

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: PORTFOLIO

Report Number: P843411

Luminaire Tested: **LD4C15DE010B50 EU4C15B50 4LBLDWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C15DE010B50 EU4C15B50 4LBLDWLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

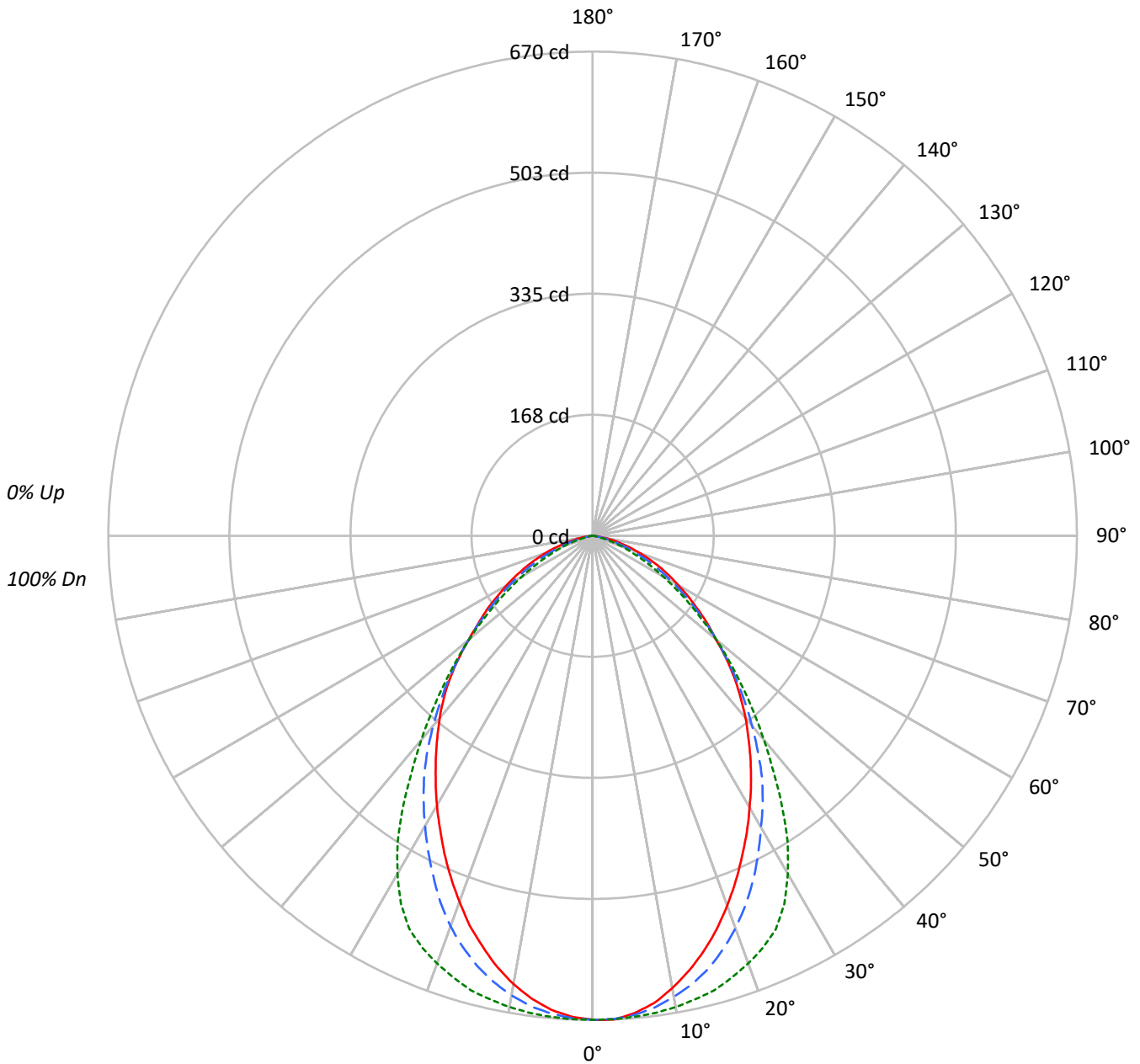
Lumens per Lamp: N/A
Luminaire Lumens: 1230.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17
Input Voltage (V):
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: P843411

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBDWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P843411

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBDWWLI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 82275 | 82275 | 82275 |
| 5° | 81788 | 82404 | 81183 |
| 10° | 79290 | 82609 | 78604 |
| 15° | 75651 | 82799 | 74837 |
| 20° | 71187 | 82326 | 70402 |
| 25° | 66313 | 81346 | 65757 |
| 30° | 61609 | 76604 | 61113 |
| 35° | 57141 | 68524 | 56721 |
| 40° | 52811 | 59098 | 52779 |
| 45° | 48126 | 50437 | 48526 |
| 50° | 42506 | 42659 | 42755 |
| 55° | 38083 | 34870 | 38233 |
| 60° | 33662 | 27691 | 33736 |
| 65° | 29651 | 21134 | 29331 |
| 70° | 24569 | 15122 | 24569 |
| 75° | 19129 | 8686 | 18417 |
| 80° | 12452 | 2122 | 11886 |
| 85° | 4652 | 705 | 3524 |



TEST NUMBER: P843411

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.9 | 5.1 |
| 10°-20° | 173.9 | 14.1 |
| 20°-30° | 243.2 | 19.8 |
| 30°-40° | 256.5 | 20.9 |
| 40°-50° | 218.2 | 17.7 |
| 50°-60° | 154.0 | 12.5 |
| 60°-70° | 87.3 | 7.1 |
| 70°-80° | 31.1 | 2.5 |
| 80°-90° | 3.0 | 0.2 |
| 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° | 480.0 | 39.0 |
| 0°-40° | 736.5 | 59.9 |
| 0°-60° | 1108.6 | 90.1 |
| 0°-90° | 1230.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1230.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 670 | 670 | 670 | 670 | 670 | |
| 5° | 663 | 666 | 668 | 664 | 658 | 62 |
| 15° | 595 | 620 | 651 | 616 | 588 | 167 |
| 25° | 489 | 526 | 600 | 521 | 485 | 225 |
| 35° | 381 | 408 | 457 | 406 | 378 | 238 |
| 45° | 277 | 281 | 290 | 282 | 279 | 213 |
| 55° | 178 | 172 | 163 | 172 | 178 | 160 |
