

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P242633

Luminaire Tested: **S124DR-S350D830-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P242633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DR-S350D830-X4F0-XX-UDD-A-W  
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1370.7 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.41  
Luminous Opening: Rectangular (W 3.88' x L: 0.31' x H: 0')  
CIE Type: Direct

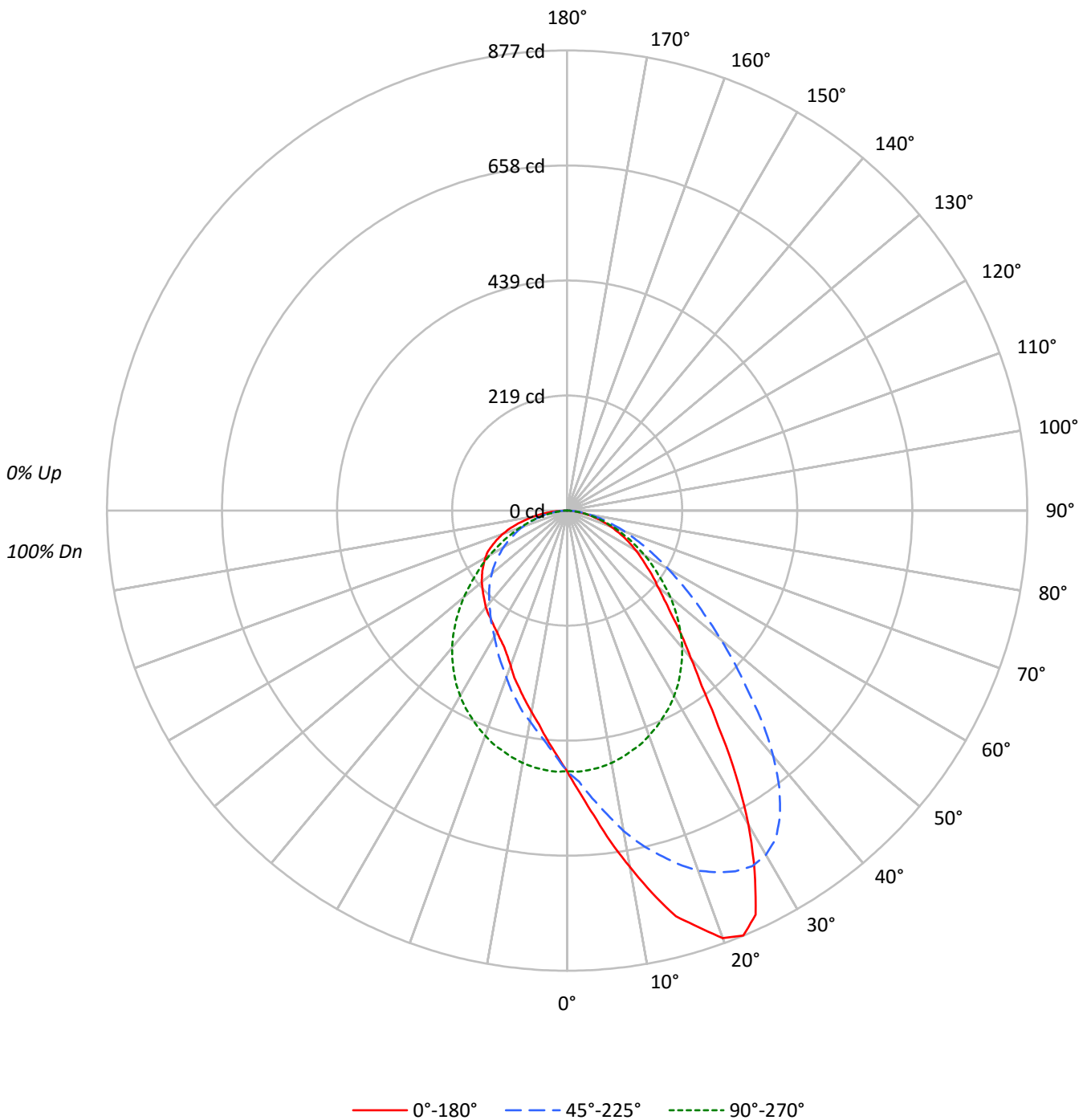
Input Watts (W): 11.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P242633

