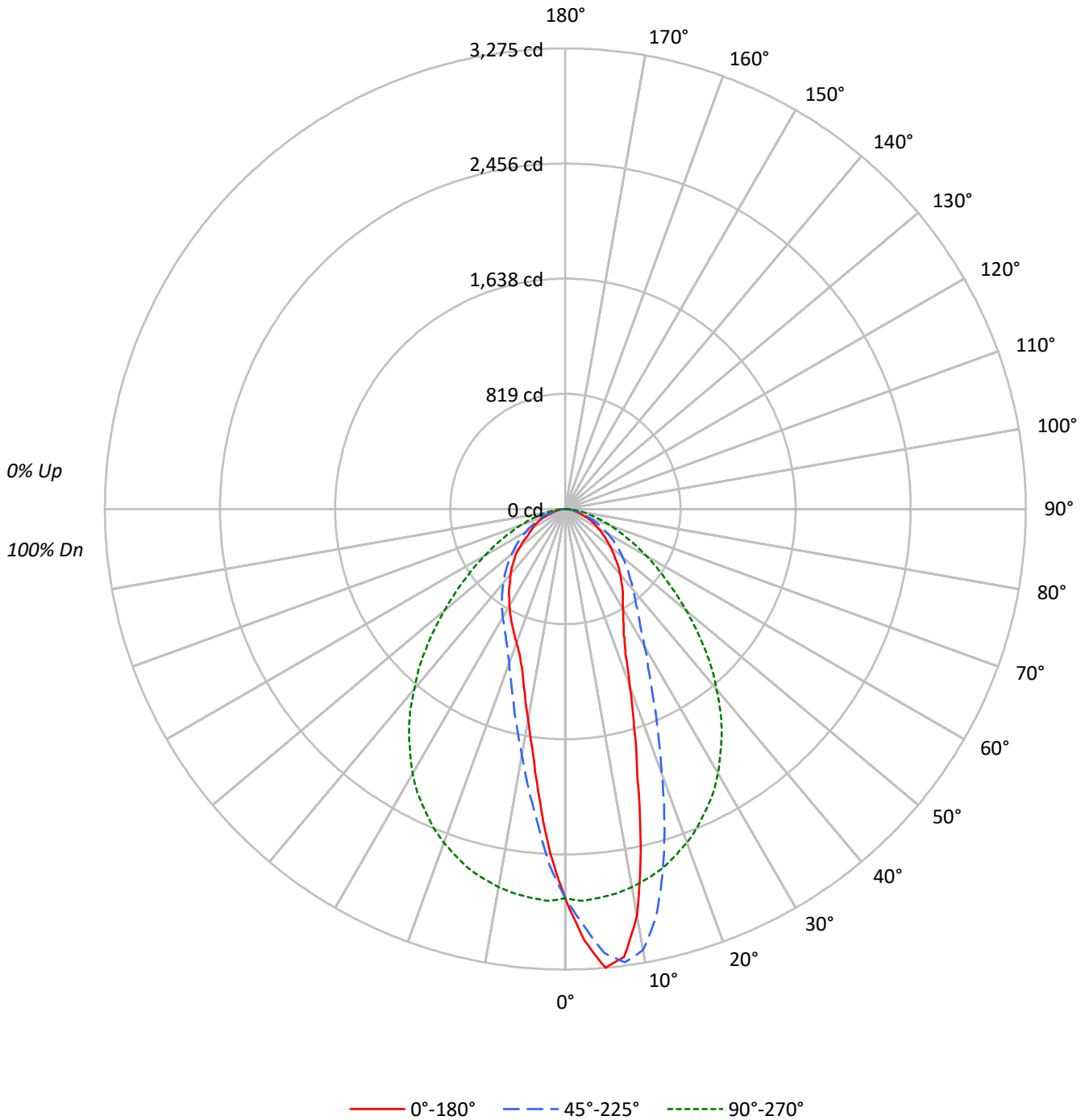
Input Watts (W): 25.9
 Input Voltage (V): 120
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 24 FT

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | P3 | 10/30/2015 | 4/30/2016 |
| Power Meter | IN0214 | 1/12/2016 | 1/12/2017 |
| AC Power Source | IN0062 | 1/12/2016 | 1/12/2017 |
| DC Power Supply | -- | -- | -- |
| Room Thermometer | IN0145 | 1/13/2016 | 1/13/2017 |

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Luminous Intensity Polar Plot



TEST NUMBER: P832479

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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 | | | | |
| 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 | 35 | 58 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 33 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|-------|-------|-------|
| 0° | 29801 | 29801 | 29801 | 29801 | 29801 |
| 5° | 35385 | 34256 | 29988 | 24242 | 22507 |
| 10° | 32060 | 34796 | 29839 | 19423 | 16663 |
| 15° | 22073 | 29834 | 29524 | 15875 | 13181 |
| 20° | 15356 | 22969 | 28931 | 13386 | 11585 |
| 25° | 11702 | 17506 | 28068 | 11898 | 10677 |
| 30° | 10187 | 13996 | 26990 | 11047 | 9890 |
| 35° | 9352 | 11807 | 25462 | 10330 | 9173 |
| 40° | 8533 | 10543 | 23463 | 9627 | 8518 |
| 45° | 7707 | 9642 | 21305 | 8960 | 7862 |
| 50° | 6995 | 8895 | 18762 | 8308 | 7052 |
| 55° | 6326 | 8169 | 16317 | 7668 | 6050 |
| 60° | 5670 | 7429 | 14174 | 6964 | 5718 |
| 65° | 5234 | 6592 | 12200 | 6260 | 5407 |
| 70° | 4252 | 5700 | 10647 | 5662 | 4393 |
| 75° | 3730 | 4533 | 9016 | 4695 | 3872 |
| 80° | 3378 | 3837 | 7389 | 3942 | 3657 |
| 85° | 3088 | 3359 | 5607 | 3569 | 3359 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 22481 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 252.4 | 6.9 |
| 10°-20° | 583.9 | 15.9 |
| 20°-30° | 670.0 | 18.3 |
| 30°-40° | 660.4 | 18.0 |
| 40°-50° | 582.4 | 15.9 |
| 50°-60° | 448.0 | 12.2 |
| 60°-70° | 294.6 | 8.0 |
| 70°-80° | 143.1 | 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° | 1506.3 | 41.0 |
| 0°-40° | 2166.7 | 59.0 |
| 0°-60° | 3197.1 | 87.1 |