| 65° | 102 | 87 | 73 | 88 | 101 | 101 |
| 75° | 40 | 28 | 18 | 27 | 39 | 44 |
| 85° | 3 | 1 | 0 | 1 | 2 | 6 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P843411

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBDWWLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 |
| 2.5° | 670.2 | 669.0 | 669.0 | 669.0 | 669.0 | 669.0 | 669.0 | 669.0 | 669.0 | 669.3 | 669.3 |
| 5° | 663.2 | 662.7 | 662.5 | 662.5 | 662.5 | 662.5 | 662.7 | 663.8 | 664.2 | 664.9 | 665.5 |
| 7.5° | 652.2 | 651.2 | 651.7 | 651.7 | 652.2 | 652.7 | 653.5 | 654.5 | 655.9 | 657.0 | 658.3 |
| 10° | 635.6 | 634.7 | 636.0 | 636.5 | 638.0 | 638.7 | 640.0 | 641.5 | 644.4 | 645.9 | 647.9 |
| 12.5° | 616.4 | 615.9 | 616.4 | 618.4 | 619.9 | 620.9 | 622.4 | 625.7 | 628.7 | 631.9 | 635.4 |
| 15° | 594.8 | 593.6 | 594.4 | 596.8 | 599.4 | 601.2 | 602.3 | 606.7 | 610.7 | 615.6 | 619.9 |
| 17.5° | 570.8 | 569.0 | 571.0 | 573.0 | 576.3 | 577.8 | 579.6 | 584.3 | 589.8 | 595.3 | 600.1 |
| 20° | 544.5 | 544.0 | 545.2 | 548.1 | 551.2 | 553.2 | 554.7 | 560.0 | 564.8 | 572.3 | 577.8 |
| 22.5° | 517.2 | 517.7 | 518.7 | 521.7 | 524.0 | 526.7 | 529.0 | 533.8 | 539.3 | 546.3 | 553.2 |
| 25° | 489.2 | 489.9 | 491.7 | 493.7 | 497.4 | 498.9 | 501.6 | 506.7 | 511.5 | 517.9 | 525.7 |
| 27.5° | 462.1 | 462.4 | 464.4 | 465.4 | 468.8 | 472.1 | 473.4 | 478.7 | 484.2 | 489.2 | 495.9 |
| 30° | 434.3 | 435.0 | 436.3 | 439.0 | 442.6 | 443.8 | 445.4 | 450.1 | 454.4 | 460.6 | 465.9 |
| 32.5° | 407.7 | 407.3 | 408.8 | 410.3 | 414.3 | 416.5 | 417.2 | 422.7 | 426.5 | 432.8 | 437.9 |
| 35° | 381.0 | 379.7 | 381.9 | 383.5 | 387.0 | 389.0 | 389.9 | 394.2 | 397.8 | 403.0 | 408.5 |
| 37.5° | 354.2 | 355.2 | 356.2 | 357.4 | 359.2 | 359.7 | 362.7 | 363.7 | 368.2 | 372.2 | 375.2 |
| 40° | 329.3 | 328.8 | 328.4 | 329.7 | 331.9 | 332.8 | 333.2 | 335.9 | 336.9 | 340.9 | 343.1 |
| 42.5° | 302.8 | 303.0 | 302.8 | 303.0 | 304.3 | 304.3 | 305.0 | 306.8 | 307.6 | 308.8 | 311.6 |
| 45° | 277.0 | 277.0 | 276.3 | 276.5 | 276.8 | 276.5 | 276.8 | 277.5 | 279.0 | 279.0 | 281.0 |
| 47.5° | 250.2 | 249.7 | 250.8 | 249.9 | 249.5 | 249.2 | 249.9 | 249.2 | 250.8 | 250.8 | 251.2 |
