

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: P242638

Luminaire Tested: **S124DR-S350D835-X4F0-XX-UDD-A-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242638
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-S350D835-X4F0-XX-UDD-A-W
Description: DEFINE 4 DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1454.2 lumens
Efficiency: N/A
Efficacy: 125.4 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

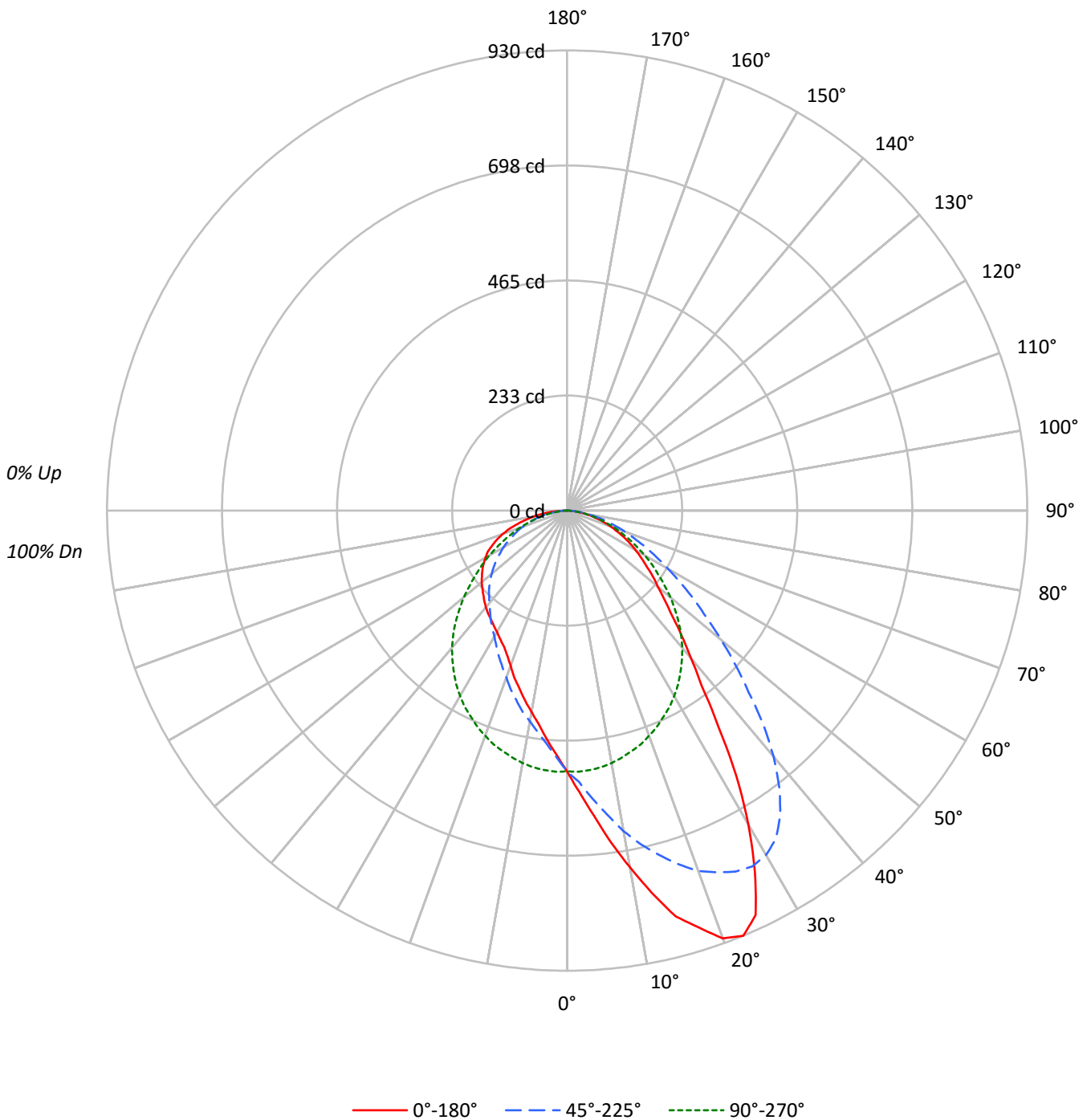
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242638

CATALOG NUMBER: S124DR-S350D835-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P242638

CATALOG NUMBER: S124DR-S350D835-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 | 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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 84 | 79 | 87 | 82 | 78 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | | | 72 | | | |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 | | | | | 62 | | | |
| 4 | 84 | 73 | 64 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 55 | 53 | | | | | 53 | | | |
| 5 | 78 | 65 | 57 | 50 | 76 | 64 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 46 | | | | | 46 | | | |
| 6 | 72 | 59 | 51 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 44 | 55 | 48 | 43 | 53 | 47 | 43 | 41 | | | | | 41 | | | |
| 7 | 67 | 54 | 45 | 39 | 65 | 53 | 45 | 39 | 52 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 38 | 36 | | | | | 36 | | | |
| 8 | 62 | 49 | 41 | 35 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 | | | | | 30 | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | 27 | | | | | 27 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|------|------|------|
| 0° | 4684 | 4684 | 4684 |
| 5° | 5517 | 4697 | 4146 |
| 10° | 6605 | 4676 | 3732 |
| 15° | 7815 | 4629 | 3427 |
| 20° | 8703 | 4580 | 3156 |
| 25° | 8843 | 4510 | 2968 |
| 30° | 7525 | 4441 | 2909 |
| 35° | 5785 | 4331 | 2909 |
| 40° | 4509 | 4201 | 2964 |
| 45° | 3760 | 4004 | 3013 |
| 50° | 3309 | 3764 | 3116 |
| 55° | 3031 | 3478 | 3240 |
| 60° | 2841 | 3221 | 3392 |
| 65° | 2644 | 2934 | 3517 |
| 70° | 2417 | 2651 | 3597 |
| 75° | 2160 | 2332 | 3555 |