| 0°-90° | 3670.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3670.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2769 | 2769 | 2769 | 2769 | 2769 | |
| 5° | 3275 | 3170 | 2775 | 2244 | 2083 | 299 |
| 15° | 1981 | 2677 | 2649 | 1425 | 1183 | 559 |
| 25° | 985 | 1474 | 2363 | 1002 | 899 | 465 |
| 35° | 712 | 898 | 1938 | 786 | 698 | 444 |
| 45° | 506 | 633 | 1400 | 589 | 516 | 393 |
| 55° | 337 | 435 | 870 | 409 | 322 | 302 |
| 65° | 206 | 259 | 479 | 246 | 212 | 201 |
| 75° | 90 | 109 | 217 | 113 | 93 | 97 |
| 85° | 25 | 27 | 45 | 29 | 27 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 |
| 2.5° | 3068.3 | 3058.6 | 3049.0 | 3046.1 | 3043.3 | 3034.2 | 3025.1 | 3004.7 | 2984.3 | 2963.3 | 2942.3 |
| 5° | 3274.9 | 3276.0 | 3277.1 | 3274.3 | 3271.5 | 3259.5 | 3247.6 | 3222.6 | 3197.7 | 3170.4 | 3143.2 |
| 7.5° | 3211.3 | 3229.5 | 3247.6 | 3251.0 | 3254.4 | 3263.5 | 3272.6 | 3266.9 | 3261.2 | 3251.0 | 3240.8 |
| 10° | 2933.2 | 2932.0 | 2930.9 | 2951.3 | 2971.8 | 3032.5 | 3093.2 | 3124.5 | 3155.7 | 3183.5 | 3211.3 |
| 12.5° | 2479.1 | 2480.8 | 2482.5 | 2549.5 | 2616.5 | 2673.8 | 2731.1 | 2810.6 | 2890.0 | 2975.7 | 3061.5 |
| 15° | 1980.8 | 2008.6 | 2036.4 | 2096.0 | 2155.6 | 2241.9 | 2328.2 | 2434.9 | 2541.6 | 2677.2 | 2812.9 |
| 17.5° | 1626.6 | 1638.6 | 1650.5 | 1707.8 | 1765.1 | 1846.9 | 1928.6 | 2049.5 | 2170.4 | 2345.2 | 2520.0 |
| 20° | 1340.6 | 1351.4 | 1362.2 | 1403.6 | 1445.0 | 1523.3 | 1601.7 | 1716.9 | 1832.1 | 2005.2 | 2178.3 |
| 22.5° | 1119.2 | 1140.2 | 1161.2 | 1189.1 | 1216.9 | 1273.6 | 1330.4 | 1447.9 | 1565.3 | 1723.1 | 1880.9 |
| 25° | 985.3 | 994.9 | 1004.6 | 1028.4 | 1052.3 | 1106.8 | 1161.2 | 1239.0 | 1316.8 | 1474.0 | 1631.2 |
| 27.5° | 894.5 | 897.3 | 900.2 | 917.8 | 935.3 | 970.5 | 1005.7 | 1077.8 | 1149.9 | 1279.3 | 1408.7 |
| 30° | 819.6 | 824.7 | 829.8 | 843.4 | 857.0 | 882.6 | 908.1 | 959.2 | 1010.3 | 1126.1 | 1241.8 |
| 32.5° | 761.7 | 764.5 | 767.3 | 778.7 | 790.1 | 808.8 | 827.5 | 867.8 | 908.1 | 996.6 | 1085.2 |
| 35° | 711.7 | 712.3 | 712.9 | 721.4 | 729.9 | 748.1 | 766.2 | 799.7 | 833.2 | 898.5 | 963.7 |