| 50° | 222.4 | 222.4 | 223.7 | 223.4 | 223.9 | 222.9 | 223.2 | 223.2 | 223.4 | 223.2 | 224.2 |
| 52.5° | 200.8 | 200.4 | 199.9 | 198.6 | 199.2 | 198.1 | 198.1 | 198.4 | 197.6 | 197.4 | 196.1 |
| 55° | 177.8 | 178.3 | 177.6 | 177.0 | 177.0 | 176.1 | 175.8 | 174.3 | 173.3 | 172.6 | 171.9 |
| 57.5° | 157.1 | 157.6 | 157.3 | 156.0 | 154.5 | 154.8 | 154.3 | 152.8 | 150.5 | 149.0 | 147.8 |
| 60° | 137.0 | 137.5 | 137.0 | 135.8 | 135.3 | 134.2 | 134.0 | 132.0 | 130.2 | 128.2 | 126.7 |
| 62.5° | 119.0 | 119.0 | 118.8 | 117.0 | 115.7 | 115.9 | 114.8 | 113.2 | 110.9 | 108.2 | 106.0 |
| 65° | 102.0 | 101.6 | 100.5 | 99.7 | 98.7 | 97.4 | 96.7 | 94.4 | 92.6 | 90.4 | 87.4 |
| 67.5° | 84.9 | 84.2 | 83.7 | 82.9 | 80.7 | 80.4 | 79.4 | 77.4 | 74.9 | 73.2 | 70.6 |
| 70° | 68.4 | 68.1 | 67.2 | 67.2 | 65.4 | 64.6 | 63.1 | 61.3 | 59.1 | 56.6 | 54.6 |
| 72.5° | 54.2 | 53.6 | 52.6 | 51.6 | 50.1 | 49.6 | 48.3 | 46.5 | 44.6 | 42.1 | 39.6 |
| 75° | 40.3 | 39.9 | 39.6 | 38.3 | 37.0 | 35.9 | 35.3 | 33.5 | 31.5 | 29.8 | 27.5 |
| 77.5° | 28.3 | 27.8 | 27.1 | 26.3 | 25.6 | 24.7 | 24.0 | 22.5 | 20.8 | 19.2 | 17.2 |
| 80° | 17.6 | 17.0 | 16.5 | 16.3 | 15.5 | 15.2 | 14.3 | 13.5 | 12.1 | 11.0 | 9.7 |
| 82.5° | 9.0 | 9.0 | 8.6 | 8.2 | 7.7 | 7.5 | 7.3 | 6.6 | 5.7 | 5.0 | 4.2 |
| 85° | 3.3 | 3.3 | 3.0 | 2.7 | 2.7 | 2.5 | 2.5 | 2.2 | 1.8 | 1.8 | 1.3 |
| 87.5° | 0.2 | 0.2 | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.0 |
| 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: P843411

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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 |
| 2.5° | 669.5 | 669.3 | 669.5 | 669.5 | 669.7 | 669.7 | 669.7 | 669.5 | 669.7 | 669.5 | 669.5 |
| 5° | 665.5 | 666.2 | 666.7 | 667.3 | 667.5 | 667.8 | 667.8 | 668.0 | 668.2 | 668.2 | 668.0 |
| 7.5° | 659.2 | 660.7 | 662.2 | 663.2 | 663.8 | 664.2 | 664.9 | 665.5 | 666.0 | 665.8 | 665.5 |
| 10° | 651.0 | 653.5 | 655.4 | 657.4 | 658.5 | 659.2 | 660.5 | 661.4 | 662.0 | 662.2 | 661.4 |
| 12.5° | 639.2 | 642.7 | 645.9 | 649.2 | 650.7 | 651.7 | 654.3 | 655.9 | 657.0 | 657.0 | 656.3 |
| 15° | 624.4 | 629.4 | 634.2 | 638.4 | 640.9 | 642.4 | 646.2 | 648.8 | 650.2 | 651.0 | 649.7 |