| 80° | 1812 | 1909 | 3440 |
| 85° | 1336 | 1377 | 3294 |



TEST NUMBER: P242638

CATALOG NUMBER: S124DR-S350D835-X4F0-XX-UDD-A-W

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.3 | 3.5 |
| 10°-20° | 158.3 | 10.9 |
| 20°-30° | 251.5 | 17.3 |
| 30°-40° | 279.4 | 19.2 |
| 40°-50° | 254.1 | 17.5 |
| 50°-60° | 207.7 | 14.3 |
| 60°-70° | 148.3 | 10.2 |
| 70°-80° | 81.6 | 5.6 |
| 80°-90° | 22.0 | 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° | 461.1 | 31.7 |
| 0°-40° | 740.6 | 50.9 |
| 0°-60° | 1202.4 | 82.7 |
| 0°-90° | 1454.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1454.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 527 | 527 | 527 | 527 | 527 | |
| 5° | 618 | 584 | 526 | 473 | 465 | 63 |
| 15° | 849 | 721 | 503 | 396 | 372 | 240 |
| 25° | 902 | 805 | 460 | 326 | 303 | 400 |
| 35° | 533 | 751 | 399 | 269 | 268 | 337 |
| 45° | 299 | 518 | 318 | 223 | 240 | 235 |
| 55° | 196 | 312 | 224 | 174 | 209 | 177 |
| 65° | 126 | 174 | 140 | 121 | 167 | 124 |
| 75° | 63 | 81 | 68 | 68 | 104 | 67 |
| 85° | 13 | 17 | 14 | 19 | 32 | 16 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P242638

CATALOG NUMBER: S124DR-S350D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 |
| 2.5° | 569.4 | 569.1 | 567.0 | 566.5 | 565.0 | 563.0 | 562.6 | 559.1 | 552.1 | 548.8 | 548.0 |
| 5° | 618.3 | 622.6 | 617.0 | 615.9 | 615.2 | 608.0 | 604.3 | 599.9 | 589.9 | 584.0 | 579.4 |
| 7.5° | 675.5 | 675.7 | 673.3 | 670.9 | 666.7 | 660.6 | 652.3 | 642.7 | 631.1 | 619.4 | 611.1 |
| 10° | 731.8 | 733.5 | 730.7 | 730.3 | 719.1 | 712.1 | 698.2 | 686.4 | 672.8 | 657.8 | 644.0 |
| 12.5° | 791.2 | 787.7 | 786.6 | 775.0 | 775.2 | 761.0 | 744.2 | 732.0 | 709.3 | 691.4 | 672.0 |
| 15° | 849.2 | 844.4 | 841.4 | 828.5 | 822.2 | 804.5 | 787.2 | 773.9 | 746.6 | 720.7 | 701.0 |
| 17.5° | 882.9 | 888.8 | 880.9 | 875.7 | 858.4 | 846.8 | 829.6 | 802.3 | 782.0 | 749.7 | 727.2 |
| 20° | 920.0 | 920.4 | 916.5 | 911.0 | 898.1 | 882.4 | 863.2 | 832.6 | 807.1 | 775.0 | 741.0 |
| 22.5° | 930.0 | 930.0 | 928.9 | 923.9 | 915.0 | 902.9 | 883.5 | 859.3 | 827.0 | 791.4 | 757.3 |
| 25° | 901.6 | 900.8 | 902.7 | 908.4 | 904.7 | 900.8 | 889.6 | 870.6 | 841.8 | 804.9 | 768.2 |