| 37.5° | 655.0 | 658.9 | 662.9 | 669.2 | 675.4 | 691.3 | 707.2 | 734.4 | 761.7 | 815.6 | 869.5 |
| 40° | 607.3 | 610.7 | 614.1 | 621.5 | 628.9 | 641.3 | 653.8 | 678.8 | 703.8 | 750.3 | 796.9 |
| 42.5° | 559.6 | 561.9 | 564.2 | 571.5 | 578.9 | 594.2 | 609.6 | 629.4 | 649.3 | 687.9 | 726.5 |
| 45° | 506.3 | 511.9 | 517.6 | 525.6 | 533.5 | 546.6 | 559.6 | 580.1 | 600.5 | 633.4 | 666.3 |
| 47.5° | 462.0 | 464.8 | 467.7 | 474.5 | 481.3 | 497.2 | 513.1 | 531.2 | 549.4 | 580.1 | 610.7 |
| 50° | 417.7 | 418.9 | 420.0 | 426.2 | 432.5 | 446.7 | 460.9 | 481.9 | 502.9 | 531.2 | 559.6 |
| 52.5° | 375.7 | 378.6 | 381.4 | 387.6 | 393.9 | 403.5 | 413.2 | 434.8 | 456.3 | 484.1 | 511.9 |
| 55° | 337.1 | 338.8 | 340.5 | 345.1 | 349.6 | 361.0 | 372.3 | 391.1 | 409.8 | 435.3 | 460.9 |
| 57.5° | 300.8 | 303.1 | 305.4 | 308.8 | 312.2 | 322.4 | 332.6 | 349.1 | 365.5 | 391.1 | 416.6 |
| 60° | 263.4 | 266.2 | 269.0 | 273.0 | 277.0 | 284.9 | 292.9 | 307.6 | 322.4 | 345.1 | 367.8 |
| 62.5° | 236.1 | 236.7 | 237.2 | 240.6 | 244.1 | 249.7 | 255.4 | 267.3 | 279.2 | 301.9 | 324.6 |
| 65° | 205.5 | 207.2 | 208.9 | 210.6 | 212.3 | 216.8 | 221.4 | 231.6 | 241.8 | 258.8 | 275.8 |
| 67.5° | 173.7 | 175.4 | 177.1 | 179.9 | 182.8 | 186.7 | 190.7 | 197.5 | 204.3 | 220.2 | 236.1 |
| 70° | 135.1 | 135.1 | 135.1 | 139.6 | 144.2 | 151.0 | 157.8 | 162.9 | 168.0 | 181.1 | 194.1 |
| 72.5° | 110.1 | 110.7 | 111.2 | 111.8 | 112.4 | 116.4 | 120.3 | 128.8 | 137.4 | 145.3 | 153.2 |
| 75° | 89.7 | 90.2 | 90.8 | 91.4 | 91.9 | 93.1 | 94.2 | 97.1 | 99.9 | 109.0 | 118.1 |
| 77.5° | 71.5 | 72.1 | 72.6 | 73.2 | 73.8 | 74.9 | 76.1 | 77.2 | 78.3 | 81.7 | 85.1 |
| 80° | 54.5 | 55.1 | 55.6 | 56.2 | 56.8 | 57.3 | 57.9 | 59.0 | 60.2 | 61.9 | 63.6 |
| 82.5° | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 40.9 | 42.0 | 42.0 | 42.0 | 43.1 | 44.3 |
| 85° | 25.0 | 25.0 | 25.0 | 25.5 | 26.1 | 26.1 | 26.1 | 26.7 | 27.2 | 27.2 | 27.2 |
| 87.5° | 11.4 | 10.8 | 10.2 | 10.8 | 11.4 | 11.4 | 11.4 | 11.9 | 12.5 | 12.5 | 12.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 |
| 2.5° | 2939.4 | 2936.6 | 2909.3 | 2882.1 | 2855.4 | 2828.7 | 2808.9 | 2789.0 | 2755.5 | 2722.0 | 2701.0 |