| 17.5° | 606.7 | 612.4 | 618.2 | 623.7 | 626.1 | 628.4 | 633.6 | 637.2 | 640.4 | 640.9 | 639.4 |
| 20° | 583.8 | 591.1 | 597.6 | 604.3 | 607.1 | 610.7 | 616.6 | 622.4 | 627.4 | 629.7 | 625.4 |
| 22.5° | 558.3 | 566.3 | 572.3 | 580.5 | 584.3 | 588.0 | 595.9 | 603.2 | 611.8 | 616.6 | 609.1 |
| 25° | 531.8 | 538.5 | 545.7 | 553.8 | 559.1 | 563.1 | 572.1 | 581.4 | 593.1 | 600.1 | 589.6 |
| 27.5° | 503.2 | 509.1 | 517.9 | 526.7 | 530.7 | 535.7 | 546.5 | 556.5 | 567.8 | 574.1 | 566.3 |
| 30° | 473.6 | 481.1 | 489.4 | 497.4 | 503.2 | 508.0 | 516.8 | 525.2 | 534.7 | 540.0 | 534.2 |
| 32.5° | 444.3 | 451.6 | 458.6 | 467.4 | 470.6 | 474.9 | 482.6 | 489.9 | 497.2 | 502.0 | 495.2 |
| 35° | 413.5 | 420.0 | 426.5 | 432.6 | 434.1 | 439.0 | 445.4 | 449.6 | 453.1 | 456.9 | 452.3 |
| 37.5° | 380.0 | 385.0 | 388.3 | 394.7 | 397.2 | 398.0 | 403.0 | 406.0 | 409.7 | 410.5 | 410.3 |
| 40° | 345.8 | 350.4 | 353.1 | 357.2 | 359.2 | 359.2 | 362.7 | 365.4 | 368.2 | 368.5 | 368.2 |
| 42.5° | 314.1 | 316.3 | 318.6 | 321.1 | 320.6 | 323.6 | 325.1 | 326.4 | 328.4 | 328.4 | 328.8 |
| 45° | 282.1 | 283.8 | 285.8 | 286.3 | 288.3 | 288.3 | 289.6 | 290.0 | 291.1 | 290.3 | 289.3 |
| 47.5° | 252.2 | 253.0 | 253.2 | 255.5 | 255.9 | 254.3 | 255.7 | 255.9 | 255.7 | 255.7 | 255.2 |
| 50° | 223.9 | 224.4 | 224.2 | 223.4 | 223.7 | 224.4 | 223.7 | 222.6 | 223.2 | 223.2 | 223.7 |
| 52.5° | 196.4 | 195.3 | 194.8 | 194.8 | 193.9 | 193.9 | 192.6 | 192.1 | 191.9 | 190.9 | 192.1 |
| 55° | 171.0 | 169.5 | 167.3 | 166.8 | 166.0 | 165.8 | 164.4 | 163.1 | 162.6 | 162.8 | 162.6 |
| 57.5° | 146.8 | 144.5 | 143.0 | 142.5 | 141.7 | 140.2 | 138.6 | 137.3 | 137.0 | 136.5 | 136.5 |
| 60° | 124.7 | 122.3 | 119.9 | 117.7 | 117.9 | 117.0 | 115.2 | 114.4 | 113.7 | 112.7 | 113.5 |
| 62.5° | 104.7 | 102.0 | 99.4 | 97.2 | 95.7 | 95.0 | 93.7 | 92.4 | 91.7 | 91.0 | 91.9 |
| 65° | 84.9 | 82.6 | 79.9 | 77.6 | 76.9 | 76.1 | 74.9 | 72.9 | 72.7 | 72.7 | 73.2 |
| 67.5° | 67.2 | 64.6 | 62.1 | 60.6 | 59.7 | 58.6 | 58.1 | 57.1 | 56.4 | 55.8 | 56.1 |
| 70° | 51.6 | 49.1 | 47.1 | 45.6 | 44.8 | 44.6 | 42.8 | 42.6 | 42.3 | 42.1 | 41.8 |