CATALOG NUMBER: S124DR-S350D830-X4F0-XX-UDD-A-W

### Luminous Intensity Polar Plot





TEST NUMBER: P242633

CATALOG NUMBER: S124DR-S350D830-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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 98  | 90  | 84  | 79  | 87  | 82  | 78  | 84  | 79  | 76  | 81  | 77  | 74  | 72  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |
| 4   | 84  | 73  | 64  | 58  | 82  | 72  | 64  | 58  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 55  | 53  |
| 5   | 78  | 65  | 57  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 46  |
| 6   | 72  | 59  | 51  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 44  | 55  | 48  | 43  | 53  | 47  | 43  | 41  |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 52  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 38  | 36  |
| 8   | 62  | 49  | 41  | 35  | 61  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |
| 9   | 58  | 45  | 37  | 32  | 57  | 45  | 37  | 32  | 44  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 31  | 30  |
| 10  | 55  | 42  | 34  | 29  | 54  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 39  | 33  | 29  | 27  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 4415 | 4415 | 4415 |
| 5°  | 5199 | 4427 | 3907 |
| 10° | 6225 | 4407 | 3517 |
| 15° | 7366 | 4363 | 3230 |
| 20° | 8202 | 4317 | 2974 |
| 25° | 8335 | 4251 | 2797 |
| 30° | 7092 | 4186 | 2742 |
| 35° | 5453 | 4081 | 2742 |
| 40° | 4250 | 3959 | 2794 |
| 45° | 3544 | 3774 | 2840 |
| 50° | 3118 | 3548 | 2937 |
| 55° | 2858 | 3278 | 3055 |
| 60° | 2677 | 3036 | 3196 |
| 65° | 2492 | 2766 | 3315 |
| 70° | 2279 | 2498 | 3392 |
| 75° | 2037 | 2198 | 3349 |
| 80° | 1705 | 1802 | 3245 |
| 85° | 1254 | 1305 | 3111 |



TEST NUMBER: P242633

CATALOG NUMBER: S124DR-S350D830-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.3   | 3.5       |
| 10°-20°   | 149.2  | 10.9      |
| 20°-30°   | 237.0  | 17.3      |
| 30°-40°   | 263.4  | 19.2      |
| 40°-50°   | 239.5  | 17.5      |
| 50°-60°   | 195.7  | 14.3      |
| 60°-70°   | 139.7  | 10.2      |
| 70°-80°   | 76.9   | 5.6       |
| 80°-90°   | 20.8   | 1.5       |
| 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°    | 434.6  | 31.7      |
| 0°-40°    | 698.0  | 50.9      |
| 0°-60°    | 1133.3 | 82.7      |
| 0°-90°    | 1370.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1370.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 497 | 497 | 497 | 497  | 497  |      |
| 5°  | 583 | 550 | 496 | 446  | 438  | 59   |
| 15° | 800 | 679 | 474 | 374  | 351  | 226  |
| 25° | 850 | 759 | 433 | 307  | 285  | 377  |
| 35° | 502 | 708 | 376 | 254  | 253  | 318  |
| 45° | 282 | 488 | 300 | 210  | 226  | 222  |
| 55° | 184 | 294 | 212 | 164  | 197  | 166  |
| 65° | 118 | 164 | 132 | 114  | 158  | 117  |
| 75° | 59  | 76  | 64  | 64   | 98   | 63   |
| 85° | 12  | 16  | 13  | 18   | 30   | 15   |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