| 5° | 3121.6 | 3100.0 | 3056.9 | 3013.8 | 2949.1 | 2884.4 | 2829.9 | 2775.4 | 2706.2 | 2636.9 | 2579.0 |
| 7.5° | 3223.2 | 3205.6 | 3153.4 | 3101.2 | 3015.5 | 2929.8 | 2844.6 | 2759.5 | 2657.3 | 2555.2 | 2467.8 |
| 10° | 3226.0 | 3240.8 | 3197.7 | 3154.5 | 3058.0 | 2961.6 | 2845.8 | 2730.0 | 2592.6 | 2455.3 | 2342.3 |
| 12.5° | 3125.0 | 3188.6 | 3179.5 | 3170.4 | 3072.2 | 2974.0 | 2833.3 | 2692.5 | 2524.0 | 2355.4 | 2214.1 |
| 15° | 2936.0 | 3059.2 | 3095.5 | 3131.8 | 3050.7 | 2969.5 | 2809.5 | 2649.4 | 2451.3 | 2253.2 | 2090.9 |
| 17.5° | 2692.5 | 2865.1 | 2961.0 | 3056.9 | 2997.9 | 2938.9 | 2763.5 | 2588.1 | 2365.0 | 2142.0 | 1965.5 |
| 20° | 2404.2 | 2630.1 | 2780.5 | 2930.9 | 2909.3 | 2887.8 | 2706.7 | 2525.7 | 2285.0 | 2044.4 | 1853.1 |
| 22.5° | 2119.3 | 2357.7 | 2565.4 | 2773.1 | 2795.3 | 2817.4 | 2634.6 | 2451.9 | 2188.5 | 1925.2 | 1730.5 |
| 25° | 1873.5 | 2115.9 | 2363.3 | 2610.8 | 2660.8 | 2710.7 | 2537.0 | 2363.3 | 2090.3 | 1817.3 | 1623.8 |
| 27.5° | 1639.1 | 1869.6 | 2142.0 | 2414.4 | 2505.2 | 2596.0 | 2437.1 | 2278.2 | 1993.9 | 1709.5 | 1516.5 |
| 30° | 1447.9 | 1653.9 | 1932.0 | 2210.1 | 2336.7 | 2463.2 | 2317.4 | 2171.5 | 1889.4 | 1607.3 | 1418.3 |
| 32.5° | 1269.6 | 1454.1 | 1733.3 | 2012.6 | 2159.6 | 2306.6 | 2180.6 | 2054.6 | 1783.3 | 1512.0 | 1325.3 |
| 35° | 1128.9 | 1294.1 | 1554.6 | 1815.1 | 1979.7 | 2144.3 | 2041.0 | 1937.7 | 1672.6 | 1407.6 | 1231.1 |
| 37.5° | 1008.0 | 1146.5 | 1391.1 | 1635.7 | 1810.5 | 1985.3 | 1899.1 | 1812.8 | 1563.6 | 1314.5 | 1147.6 |
| 40° | 908.1 | 1019.3 | 1246.9 | 1474.5 | 1645.9 | 1817.3 | 1743.6 | 1669.8 | 1446.7 | 1223.7 | 1067.6 |
| 42.5° | 822.4 | 918.3 | 1122.6 | 1327.0 | 1484.2 | 1641.4 | 1592.6 | 1543.8 | 1341.7 | 1139.7 | 994.9 |
| 45° | 746.9 | 827.5 | 1007.4 | 1187.3 | 1332.1 | 1476.8 | 1438.2 | 1399.6 | 1225.4 | 1051.1 | 918.3 |
| 47.5° | 679.9 | 749.2 | 909.8 | 1070.4 | 1200.4 | 1330.4 | 1294.6 | 1258.9 | 1114.7 | 970.5 | 849.6 |
| 50° | 618.6 | 677.7 | 811.6 | 945.6 | 1062.5 | 1179.4 | 1149.9 | 1120.4 | 1001.2 | 882.0 | 777.6 |