| 72.5° | 37.5 | 35.5 | 33.8 | 32.8 | 31.8 | 31.1 | 30.6 | 29.8 | 29.5 | 29.5 | 29.5 |
| 75° | 25.8 | 24.3 | 22.3 | 21.0 | 20.5 | 19.8 | 19.0 | 18.5 | 18.1 | 18.3 | 18.3 |
| 77.5° | 15.5 | 14.1 | 12.8 | 11.7 | 11.5 | 10.8 | 10.0 | 9.5 | 8.8 | 8.8 | 9.0 |
| 80° | 8.6 | 7.3 | 6.2 | 5.5 | 5.0 | 4.8 | 4.0 | 3.8 | 3.3 | 3.0 | 3.0 |
| 82.5° | 3.8 | 3.0 | 2.5 | 2.2 | 2.0 | 1.8 | 1.5 | 1.3 | 1.3 | 1.0 | 1.3 |
| 85° | 1.3 | 1.0 | 0.7 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 87.5° | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBDWWLI

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 |
| 2.5° | 669.3 | 669.3 | 669.0 | 669.0 | 669.0 | 668.5 | 668.5 | 668.2 | 668.0 | 667.8 | 667.3 |
| 5° | 667.5 | 667.3 | 666.7 | 666.5 | 666.2 | 665.5 | 664.7 | 664.2 | 663.5 | 662.5 | 662.0 |
| 7.5° | 664.9 | 664.2 | 663.2 | 662.7 | 662.0 | 660.2 | 659.0 | 657.7 | 656.5 | 654.7 | 652.7 |
| 10° | 660.7 | 659.2 | 657.7 | 656.7 | 655.4 | 653.2 | 650.7 | 648.8 | 645.9 | 643.5 | 640.7 |
| 12.5° | 654.7 | 653.0 | 649.9 | 648.4 | 647.0 | 643.7 | 640.4 | 636.2 | 632.5 | 628.9 | 625.7 |
| 15° | 647.2 | 644.0 | 640.4 | 638.4 | 636.2 | 630.9 | 625.9 | 621.4 | 616.4 | 612.2 | 606.9 |
| 17.5° | 636.2 | 631.4 | 626.4 | 624.1 | 621.1 | 615.1 | 609.1 | 602.9 | 597.1 | 591.9 | 585.3 |
| 20° | 619.7 | 614.4 | 607.9 | 604.3 | 601.9 | 593.9 | 588.0 | 581.1 | 575.0 | 568.6 | 561.3 |
| 22.5° | 600.3 | 593.1 | 585.8 | 580.9 | 578.1 | 570.1 | 562.3 | 556.0 | 549.5 | 542.0 | 536.7 |
| 25° | 578.5 | 569.5 | 560.8 | 555.8 | 551.6 | 543.0 | 535.5 | 529.0 | 521.0 | 514.4 | 509.1 |
| 27.5° | 554.0 | 543.7 | 533.5 | 528.5 | 524.5 | 515.2 | 507.2 | 500.5 | 492.6 | 486.9 | 481.4 |
| 30° | 524.7 | 515.5 | 505.7 | 501.6 | 496.9 | 487.4 | 478.2 | 472.1 | 463.6 | 457.6 | 451.6 |
| 32.5° | 488.2 | 482.2 | 474.3 | 468.8 | 466.4 | 457.6 | 449.8 | 442.6 | 435.3 | 430.6 | 424.5 |
| 35° | 448.1 | 442.8 | 436.3 | 433.3 | 430.0 | 424.5 | 418.3 | 412.1 | 406.2 | 401.8 | 396.2 |
| 37.5° | 407.5 | 402.2 | 398.2 | 395.0 | 393.0 | 387.9 | 384.2 | 379.5 | 375.5 | 371.2 | 368.2 |
| 40° | 365.4 | 363.9 | 359.7 | 358.1 | 357.7 | 352.2 | 348.9 | 345.1 | 342.7 | 340.1 | 338.3 |