TEST NUMBER: P242633

CATALOG NUMBER: S124DR-S350D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 |
| 2.5°  | 536.6 | 536.4 | 534.4 | 534.0 | 532.5 | 530.7 | 530.3 | 527.0 | 520.4 | 517.3 | 516.5 |
| 5°    | 582.7 | 586.9 | 581.5 | 580.5 | 579.9 | 573.1 | 569.6 | 565.5 | 556.0 | 550.4 | 546.1 |
| 7.5°  | 636.7 | 636.9 | 634.6 | 632.3 | 628.4 | 622.7 | 614.8 | 605.8 | 594.9 | 583.8 | 575.9 |
| 10°   | 689.7 | 691.4 | 688.7 | 688.3 | 677.8 | 671.2 | 658.1 | 646.9 | 634.2 | 620.0 | 607.0 |
| 12.5° | 745.7 | 742.4 | 741.4 | 730.5 | 730.7 | 717.3 | 701.5 | 689.9 | 668.5 | 651.7 | 633.4 |
| 15°   | 800.4 | 795.9 | 793.0 | 780.9 | 774.9 | 758.3 | 742.0 | 729.5 | 703.7 | 679.2 | 660.7 |
| 17.5° | 832.1 | 837.7 | 830.3 | 825.3 | 809.1 | 798.2 | 781.9 | 756.2 | 737.1 | 706.6 | 685.4 |
| 20°   | 867.1 | 867.5 | 863.8 | 858.7 | 846.5 | 831.7 | 813.6 | 784.8 | 760.7 | 730.5 | 698.4 |
| 22.5° | 876.6 | 876.6 | 875.5 | 870.8 | 862.4 | 851.1 | 832.7 | 809.9 | 779.5 | 745.9 | 713.8 |
| 25°   | 849.8 | 849.0 | 850.9 | 856.2 | 852.7 | 849.0 | 838.5 | 820.6 | 793.4 | 758.7 | 724.1 |
| 27.5° | 774.1 | 779.5 | 790.6 | 803.7 | 813.2 | 821.6 | 821.0 | 813.4 | 794.1 | 764.0 | 727.2 |
| 30°   | 691.0 | 698.0 | 705.8 | 719.0 | 744.5 | 759.1 | 775.1 | 787.3 | 780.5 | 757.6 | 723.9 |
| 32.5° | 599.6 | 600.0 | 612.6 | 628.0 | 650.8 | 682.3 | 710.1 | 737.9 | 749.8 | 740.6 | 713.8 |
| 35°   | 502.5 | 505.4 | 517.9 | 532.7 | 561.3 | 595.7 | 634.0 | 668.1 | 696.3 | 707.6 | 693.2 |
| 37.5° | 421.0 | 430.1 | 439.5 | 456.4 | 482.5 | 513.6 | 554.8 | 597.3 | 638.7 | 663.8 | 666.5 |
| 40°   | 366.3 | 371.4 | 377.8 | 389.9 | 411.3 | 441.8 | 475.9 | 526.6 | 571.2 | 611.5 | 624.7 |
| 42.5° | 323.1 | 325.5 | 328.8 | 339.5 | 354.5 | 384.8 | 415.2 | 458.2 | 503.1 | 553.3 | 577.6 |