| 27.5° | 821.3 | 827.0 | 838.8 | 852.7 | 862.8 | 871.7 | 871.1 | 863.0 | 842.5 | 810.6 | 771.5 |
| 30° | 733.1 | 740.5 | 748.8 | 762.8 | 789.9 | 805.4 | 822.4 | 835.3 | 828.1 | 803.8 | 768.0 |
| 32.5° | 636.2 | 636.6 | 649.9 | 666.3 | 690.5 | 723.9 | 753.4 | 782.9 | 795.5 | 785.7 | 757.3 |
| 35° | 533.1 | 536.2 | 549.5 | 565.2 | 595.6 | 632.0 | 672.6 | 708.9 | 738.8 | 750.8 | 735.5 |
| 37.5° | 446.7 | 456.3 | 466.3 | 484.2 | 511.9 | 544.9 | 588.6 | 633.8 | 677.6 | 704.3 | 707.1 |
| 40° | 388.6 | 394.1 | 400.8 | 413.7 | 436.4 | 468.7 | 505.0 | 558.7 | 606.0 | 648.8 | 662.8 |
| 42.5° | 342.8 | 345.4 | 348.9 | 360.2 | 376.2 | 408.2 | 440.6 | 486.2 | 533.8 | 587.0 | 612.8 |
| 45° | 299.1 | 302.4 | 309.3 | 316.1 | 329.2 | 351.5 | 382.3 | 421.1 | 468.9 | 518.3 | 561.5 |
| 47.5° | 266.3 | 268.5 | 272.9 | 280.3 | 292.1 | 307.2 | 333.4 | 366.3 | 413.0 | 460.9 | 507.1 |
| 50° | 239.3 | 241.0 | 244.3 | 250.8 | 259.4 | 272.5 | 293.0 | 323.3 | 358.0 | 406.3 | 451.5 |
| 52.5° | 217.9 | 218.3 | 220.5 | 224.4 | 230.8 | 241.2 | 257.2 | 281.0 | 312.6 | 354.3 | 399.3 |
| 55° | 195.6 | 196.5 | 198.7 | 201.9 | 207.8 | 214.8 | 227.7 | 246.5 | 274.6 | 312.0 | 351.0 |
| 57.5° | 177.3 | 178.1 | 179.9 | 181.2 | 186.4 | 192.3 | 202.8 | 216.3 | 238.4 | 271.6 | 307.2 |
| 60° | 159.8 | 159.4 | 161.6 | 162.6 | 165.9 | 170.7 | 178.4 | 191.2 | 209.8 | 235.3 | 267.4 |
| 62.5° | 142.8 | 142.1 | 143.9 | 145.4 | 146.9 | 150.9 | 156.7 | 166.1 | 180.3 | 202.8 | 229.4 |
| 65° | 125.7 | 124.9 | 126.0 | 127.7 | 129.5 | 131.6 | 136.2 | 145.2 | 157.2 | 173.8 | 195.0 |
| 67.5° | 108.3 | 109.4 | 109.4 | 110.5 | 111.6 | 114.6 | 117.9 | 124.9 | 133.4 | 146.9 | 165.7 |
| 70° | 93.0 | 93.2 | 94.1 | 94.1 | 94.7 | 97.4 | 100.0 | 103.7 | 112.0 | 124.2 | 138.8 |
| 72.5° | 77.7 | 78.8 | 78.2 | 79.0 | 79.5 | 81.0 | 82.7 | 86.2 | 93.0 | 101.3 | 113.1 |
| 75° | 62.9 | 63.5 | 63.5 | 63.7 | 64.4 | 65.1 | 66.6 | 69.2 | 74.2 | 81.0 | 89.5 |
| 77.5° | 48.5 | 48.5 | 48.9 | 49.8 | 49.8 | 50.9 | 52.2 | 54.1 | 57.0 | 62.0 | 67.5 |
| 80° | 35.4 | 35.8 | 35.6 | 36.0 | 36.0 | 36.9 | 37.3 | 40.0 | 41.0 | 44.1 | 48.2 |
| 82.5° | 23.6 | 24.0 | 24.0 | 24.7 | 25.1 | 25.1 | 25.8 | 26.4 | 27.5 | 30.1 | 31.2 |