| 42.5° | 328.1 | 325.6 | 322.4 | 322.6 | 321.1 | 318.1 | 315.8 | 313.4 | 311.6 | 310.3 | 308.6 |
| 45° | 291.3 | 289.3 | 287.8 | 289.1 | 286.5 | 285.6 | 283.8 | 283.6 | 282.3 | 280.1 | 279.3 |
| 47.5° | 256.3 | 255.9 | 256.3 | 255.5 | 255.0 | 254.5 | 254.7 | 253.5 | 252.2 | 251.5 | 250.4 |
| 50° | 224.2 | 224.4 | 225.0 | 225.7 | 223.9 | 224.6 | 224.4 | 224.2 | 224.2 | 223.4 | 223.9 |
| 52.5° | 193.1 | 193.3 | 193.9 | 194.6 | 194.8 | 194.8 | 195.7 | 196.1 | 197.1 | 198.4 | 198.4 |
| 55° | 163.8 | 165.5 | 166.6 | 167.8 | 167.1 | 168.6 | 169.3 | 171.5 | 172.3 | 172.3 | 173.3 |
| 57.5° | 137.7 | 139.5 | 140.2 | 141.7 | 142.3 | 143.5 | 145.5 | 146.8 | 148.5 | 150.1 | 151.6 |
| 60° | 114.0 | 114.8 | 116.8 | 119.0 | 118.5 | 121.5 | 123.0 | 125.0 | 127.2 | 128.2 | 130.2 |
| 62.5° | 92.6 | 93.7 | 95.2 | 95.9 | 97.7 | 99.2 | 102.7 | 104.7 | 106.7 | 109.3 | 111.2 |
| 65° | 73.6 | 74.7 | 76.1 | 77.6 | 78.4 | 80.7 | 82.4 | 85.9 | 87.7 | 90.4 | 92.6 |
| 67.5° | 56.4 | 57.9 | 59.1 | 60.1 | 60.6 | 62.8 | 65.6 | 67.2 | 70.3 | 73.2 | 74.9 |
| 70° | 42.1 | 43.4 | 44.8 | 44.6 | 45.6 | 47.4 | 49.4 | 51.6 | 54.2 | 56.6 | 58.6 |
| 72.5° | 29.3 | 30.6 | 31.5 | 31.8 | 32.8 | 34.1 | 35.5 | 37.3 | 39.3 | 41.8 | 44.6 |
| 75° | 18.5 | 18.8 | 19.8 | 20.3 | 20.8 | 22.3 | 23.6 | 25.3 | 27.1 | 29.1 | 30.8 |
| 77.5° | 9.3 | 10.0 | 10.5 | 11.0 | 11.3 | 12.5 | 13.7 | 15.2 | 16.8 | 18.8 | 20.5 |
| 80° | 3.5 | 3.8 | 4.5 | 4.8 | 5.3 | 6.0 | 7.0 | 7.7 | 9.0 | 10.5 | 11.5 |
| 82.5° | 1.3 | 1.5 | 1.8 | 1.8 | 2.0 | 2.5 | 2.7 | 3.5 | 4.2 | 4.8 | 5.3 |
| 85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.7 | 1.0 | 1.3 | 1.5 | 1.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: P843411

CATALOG NUMBER: LD4C15DE010B50 EU4C15B50 4LBDWWLI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 | 669.7 |
| 2.5° | 666.9 | 666.9 | 666.7 | 666.5 | 666.5 | 666.5 | 666.2 | 666.2 |
| 5° | 661.0 | 660.2 | 660.0 | 659.4 | 659.2 | 659.0 | 658.3 | 658.3 |
| 7.5° | 651.2 | 650.2 | 649.5 | 648.8 | 647.7 | 647.0 | 647.0 | 645.9 |
| 10° | 638.2 | 636.2 | 635.2 | 634.2 | 632.9 | 631.4 | 630.9 | 630.1 |
| 12.5° | 622.4 | 618.4 | 617.4 | 615.6 | 613.6 | 612.7 | 610.9 | 610.9 |