| 52.5° | 560.8 | 609.6 | 729.9 | 850.2 | 944.4 | 1038.6 | 1015.9 | 993.2 | 901.3 | 809.3 | 714.6 |
| 55° | 505.7 | 550.5 | 652.1 | 753.7 | 834.3 | 914.9 | 892.2 | 869.5 | 798.0 | 726.5 | 643.1 |
| 57.5° | 455.8 | 494.9 | 577.2 | 659.5 | 723.6 | 787.8 | 777.0 | 766.2 | 706.6 | 647.0 | 578.3 |
| 60° | 403.0 | 438.2 | 509.1 | 580.1 | 631.7 | 683.3 | 670.9 | 658.4 | 615.8 | 573.2 | 514.2 |
| 62.5° | 355.9 | 387.1 | 443.8 | 500.6 | 542.6 | 584.6 | 575.5 | 566.4 | 534.1 | 501.7 | 452.9 |
| 65° | 306.5 | 337.1 | 383.1 | 429.1 | 462.0 | 494.9 | 487.0 | 479.0 | 454.6 | 430.2 | 391.1 |
| 67.5° | 261.6 | 287.2 | 326.9 | 366.6 | 388.8 | 410.9 | 406.4 | 401.8 | 383.1 | 364.4 | 333.7 |
| 70° | 216.2 | 238.4 | 271.3 | 304.2 | 319.5 | 334.9 | 336.6 | 338.3 | 321.2 | 304.2 | 281.5 |
| 72.5° | 170.8 | 188.4 | 219.1 | 249.7 | 261.6 | 273.6 | 273.0 | 272.4 | 262.2 | 252.0 | 231.6 |
| 75° | 131.1 | 144.2 | 168.0 | 191.8 | 202.1 | 212.3 | 214.5 | 216.8 | 207.2 | 197.5 | 186.2 |
| 77.5° | 94.2 | 103.3 | 121.5 | 139.6 | 151.0 | 162.3 | 163.5 | 164.6 | 160.1 | 155.5 | 144.7 |
| 80° | 66.4 | 69.2 | 80.6 | 91.9 | 103.9 | 115.8 | 117.5 | 119.2 | 114.6 | 110.1 | 103.3 |
| 82.5° | 46.0 | 47.7 | 51.6 | 55.6 | 65.3 | 74.9 | 77.2 | 79.5 | 77.2 | 74.9 | 67.5 |
| 85° | 27.8 | 28.4 | 30.1 | 31.8 | 36.3 | 40.9 | 43.1 | 45.4 | 44.3 | 43.1 | 39.2 |
| 87.5° | 12.5 | 12.5 | 13.1 | 13.6 | 14.8 | 15.9 | 18.7 | 21.6 | 19.9 | 18.2 | 16.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 | 2768.6 |
| 2.5° | 2680.0 | 2647.7 | 2615.3 | 2592.1 | 2568.8 | 2539.9 | 2510.9 | 2509.8 | 2508.6 | 2487.1 | 2465.5 |
| 5° | 2521.1 | 2464.9 | 2408.8 | 2353.7 | 2298.6 | 2243.6 | 2188.5 | 2176.0 | 2163.6 | 2144.8 | 2126.1 |
| 7.5° | 2380.4 | 2290.7 | 2201.0 | 2130.6 | 2060.3 | 2005.2 | 1950.2 | 1912.7 | 1875.2 | 1846.3 | 1817.3 |
| 10° | 2229.4 | 2118.2 | 2006.9 | 1921.8 | 1836.6 | 1777.0 | 1717.5 | 1674.3 | 1631.2 | 1610.8 | 1590.3 |
| 12.5° | 2072.8 | 1951.9 | 1831.0 | 1747.5 | 1664.1 | 1592.6 | 1521.1 | 1481.9 | 1442.8 | 1414.4 | 1386.0 |
| 15° | 1928.6 | 1798.6 | 1668.6 | 1580.1 | 1491.6 | 1424.6 | 1357.6 | 1318.5 | 1279.3 | 1250.9 | 1222.5 |