| 85° | 13.1 | 13.5 | 13.1 | 13.5 | 14.2 | 14.4 | 15.1 | 15.3 | 16.2 | 16.8 | 18.3 |
| 87.5° | 4.8 | 5.5 | 5.5 | 5.7 | 6.1 | 6.3 | 6.5 | 6.3 | 7.2 | 7.4 | 8.3 |
| 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: P242638

CATALOG NUMBER: S124DR-S350D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 |
| 2.5° | 548.2 | 545.1 | 542.9 | 541.2 | 536.4 | 533.6 | 531.4 | 528.3 | 524.8 | 521.1 | 516.5 |
| 5° | 574.8 | 567.4 | 561.9 | 553.6 | 545.8 | 539.2 | 532.5 | 526.4 | 518.9 | 510.9 | 505.0 |
| 7.5° | 602.1 | 591.8 | 578.1 | 567.4 | 554.5 | 543.4 | 533.6 | 523.3 | 512.4 | 501.9 | 492.1 |
| 10° | 627.9 | 613.7 | 598.0 | 579.4 | 561.9 | 546.4 | 532.0 | 518.1 | 504.5 | 491.0 | 479.4 |
| 12.5° | 655.6 | 637.0 | 611.9 | 589.4 | 569.4 | 547.3 | 529.2 | 511.3 | 494.3 | 479.9 | 465.9 |
| 15° | 679.8 | 654.3 | 627.4 | 598.4 | 572.6 | 548.4 | 524.6 | 503.0 | 484.7 | 465.9 | 452.8 |
| 17.5° | 695.1 | 663.5 | 634.6 | 604.3 | 574.6 | 544.3 | 519.6 | 495.4 | 472.6 | 454.3 | 437.9 |
| 20° | 710.2 | 678.7 | 640.5 | 610.2 | 573.1 | 541.6 | 511.9 | 484.2 | 460.2 | 440.3 | 423.3 |
| 22.5° | 723.3 | 685.7 | 647.5 | 605.2 | 568.3 | 534.4 | 501.2 | 473.3 | 448.6 | 427.5 | 411.3 |
| 25° | 726.3 | 684.6 | 643.2 | 603.4 | 561.5 | 522.0 | 492.5 | 459.8 | 433.6 | 411.5 | 394.1 |
| 27.5° | 727.4 | 683.3 | 637.3 | 594.0 | 550.8 | 514.8 | 476.4 | 447.8 | 420.7 | 397.3 | 380.7 |
| 30° | 725.0 | 678.5 | 628.1 | 580.3 | 536.8 | 496.9 | 464.6 | 432.7 | 405.0 | 381.8 | 364.4 |
| 32.5° | 717.4 | 668.5 | 616.3 | 565.0 | 519.6 | 480.7 | 447.1 | 417.2 | 390.3 | 367.6 | 349.1 |
| 35° | 701.2 | 653.4 | 598.2 | 545.6 | 499.5 | 460.0 | 429.9 | 399.1 | 372.0 | 350.4 | 332.7 |
| 37.5° | 679.6 | 635.1 | 579.0 | 524.2 | 479.9 | 439.7 | 409.3 | 381.0 | 356.5 | 334.2 | 315.9 |
| 40° | 649.5 | 611.5 | 555.2 | 502.1 | 453.2 | 415.4 | 387.5 | 362.0 | 337.7 | 317.0 | 299.7 |
| 42.5° | 614.8 | 582.9 | 532.0 | 475.0 | 428.3 | 390.3 | 363.3 | 341.0 | 318.5 | 299.7 | 282.5 |
| 45° | 572.2 | 550.4 | 501.5 | 449.5 | 400.4 | 364.6 | 338.6 | 318.5 | 299.3 | 280.5 | 266.1 |
| 47.5° | 524.8 | 512.6 | 470.0 | 420.3 | 373.1 | 337.3 | 314.8 | 295.6 | 278.1 | 261.8 | 248.9 |