| 45°   | 281.9 | 285.0 | 291.6 | 298.0 | 310.3 | 331.3 | 360.3 | 396.9 | 442.0 | 488.5 | 529.2 |
| 47.5° | 251.0 | 253.1 | 257.2 | 264.2 | 275.3 | 289.5 | 314.2 | 345.3 | 389.3 | 434.4 | 478.0 |
| 50°   | 225.5 | 227.2 | 230.3 | 236.4 | 244.5 | 256.8 | 276.1 | 304.7 | 337.5 | 382.9 | 425.5 |
| 52.5° | 205.4 | 205.8 | 207.8 | 211.5 | 217.5 | 227.4 | 242.4 | 264.8 | 294.7 | 334.0 | 376.4 |
| 55°   | 184.4 | 185.2 | 187.3 | 190.3 | 195.9 | 202.5 | 214.6 | 232.3 | 258.9 | 294.0 | 330.9 |
| 57.5° | 167.1 | 167.9 | 169.6 | 170.8 | 175.7 | 181.3 | 191.2 | 203.9 | 224.7 | 256.0 | 289.5 |
| 60°   | 150.6 | 150.2 | 152.3 | 153.3 | 156.4 | 160.9 | 168.1 | 180.3 | 197.7 | 221.8 | 252.1 |
| 62.5° | 134.6 | 134.0 | 135.6 | 137.0 | 138.5 | 142.2 | 147.7 | 156.6 | 170.0 | 191.2 | 216.3 |
| 65°   | 118.5 | 117.7 | 118.7 | 120.4 | 122.0 | 124.1 | 128.4 | 136.8 | 148.2 | 163.8 | 183.8 |
| 67.5° | 102.1 | 103.1 | 103.1 | 104.1 | 105.1 | 108.0 | 111.1 | 117.7 | 125.7 | 138.5 | 156.2 |
| 70°   | 87.7  | 87.9  | 88.7  | 88.7  | 89.3  | 91.8  | 94.2  | 97.7  | 105.6 | 117.1 | 130.9 |
| 72.5° | 73.3  | 74.3  | 73.7  | 74.5  | 74.9  | 76.3  | 78.0  | 81.3  | 87.7  | 95.5  | 106.6 |
| 75°   | 59.3  | 59.9  | 59.9  | 60.1  | 60.7  | 61.3  | 62.8  | 65.2  | 70.0  | 76.3  | 84.4  |
| 77.5° | 45.7  | 45.7  | 46.1  | 46.9  | 46.9  | 47.9  | 49.2  | 51.0  | 53.7  | 58.4  | 63.6  |
| 80°   | 33.3  | 33.7  | 33.5  | 34.0  | 34.0  | 34.8  | 35.2  | 37.7  | 38.7  | 41.6  | 45.5  |
| 82.5° | 22.2  | 22.6  | 22.6  | 23.3  | 23.7  | 23.7  | 24.3  | 24.9  | 25.9  | 28.4  | 29.4  |
| 85°   | 12.3  | 12.8  | 12.3  | 12.8  | 13.4  | 13.6  | 14.2  | 14.4  | 15.2  | 15.8  | 17.3  |
| 87.5° | 4.5   | 5.1   | 5.1   | 5.4   | 5.8   | 6.0   | 6.2   | 6.0   | 6.8   | 7.0   | 7.8   |
| 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: P242633