| 17.5° | 1789.0 | 1657.9 | 1526.8 | 1437.1 | 1347.4 | 1286.7 | 1225.9 | 1187.9 | 1149.9 | 1132.3 | 1114.7 |
| 20° | 1661.8 | 1529.6 | 1397.3 | 1312.8 | 1228.2 | 1168.6 | 1109.0 | 1088.6 | 1068.2 | 1051.7 | 1035.2 |
| 22.5° | 1535.8 | 1408.7 | 1281.6 | 1200.4 | 1119.2 | 1076.1 | 1033.0 | 1016.5 | 1000.1 | 987.6 | 975.1 |
| 25° | 1430.3 | 1303.7 | 1177.1 | 1106.2 | 1035.2 | 1001.8 | 968.3 | 957.5 | 946.7 | 934.2 | 921.7 |
| 27.5° | 1323.6 | 1203.2 | 1082.9 | 1026.2 | 969.4 | 942.2 | 914.9 | 901.3 | 887.7 | 877.5 | 867.2 |
| 30° | 1229.3 | 1118.1 | 1006.9 | 959.8 | 912.6 | 888.8 | 865.0 | 850.2 | 835.5 | 825.8 | 816.2 |
| 32.5° | 1138.5 | 1039.8 | 941.0 | 900.7 | 860.4 | 837.2 | 813.9 | 799.7 | 785.5 | 774.2 | 762.8 |
| 35° | 1054.5 | 968.8 | 883.1 | 846.2 | 809.3 | 786.1 | 762.8 | 748.6 | 734.4 | 723.1 | 711.7 |
| 37.5° | 980.8 | 903.0 | 825.2 | 790.6 | 756.0 | 735.6 | 715.1 | 700.4 | 685.6 | 673.7 | 661.8 |
| 40° | 911.5 | 842.8 | 774.2 | 740.7 | 707.2 | 685.1 | 662.9 | 649.9 | 636.8 | 626.0 | 615.2 |
| 42.5° | 850.2 | 787.2 | 724.2 | 691.3 | 658.4 | 637.4 | 616.4 | 601.1 | 585.7 | 579.5 | 573.2 |
| 45° | 785.5 | 729.9 | 674.3 | 642.5 | 610.7 | 588.6 | 566.4 | 553.4 | 540.3 | 534.6 | 529.0 |
| 47.5° | 728.8 | 677.1 | 625.5 | 594.2 | 563.0 | 543.2 | 523.3 | 513.1 | 502.9 | 494.9 | 487.0 |
| 50° | 673.1 | 623.2 | 573.2 | 543.2 | 513.1 | 496.1 | 479.0 | 466.5 | 454.1 | 448.4 | 442.7 |
| 52.5° | 619.8 | 574.4 | 529.0 | 498.3 | 467.7 | 451.2 | 434.8 | 424.0 | 413.2 | 401.3 | 389.4 |
| 55° | 559.6 | 519.9 | 480.2 | 452.9 | 425.7 | 408.6 | 391.6 | 379.1 | 366.6 | 354.2 | 341.7 |
| 57.5° | 509.7 | 470.5 | 431.4 | 406.9 | 382.5 | 366.1 | 349.6 | 336.0 | 322.4 | 312.2 | 301.9 |
| 60° | 455.2 | 421.1 | 387.1 | 363.2 | 339.4 | 323.5 | 307.6 | 294.6 | 281.5 | 276.4 | 271.3 |
| 62.5° | 404.1 | 372.3 | 340.5 | 319.5 | 298.5 | 283.2 | 267.9 | 259.4 | 250.9 | 247.5 | 244.1 |
| 65° | 351.9 | 324.6 | 297.4 | 278.1 | 258.8 | 245.8 | 232.7 | 228.7 | 224.8 | 221.9 | 219.1 |
| 67.5° | 303.1 | 279.8 | 256.5 | 239.5 | 222.5 | 213.4 | 204.3 | 199.8 | 195.2 | 191.8 | 188.4 |