| 50° | 477.0 | 471.8 | 436.2 | 388.6 | 344.1 | 310.9 | 288.2 | 272.2 | 257.8 | 243.9 | 231.8 |
| 52.5° | 429.9 | 431.0 | 399.7 | 357.2 | 316.8 | 285.1 | 262.6 | 248.0 | 236.0 | 225.3 | 214.8 |
| 55° | 381.6 | 387.7 | 362.6 | 323.8 | 286.9 | 258.0 | 237.7 | 224.4 | 215.7 | 206.3 | 198.2 |
| 57.5° | 337.3 | 347.6 | 325.7 | 290.1 | 258.9 | 231.4 | 213.5 | 203.2 | 193.6 | 187.5 | 181.2 |
| 60° | 294.1 | 303.7 | 287.5 | 258.7 | 229.7 | 207.0 | 190.2 | 181.2 | 173.1 | 169.2 | 165.0 |
| 62.5° | 255.6 | 263.9 | 253.0 | 226.8 | 202.6 | 181.0 | 167.4 | 158.9 | 154.1 | 149.8 | 147.4 |
| 65° | 219.4 | 226.6 | 216.3 | 196.9 | 175.3 | 157.8 | 146.3 | 139.5 | 134.3 | 132.5 | 129.5 |
| 67.5° | 183.6 | 190.2 | 184.7 | 167.7 | 149.3 | 135.6 | 126.4 | 119.2 | 116.1 | 114.4 | 112.4 |
| 70° | 152.4 | 158.9 | 153.0 | 138.6 | 125.3 | 114.2 | 105.7 | 102.0 | 98.7 | 98.0 | 95.0 |
| 72.5° | 126.0 | 129.9 | 124.0 | 113.5 | 102.6 | 93.7 | 87.5 | 83.6 | 82.3 | 81.0 | 79.7 |
| 75° | 98.5 | 102.4 | 98.5 | 89.7 | 81.6 | 75.1 | 69.4 | 67.9 | 65.9 | 65.3 | 64.2 |
| 77.5° | 73.8 | 77.5 | 74.4 | 68.6 | 62.2 | 56.8 | 53.5 | 51.3 | 51.1 | 49.8 | 50.2 |
| 80° | 53.3 | 55.5 | 52.6 | 48.9 | 44.1 | 40.6 | 38.4 | 37.3 | 36.0 | 35.6 | 36.5 |
| 82.5° | 34.5 | 35.1 | 34.1 | 31.9 | 28.6 | 26.6 | 25.3 | 24.0 | 24.0 | 24.2 | 24.0 |
| 85° | 19.9 | 19.6 | 19.4 | 17.2 | 16.2 | 14.6 | 13.8 | 13.5 | 13.3 | 13.8 | 14.2 |
| 87.5° | 8.3 | 8.5 | 8.3 | 7.4 | 6.8 | 6.1 | 5.9 | 5.7 | 5.9 | 6.1 | 6.3 |
| 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: P242638

CATALOG NUMBER: S124DR-S350D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 | 527.0 |
| 2.5° | 514.3 | 512.4 | 509.5 | 505.6 | 502.3 | 498.8 | 498.0 | 496.7 | 499.3 | 497.1 | 496.4 |
| 5° | 499.9 | 495.4 | 489.5 | 482.7 | 478.8 | 473.1 | 472.0 | 469.8 | 467.6 | 467.4 | 465.2 |
| 7.5° | 484.9 | 478.5 | 471.1 | 464.1 | 458.0 | 451.9 | 448.0 | 447.5 | 444.0 | 442.3 | 440.1 |
| 10° | 470.5 | 462.2 | 453.2 | 446.7 | 439.2 | 432.7 | 428.1 | 425.5 | 423.3 | 420.9 | 418.7 |
| 12.5° | 453.4 | 444.5 | 437.5 | 430.3 | 421.1 | 416.5 | 408.2 | 403.2 | 403.2 | 403.9 | 397.3 |
| 15° | 441.0 | 432.3 | 420.9 | 410.9 | 406.1 | 396.5 | 392.3 | 387.1 | 383.8 | 380.5 | 377.9 |