CATALOG NUMBER: S124DR-S350D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 |
| 2.5°  | 516.7 | 513.8 | 511.7 | 510.1 | 505.6 | 502.9 | 500.8 | 498.0 | 494.7 | 491.2 | 486.9 |
| 5°    | 541.8 | 534.8 | 529.7 | 521.8 | 514.4 | 508.3 | 501.9 | 496.1 | 489.1 | 481.5 | 475.9 |
| 7.5°  | 567.5 | 557.8 | 544.9 | 534.8 | 522.7 | 512.2 | 502.9 | 493.2 | 482.9 | 473.1 | 463.8 |
| 10°   | 591.8 | 578.4 | 563.6 | 546.1 | 529.7 | 515.0 | 501.5 | 488.3 | 475.5 | 462.8 | 451.9 |
| 12.5° | 617.9 | 600.4 | 576.8 | 555.6 | 536.6 | 515.9 | 498.8 | 481.9 | 465.9 | 452.3 | 439.1 |
| 15°   | 640.8 | 616.7 | 591.4 | 564.0 | 539.7 | 516.9 | 494.5 | 474.1 | 456.8 | 439.1 | 426.8 |
| 17.5° | 655.2 | 625.3 | 598.2 | 569.6 | 541.6 | 513.0 | 489.7 | 466.9 | 445.5 | 428.2 | 412.8 |
| 20°   | 669.4 | 639.7 | 603.7 | 575.1 | 540.1 | 510.5 | 482.5 | 456.4 | 433.8 | 415.0 | 399.0 |
| 22.5° | 681.7 | 646.3 | 610.3 | 570.4 | 535.6 | 503.7 | 472.4 | 446.1 | 422.9 | 402.9 | 387.7 |
| 25°   | 684.6 | 645.3 | 606.2 | 568.7 | 529.2 | 492.0 | 464.2 | 433.4 | 408.7 | 387.9 | 371.4 |
| 27.5° | 685.6 | 644.1 | 600.6 | 559.9 | 519.2 | 485.2 | 449.0 | 422.0 | 396.5 | 374.5 | 358.9 |
| 30°   | 683.4 | 639.5 | 592.0 | 546.9 | 506.0 | 468.3 | 437.9 | 407.8 | 381.7 | 359.9 | 343.4 |
| 32.5° | 676.2 | 630.1 | 580.9 | 532.5 | 489.7 | 453.1 | 421.4 | 393.2 | 367.9 | 346.5 | 329.0 |
| 35°   | 660.9 | 615.9 | 563.8 | 514.2 | 470.8 | 433.6 | 405.2 | 376.1 | 350.6 | 330.3 | 313.6 |
| 37.5° | 640.6 | 598.6 | 545.7 | 494.1 | 452.3 | 414.4 | 385.8 | 359.1 | 336.0 | 315.0 | 297.7 |
| 40°   | 612.2 | 576.4 | 523.3 | 473.3 | 427.2 | 391.6 | 365.2 | 341.2 | 318.3 | 298.8 | 282.5 |
| 42.5° | 579.4 | 549.4 | 501.5 | 447.8 | 403.7 | 367.9 | 342.4 | 321.4 | 300.2 | 282.5 | 266.3 |
| 45°   | 539.3 | 518.7 | 472.7 | 423.7 | 377.4 | 343.6 | 319.1 | 300.2 | 282.1 | 264.4 | 250.8 |
| 47.5° | 494.7 | 483.1 | 443.0 | 396.1 | 351.7 | 317.9 | 296.7 | 278.6 | 262.2 | 246.7 | 234.6 |
| 50°   | 449.6 | 444.7 | 411.1 | 366.3 | 324.3 | 293.0 | 271.6 | 256.6 | 243.0 | 229.8 | 218.5 |
| 52.5° | 405.2 | 406.2 | 376.8 | 336.6 | 298.6 | 268.7 | 247.5 | 233.8 | 222.4 | 212.4 | 202.5 |
| 55°   | 359.7 | 365.4 | 341.8 | 305.2 | 270.4 | 243.2 | 224.1 | 211.5 | 203.3 | 194.5 | 186.8 |
| 57.5° | 317.9 | 327.6 | 307.0 | 273.5 | 244.0 | 218.1 | 201.2 | 191.6 | 182.5 | 176.8 | 170.8 |
| 60°   | 277.2 | 286.2 | 271.0 | 243.8 | 216.5 | 195.1 | 179.2 | 170.8 | 163.2 | 159.5 | 155.6 |
| 62.5° | 241.0 | 248.8 | 238.5 | 213.8 | 191.0 | 170.6 | 157.8 | 149.8 | 145.3 | 141.2 | 138.9 |
| 65°   | 206.8 | 213.6 | 203.9 | 185.6 | 165.2 | 148.8 | 137.9 | 131.5 | 126.5 | 124.9 | 122.0 |
| 67.5° | 173.1 | 179.2 | 174.1 | 158.0 | 140.7 | 127.8 | 119.1 | 112.4 | 109.5 | 107.8 | 106.0 |
| 70°   | 143.6 | 149.8 | 144.2 | 130.7 | 118.1 | 107.6 | 99.6  | 96.1  | 93.0  | 92.4  | 89.5  |
| 72.5° | 118.7 | 122.4 | 116.9 | 107.0 | 96.7  | 88.3  | 82.5  | 78.8  | 77.6  | 76.3  | 75.1  |
| 75°   | 92.8  | 96.5  | 92.8  | 84.6  | 77.0  | 70.8  | 65.4  | 64.0  | 62.1  | 61.5  | 60.5  |
| 77.5° | 69.6  | 73.0  | 70.2  | 64.6  | 58.6  | 53.5  | 50.4  | 48.4  | 48.2  | 46.9  | 47.3  |
| 80°   | 50.2  | 52.3  | 49.6  | 46.1  | 41.6  | 38.3  | 36.2  | 35.2  | 34.0  | 33.5  | 34.4  |
| 82.5° | 32.5  | 33.1  | 32.1  | 30.0  | 27.0  | 25.1  | 23.9  | 22.6  | 22.6  | 22.8  | 22.6  |
| 85°   | 18.7  | 18.5  | 18.3  | 16.3  | 15.2  | 13.8  | 13.0  | 12.8  | 12.6  | 13.0  | 13.4  |
| 87.5° | 7.8   | 8.0   | 7.8   | 7.0   | 6.4   | 5.8   | 5.6   | 5.4   | 5.6   | 5.8   | 6.0   |
| 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: P242633