| 70° | 258.8 | 238.4 | 217.9 | 203.2 | 188.4 | 179.9 | 171.4 | 167.4 | 163.5 | 157.2 | 151.0 |
| 72.5° | 211.1 | 195.2 | 179.4 | 168.0 | 156.6 | 149.3 | 141.9 | 133.9 | 126.0 | 120.3 | 114.6 |
| 75° | 174.8 | 158.9 | 143.0 | 132.2 | 121.5 | 112.9 | 104.4 | 101.6 | 98.8 | 97.1 | 95.4 |
| 77.5° | 133.9 | 120.3 | 106.7 | 98.2 | 89.7 | 85.7 | 81.7 | 80.0 | 78.3 | 77.8 | 77.2 |
| 80° | 96.5 | 85.1 | 73.8 | 69.2 | 64.7 | 63.6 | 62.4 | 61.3 | 60.2 | 59.6 | 59.0 |
| 82.5° | 60.2 | 54.5 | 48.8 | 47.7 | 46.5 | 46.0 | 45.4 | 44.8 | 44.3 | 43.7 | 43.1 |
| 85° | 35.2 | 32.9 | 30.6 | 30.1 | 29.5 | 28.9 | 28.4 | 28.4 | 28.4 | 28.4 | 28.4 |
| 87.5° | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.2 | 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: P832479

CATALOG NUMBER: S123RDP-S775D850-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2768.6 | 2768.6 | 2768.6 | 2768.6 |
| 2.5° | 2459.8 | 2454.2 | 2451.9 | 2449.6 |
| 5° | 2108.5 | 2090.9 | 2086.9 | 2083.0 |
| 7.5° | 1810.0 | 1802.6 | 1778.2 | 1753.8 |
| 10° | 1567.6 | 1544.9 | 1534.7 | 1524.5 |
| 12.5° | 1365.0 | 1344.0 | 1340.6 | 1337.2 |
| 15° | 1207.8 | 1193.0 | 1187.9 | 1182.8 |
| 17.5° | 1104.5 | 1094.3 | 1088.0 | 1081.8 |
| 20° | 1027.9 | 1020.5 | 1015.9 | 1011.4 |
| 22.5° | 969.4 | 963.7 | 960.3 | 956.9 |
| 25° | 913.2 | 904.7 | 901.9 | 899.0 |
| 27.5° | 859.9 | 852.5 | 849.6 | 846.8 |
| 30° | 809.9 | 803.7 | 799.7 | 795.7 |
| 32.5° | 755.4 | 748.1 | 745.8 | 743.5 |
| 35° | 707.2 | 702.6 | 700.4 | 698.1 |
| 37.5° | 656.1 | 650.4 | 647.0 | 643.6 |
| 40° | 612.4 | 609.6 | 607.9 | 606.2 |
| 42.5° | 568.1 | 563.0 | 562.5 | 561.9 |
| 45° | 523.9 | 518.8 | 517.6 | 516.5 |
| 47.5° | 482.4 | 477.9 | 477.3 | 476.8 |
| 50° | 436.5 | 430.2 | 425.7 | 421.1 |
| 52.5° | 383.7 | 378.0 | 374.0 | 370.1 |
| 55° | 335.4 | 329.2 | 325.8 | 322.4 |
| 57.5° | 299.1 | 296.3 | 294.6 | 292.9 |
| 60° | 269.6 | 267.9 | 266.8 | 265.6 |
| 62.5° | 242.4 | 240.6 | 240.6 | 240.6 |
| 65° | 217.4 | 215.7 | 214.0 | 212.3 |
| 67.5° | 185.0 | 181.6 | 181.1 | 180.5 |
| 70° | 145.9 | 140.8 | 140.2 | 139.6 |
| 72.5° | 114.1 | 113.5 | 112.4 | 111.2 |