| 17.5° | 425.7 | 415.0 | 406.3 | 394.9 | 386.0 | 378.8 | 373.1 | 370.3 | 365.0 | 360.2 | 356.9 |
| 20° | 411.5 | 399.9 | 390.6 | 378.3 | 368.3 | 358.9 | 354.3 | 350.0 | 346.2 | 342.3 | 338.6 |
| 22.5° | 397.1 | 384.9 | 372.9 | 361.1 | 351.9 | 341.9 | 337.5 | 331.2 | 327.7 | 325.9 | 322.2 |
| 25° | 381.8 | 368.7 | 355.6 | 344.3 | 334.7 | 325.9 | 320.0 | 315.5 | 311.5 | 309.8 | 307.4 |
| 27.5° | 365.2 | 352.4 | 339.9 | 326.8 | 315.7 | 309.3 | 304.5 | 300.8 | 298.4 | 295.8 | 294.7 |
| 30° | 349.5 | 336.0 | 322.4 | 310.4 | 300.4 | 294.1 | 289.7 | 287.3 | 285.6 | 284.5 | 283.4 |
| 32.5° | 333.6 | 320.3 | 305.9 | 295.2 | 286.4 | 281.0 | 277.9 | 275.5 | 274.9 | 274.6 | 274.4 |
| 35° | 316.3 | 302.8 | 289.7 | 279.9 | 271.4 | 269.2 | 266.3 | 265.0 | 264.6 | 266.1 | 266.8 |
| 37.5° | 299.7 | 287.1 | 274.9 | 265.0 | 259.4 | 255.9 | 254.8 | 254.6 | 256.1 | 257.4 | 258.9 |
| 40° | 283.8 | 271.6 | 260.2 | 251.9 | 246.7 | 244.7 | 244.3 | 245.4 | 247.1 | 248.7 | 250.4 |
| 42.5° | 268.3 | 256.3 | 246.3 | 238.6 | 235.3 | 233.6 | 234.0 | 235.1 | 237.7 | 239.7 | 242.5 |
| 45° | 252.2 | 242.1 | 232.1 | 225.7 | 222.7 | 223.1 | 223.1 | 225.1 | 227.5 | 230.3 | 233.2 |
| 47.5° | 237.1 | 226.8 | 218.3 | 212.9 | 211.3 | 210.7 | 211.8 | 214.4 | 217.7 | 220.9 | 224.9 |
| 50° | 221.8 | 212.2 | 205.0 | 200.2 | 198.4 | 199.1 | 200.8 | 203.2 | 207.4 | 211.8 | 215.9 |
| 52.5° | 206.3 | 197.8 | 191.2 | 186.9 | 185.8 | 187.1 | 188.8 | 193.0 | 196.5 | 201.3 | 206.5 |
| 55° | 190.2 | 182.7 | 177.5 | 174.2 | 173.8 | 174.4 | 176.4 | 180.5 | 185.8 | 191.7 | 196.5 |
| 57.5° | 174.2 | 167.9 | 162.9 | 160.5 | 160.7 | 161.1 | 164.2 | 169.2 | 174.4 | 180.8 | 186.9 |
| 60° | 158.1 | 152.4 | 148.5 | 146.7 | 146.9 | 148.2 | 152.2 | 156.7 | 163.7 | 169.8 | 176.4 |
| 62.5° | 142.8 | 138.0 | 134.3 | 132.7 | 132.3 | 135.6 | 139.3 | 144.1 | 151.1 | 158.1 | 165.3 |
| 65° | 126.2 | 122.3 | 119.2 | 118.3 | 119.0 | 121.2 | 126.0 | 132.3 | 138.2 | 145.4 | 152.8 |
| 67.5° | 110.0 | 106.8 | 104.6 | 105.0 | 105.7 | 108.7 | 112.9 | 118.3 | 124.9 | 132.3 | 139.9 |
| 70° | 94.7 | 91.7 | 89.9 | 90.2 | 91.5 | 95.4 | 98.9 | 104.4 | 111.6 | 119.2 | 125.3 |
| 72.5° | 79.0 | 77.3 | 75.8 | 76.8 | 78.2 | 80.6 | 85.1 | 90.6 | 96.7 | 103.7 | 110.2 |