CATALOG NUMBER: S124DR-S350D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 | 496.7 |
| 2.5°  | 484.8 | 482.9 | 480.3 | 476.6 | 473.5 | 470.2 | 469.4 | 468.1 | 470.6 | 468.5 | 467.9 |
| 5°    | 471.2 | 466.9 | 461.3 | 455.0 | 451.3 | 445.9 | 444.9 | 442.8 | 440.8 | 440.6 | 438.5 |
| 7.5°  | 457.0 | 451.0 | 444.1 | 437.5 | 431.7 | 425.9 | 422.2 | 421.8 | 418.5 | 416.9 | 414.8 |
| 10°   | 443.4 | 435.6 | 427.2 | 421.0 | 414.0 | 407.8 | 403.5 | 401.0 | 399.0 | 396.7 | 394.7 |
| 12.5° | 427.4 | 418.9 | 412.4 | 405.6 | 396.9 | 392.6 | 384.8 | 380.1 | 380.1 | 380.7 | 374.5 |
| 15°   | 415.7 | 407.4 | 396.7 | 387.3 | 382.7 | 373.7 | 369.8 | 364.8 | 361.7 | 358.7 | 356.2 |
| 17.5° | 401.3 | 391.2 | 382.9 | 372.2 | 363.8 | 357.0 | 351.7 | 349.0 | 344.0 | 339.5 | 336.4 |
| 20°   | 387.9 | 377.0 | 368.1 | 356.6 | 347.1 | 338.3 | 334.0 | 329.8 | 326.4 | 322.6 | 319.1 |
| 22.5° | 374.3 | 362.8 | 351.5 | 340.3 | 331.7 | 322.2 | 318.1 | 312.2 | 308.9 | 307.2 | 303.7 |
| 25°   | 359.9 | 347.5 | 335.2 | 324.5 | 315.4 | 307.2 | 301.7 | 297.3 | 293.6 | 292.0 | 289.7 |
| 27.5° | 344.3 | 332.1 | 320.4 | 308.0 | 297.5 | 291.6 | 287.0 | 283.6 | 281.3 | 278.8 | 277.8 |
| 30°   | 329.4 | 316.7 | 303.9 | 292.6 | 283.1 | 277.2 | 273.1 | 270.8 | 269.1 | 268.1 | 267.1 |
| 32.5° | 314.4 | 301.9 | 288.3 | 278.2 | 270.0 | 264.8 | 261.9 | 259.7 | 259.1 | 258.9 | 258.7 |
| 35°   | 298.2 | 285.4 | 273.1 | 263.8 | 255.8 | 253.7 | 251.0 | 249.8 | 249.4 | 250.8 | 251.5 |
| 37.5° | 282.5 | 270.6 | 259.1 | 249.8 | 244.5 | 241.2 | 240.1 | 239.9 | 241.4 | 242.6 | 244.0 |
| 40°   | 267.5 | 256.0 | 245.3 | 237.5 | 232.5 | 230.7 | 230.3 | 231.3 | 232.9 | 234.4 | 236.0 |
| 42.5° | 252.9 | 241.6 | 232.1 | 224.9 | 221.8 | 220.2 | 220.6 | 221.6 | 224.1 | 225.9 | 228.6 |
| 45°   | 237.7 | 228.2 | 218.7 | 212.8 | 209.9 | 210.3 | 210.3 | 212.1 | 214.4 | 217.1 | 219.8 |
| 47.5° | 223.5 | 213.8 | 205.8 | 200.6 | 199.2 | 198.6 | 199.6 | 202.1 | 205.2 | 208.2 | 211.9 |
| 50°   | 209.1 | 200.0 | 193.2 | 188.7 | 187.0 | 187.7 | 189.3 | 191.6 | 195.5 | 199.6 | 203.5 |
| 52.5° | 194.5 | 186.4 | 180.3 | 176.1 | 175.1 | 176.3 | 178.0 | 181.9 | 185.2 | 189.7 | 194.7 |
| 55°   | 179.2 | 172.2 | 167.3 | 164.2 | 163.8 | 164.4 | 166.3 | 170.2 | 175.1 | 180.7 | 185.2 |
| 57.5° | 164.2 | 158.2 | 153.5 | 151.2 | 151.4 | 151.9 | 154.7 | 159.5 | 164.4 | 170.4 | 176.1 |
| 60°   | 149.0 | 143.6 | 139.9 | 138.3 | 138.5 | 139.7 | 143.4 | 147.7 | 154.3 | 160.1 | 166.3 |
| 62.5° | 134.6 | 130.0 | 126.5 | 125.1 | 124.7 | 127.8 | 131.3 | 135.8 | 142.4 | 149.0 | 155.8 |
| 65°   | 118.9 | 115.2 | 112.4 | 111.5 | 112.1 | 114.2 | 118.7 | 124.7 | 130.3 | 137.0 | 144.0 |
| 67.5° | 103.7 | 100.6 | 98.6  | 99.0  | 99.6  | 102.5 | 106.4 | 111.5 | 117.7 | 124.7 | 131.9 |
| 70°   | 89.3  | 86.4  | 84.8  | 85.0  | 86.2  | 89.9  | 93.2  | 98.4  | 105.1 | 112.4 | 118.1 |
| 72.5° | 74.5  | 72.8  | 71.4  | 72.4  | 73.7  | 75.9  | 80.3  | 85.4  | 91.2  | 97.7  | 103.9 |
| 75°   | 59.5  | 59.5  | 58.6  | 59.3  | 61.1  | 63.6  | 66.7  | 72.0  | 78.0  | 83.3  | 88.3  |
| 77.5° | 46.7  | 46.1  | 46.5  | 47.1  | 48.4  | 51.4  | 54.9  | 58.9  | 63.6  | 69.1  | 73.3  |
| 80°   | 33.7  | 34.0  | 35.0  | 36.2  | 36.6  | 38.9  | 42.6  | 46.1  | 49.6  | 54.1  | 58.0  |
| 82.5° | 23.3  | 23.5  | 23.9  | 25.5  | 25.9  | 28.4  | 30.5  | 34.0  | 37.0  | 39.7  | 42.8  |
| 85°   | 13.8  | 13.8  | 14.8  | 15.4  | 16.5  | 18.1  | 19.5  | 21.6  | 24.5  | 26.5  | 29.6  |
| 87.5° | 6.6   | 6.6   | 7.4   | 7.8   | 8.4   | 9.5   | 9.9   | 12.1  | 13.0  | 14.0  | 15.8  |
| 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: P242633