| 75° | 94.2 | 93.1 | 93.1 | 93.1 |
| 77.5° | 76.1 | 74.9 | 74.9 | 74.9 |
| 80° | 58.5 | 57.9 | 58.5 | 59.0 |
| 82.5° | 43.1 | 43.1 | 42.6 | 42.0 |
| 85° | 27.8 | 27.2 | 27.2 | 27.2 |
| 87.5° | 13.6 | 13.6 | 13.6 | 13.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

TEST NUMBER: P832479

CATALOG NUMBER: S123RDP-S775D850-4F0-1E-UDD-G

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 | 16.50 | 17.95 | 16.86 | 18.27 | 18.58 | 21.16 | 22.62 | 21.53 | 22.93 | 23.25 |
| | 3H | 17.76 | 19.07 | 18.14 | 19.39 | 19.76 | 22.70 | 24.01 | 23.08 | 24.34 | 24.70 |
| | 4H | 18.17 | 19.39 | 18.57 | 19.74 | 20.12 | 23.22 | 24.44 | 23.62 | 24.79 | 25.17 |
| | 6H | 18.48 | 19.61 | 18.89 | 19.97 | 20.37 | 23.56 | 24.69 | 23.97 | 25.05 | 25.45 |
| | 8H | 18.59 | 19.66 | 19.01 | 20.05 | 20.45 | 23.66 | 24.73 | 24.08 | 25.12 | 25.52 |
| | 12H | 18.66 | 19.68 | 19.09 | 20.06 | 20.49 | 23.71 | 24.73 | 24.14 | 25.11 | 25.54 |
| 4H | 2H | 17.29 | 18.51 | 17.69 | 18.86 | 19.24 | 21.23 | 22.45 | 21.63 | 22.80 | 23.18 |
| | 3H | 18.71 | 19.72 | 19.12 | 20.12 | 20.52 | 22.94 | 23.95 | 23.35 | 24.35 | 24.75 |
| | 4H | 19.19 | 20.10 | 19.62 | 20.51 | 20.95 | 23.56 | 24.47 | 24.00 | 24.89 | 25.33 |
| | 6H | 19.59 | 20.37 | 20.05 | 20.82 | 21.28 | 24.03 | 24.82 | 24.49 | 25.26 | 25.73 |
| | 8H | 19.72 | 20.46 | 20.19 | 20.90 | 21.37 | 24.17 | 24.91 | 24.64 | 25.35 | 25.82 |
| | 12H | 19.82 | 20.48 | 20.31 | 20.96 | 21.43 | 24.26 | 24.92 | 24.75 | 25.40 | 25.87 |
| 8H | 4H | 19.54 | 20.28 | 20.01 | 20.72 | 21.19 | 23.57 | 24.31 | 24.04 | 24.75 | 25.22 |
| | 6H | 20.03 | 20.63 | 20.53 | 21.12 | 21.60 | 24.09 | 24.69 | 24.59 | 25.19 | 25.66 |
| | 8H | 20.22 | 20.76 | 20.74 | 21.27 | 21.76 | 24.28 | 24.82 | 24.79 | 25.33 | 25.82 |
| | 12H | 20.39 | 20.86 | 20.90 | 21.36 | 21.92 | 24.42 | 24.90 | 24.93 | 25.39 | 25.96 |
| 12H | 4H | 19.58 | 20.24 | 20.07 | 20.72 | 21.19 | 23.55 | 24.20 | 24.03 | 24.68 | 25.16 |
| | 6H | 20.09 | 20.63 | 20.60 | 21.14 | 21.63 | 24.06 | 24.61 | 24.58 | 25.12 | 25.61 |
| | 8H | 20.33 | 20.81 | 20.84 | 21.30 | 21.87 | 24.28 | 24.76 | 24.79 | 25.25 | 25.82 |