| 75° | 63.1 | 63.1 | 62.2 | 62.9 | 64.8 | 67.5 | 70.7 | 76.4 | 82.7 | 88.4 | 93.7 |
| 77.5° | 49.6 | 48.9 | 49.3 | 50.0 | 51.3 | 54.6 | 58.3 | 62.4 | 67.5 | 73.4 | 77.7 |
| 80° | 35.8 | 36.0 | 37.1 | 38.4 | 38.9 | 41.3 | 45.2 | 48.9 | 52.6 | 57.4 | 61.6 |
| 82.5° | 24.7 | 24.9 | 25.3 | 27.1 | 27.5 | 30.1 | 32.3 | 36.0 | 39.3 | 42.1 | 45.4 |
| 85° | 14.6 | 14.6 | 15.7 | 16.4 | 17.5 | 19.2 | 20.7 | 22.9 | 26.0 | 28.2 | 31.4 |
| 87.5° | 7.0 | 7.0 | 7.9 | 8.3 | 9.0 | 10.0 | 10.5 | 12.9 | 13.8 | 14.8 | 16.8 |
| 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: P242638

CATALOG NUMBER: S124DR-S350D835-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 527.0 | 527.0 | 527.0 | 527.0 |
| 2.5° | 496.0 | 495.6 | 494.0 | 493.8 |
| 5° | 463.9 | 462.8 | 462.2 | 464.6 |
| 7.5° | 439.7 | 438.8 | 436.8 | 436.2 |
| 10° | 416.5 | 415.7 | 413.9 | 413.5 |
| 12.5° | 394.3 | 392.3 | 392.3 | 393.0 |
| 15° | 375.1 | 374.2 | 371.8 | 372.4 |
| 17.5° | 355.4 | 354.5 | 351.3 | 354.5 |
| 20° | 337.1 | 335.3 | 333.8 | 333.6 |
| 22.5° | 319.6 | 318.1 | 318.3 | 316.6 |
| 25° | 305.6 | 304.1 | 303.7 | 302.6 |
| 27.5° | 294.3 | 293.4 | 292.5 | 293.0 |
| 30° | 284.0 | 283.8 | 283.4 | 283.4 |
| 32.5° | 275.5 | 275.5 | 275.9 | 275.9 |
| 35° | 267.7 | 268.3 | 268.7 | 268.1 |
| 37.5° | 260.7 | 261.1 | 261.8 | 262.4 |
| 40° | 252.4 | 253.9 | 254.3 | 255.4 |
| 42.5° | 244.5 | 246.3 | 247.6 | 247.6 |
| 45° | 236.4 | 238.2 | 239.7 | 239.7 |
| 47.5° | 228.1 | 230.5 | 232.1 | 232.3 |
| 50° | 219.6 | 222.7 | 224.2 | 225.3 |
| 52.5° | 211.3 | 214.4 | 216.6 | 217.0 |
| 55° | 201.5 | 205.9 | 208.3 | 209.1 |
| 57.5° | 192.8 | 196.7 | 199.3 | 200.0 |
| 60° | 182.3 | 186.7 | 190.2 | 190.8 |
| 62.5° | 171.6 | 176.2 | 179.2 | 181.2 |
| 65° | 158.9 | 163.5 | 166.6 | 167.2 |
| 67.5° | 145.6 | 150.4 | 152.4 | 153.7 |
| 70° | 131.4 | 135.1 | 137.3 | 138.4 |
| 72.5° | 115.3 | 119.2 | 121.8 | 121.8 |
| 75° | 98.7 | 102.2 | 103.5 | 103.5 |
| 77.5° | 81.4 | 83.4 | 85.1 | 85.6 |
| 80° | 64.8 | 65.9 | 67.2 | 67.2 |
| 82.5° | 47.8 | 48.7 | 50.0 | 49.8 |
| 85° | 31.0 | 33.0 | 32.7 | 32.3 |
| 87.5° | 17.5 | 17.7 | 18.3 | 18.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)