CATALOG NUMBER: S124DR-S350D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 496.7 | 496.7 | 496.7 | 496.7 |
| 2.5°  | 467.5 | 467.1 | 465.7 | 465.5 |
| 5°    | 437.3 | 436.2 | 435.6 | 437.9 |
| 7.5°  | 414.4 | 413.6 | 411.7 | 411.1 |
| 10°   | 392.6 | 391.8 | 390.1 | 389.7 |
| 12.5° | 371.6 | 369.8 | 369.8 | 370.4 |
| 15°   | 353.5 | 352.7 | 350.4 | 351.0 |
| 17.5° | 335.0 | 334.2 | 331.1 | 334.2 |
| 20°   | 317.7 | 316.1 | 314.6 | 314.4 |
| 22.5° | 301.2 | 299.8 | 300.0 | 298.4 |
| 25°   | 288.1 | 286.6 | 286.2 | 285.2 |
| 27.5° | 277.4 | 276.6 | 275.7 | 276.1 |
| 30°   | 267.7 | 267.5 | 267.1 | 267.1 |
| 32.5° | 259.7 | 259.7 | 260.1 | 260.1 |
| 35°   | 252.3 | 252.9 | 253.3 | 252.7 |
| 37.5° | 245.7 | 246.1 | 246.7 | 247.3 |
| 40°   | 237.9 | 239.3 | 239.7 | 240.8 |
| 42.5° | 230.5 | 232.1 | 233.3 | 233.3 |
| 45°   | 222.8 | 224.5 | 225.9 | 225.9 |
| 47.5° | 215.0 | 217.3 | 218.7 | 218.9 |
| 50°   | 207.0 | 209.9 | 211.3 | 212.4 |
| 52.5° | 199.2 | 202.1 | 204.1 | 204.5 |
| 55°   | 189.9 | 194.0 | 196.3 | 197.1 |
| 57.5° | 181.7 | 185.4 | 187.9 | 188.5 |
| 60°   | 171.8 | 175.9 | 179.2 | 179.8 |
| 62.5° | 161.7 | 166.1 | 168.9 | 170.8 |
| 65°   | 149.8 | 154.1 | 157.0 | 157.6 |
| 67.5° | 137.2 | 141.8 | 143.6 | 144.9 |
| 70°   | 123.9 | 127.4 | 129.4 | 130.5 |
| 72.5° | 108.6 | 112.4 | 114.8 | 114.8 |
| 75°   | 93.0  | 96.3  | 97.5  | 97.5  |
| 77.5° | 76.8  | 78.6  | 80.3  | 80.7  |
| 80°   | 61.1  | 62.1  | 63.4  | 63.4  |
| 82.5° | 45.1  | 45.9  | 47.1  | 46.9  |
| 85°   | 29.2  | 31.1  | 30.9  | 30.5  |
| 87.5° | 16.5  | 16.7  | 17.3  | 17.7  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)