| 15° | 602.9 | 598.6 | 596.4 | 595.3 | 592.8 | 591.1 | 590.4 | 588.4 |
| 17.5° | 580.1 | 576.8 | 573.3 | 571.9 | 569.0 | 566.8 | 565.8 | 565.5 |
| 20° | 557.1 | 551.8 | 549.5 | 547.2 | 544.0 | 542.0 | 540.5 | 538.5 |
| 22.5° | 530.5 | 525.7 | 522.5 | 521.0 | 518.2 | 514.8 | 512.2 | 512.2 |
| 25° | 502.5 | 498.1 | 496.5 | 493.2 | 489.9 | 488.6 | 485.7 | 485.1 |
| 27.5° | 475.6 | 471.4 | 467.9 | 466.1 | 462.4 | 460.6 | 458.1 | 457.1 |
| 30° | 447.8 | 442.8 | 440.3 | 440.1 | 435.5 | 433.8 | 431.8 | 430.8 |
| 32.5° | 420.0 | 415.8 | 413.2 | 411.7 | 409.7 | 406.8 | 405.0 | 404.0 |
| 35° | 392.5 | 389.7 | 387.5 | 385.7 | 382.4 | 381.0 | 379.5 | 378.2 |
| 37.5° | 363.7 | 361.2 | 360.1 | 358.6 | 357.2 | 354.4 | 353.9 | 352.9 |
| 40° | 335.9 | 332.6 | 332.6 | 331.6 | 330.1 | 329.9 | 329.1 | 329.1 |
| 42.5° | 306.8 | 305.3 | 305.0 | 305.3 | 304.3 | 303.9 | 303.0 | 304.8 |
| 45° | 278.1 | 278.8 | 277.5 | 277.7 | 277.3 | 278.3 | 278.3 | 279.3 |
| 47.5° | 251.5 | 250.4 | 251.0 | 251.5 | 252.2 | 252.2 | 251.9 | 251.7 |
| 50° | 223.2 | 224.2 | 225.2 | 223.9 | 224.4 | 224.6 | 223.4 | 223.7 |
| 52.5° | 198.8 | 199.2 | 199.9 | 199.2 | 199.9 | 199.6 | 200.1 | 199.2 |
| 55° | 175.4 | 175.4 | 176.3 | 176.6 | 176.8 | 177.6 | 177.8 | 178.5 |
| 57.5° | 152.5 | 153.8 | 155.0 | 154.8 | 155.8 | 156.7 | 156.0 | 156.7 |
| 60° | 132.7 | 133.8 | 135.0 | 135.5 | 136.2 | 136.8 | 136.8 | 137.3 |
| 62.5° | 112.7 | 114.8 | 115.7 | 116.8 | 116.8 | 117.7 | 118.8 | 119.0 |
| 65° | 94.7 | 96.9 | 97.7 | 98.5 | 98.9 | 99.9 | 101.2 | 100.9 |
| 67.5° | 77.6 | 79.1 | 80.2 | 80.7 | 82.2 | 82.6 | 83.7 | 84.6 |
| 70° | 60.8 | 62.8 | 63.7 | 64.6 | 65.9 | 66.8 | 67.9 | 68.4 |
| 72.5° | 46.5 | 48.1 | 48.5 | 49.6 | 50.9 | 51.8 | 52.4 | 53.1 |
| 75° | 32.6 | 35.1 | 35.3 | 36.1 | 37.0 | 38.3 | 39.0 | 38.8 |
| 77.5° | 21.6 | 23.3 | 23.6 | 24.5 | 25.6 | 26.5 | 26.8 | 27.1 |
| 80° | 12.8 | 13.7 | 14.1 | 14.5 | 15.2 | 15.8 | 16.3 | 16.8 |
| 82.5° | 6.0 | 6.6 | 7.0 | 7.0 | 7.5 | 8.0 | 8.0 | 8.2 |
| 85° | 2.0 | 2.0 | 2.2 | 2.2 | 2.5 | 2.5 | 2.7 | 2.5 |
| 87.5° | 0.2 | 0.2 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)