

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: P843271

Luminaire Tested: **LD4C08DE010B50 EU4C08B50 4LBLDWWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P843271
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: LD4C08DE010B50 EU4C08B50 4LBDWWLI
Description: 4in Downlight with BioUp LEDs
Light Source: -
Ballast/Driver:

Summary

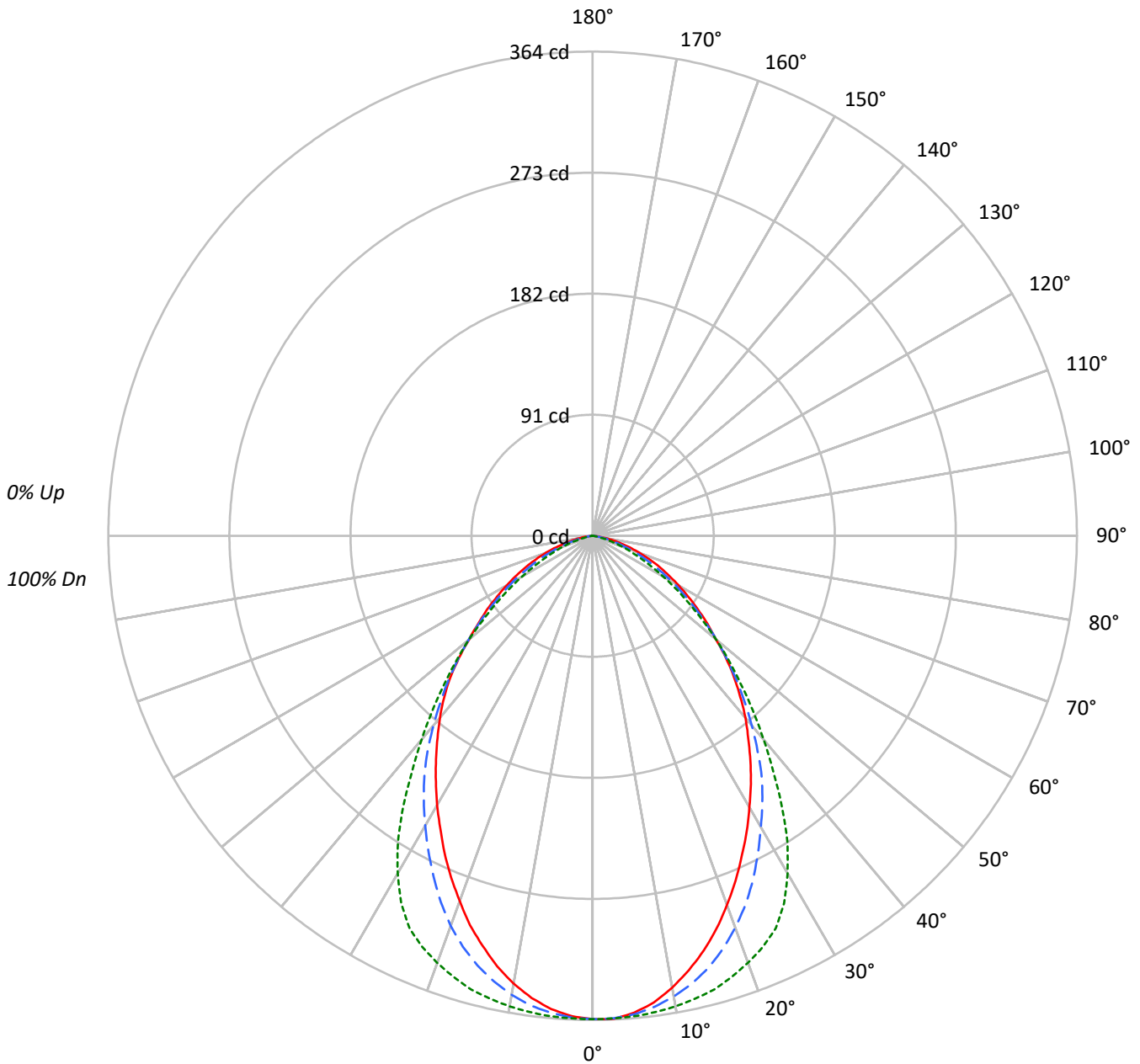
Lumens per Lamp: N/A
Luminaire Lumens: 667.4 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.6
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: P843271

CATALOG NUMBER: LD4C08DE010B50 EU4C08B50 4LBDWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P843271

CATALOG NUMBER: LD4C08DE010B50 EU4C08B50 4LBDWWLI

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 | 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° | 44645 | 44645 | 44645 |
| 5° | 44372 | 44717 | 44051 |
| 10° | 43026 | 44822 | 42652 |
| 15° | 41056 | 44910 | 40598 |
| 20° | 38620 | 44660 | 38189 |
| 25° | 35976 | 44136 | 35678 |
| 30° | 33422 | 41565 | 33152 |
| 35° | 31000 | 37179 | 30775 |
| 40° | 28659 | 32059 | 28627 |
| 45° | 26113 | 27364 | 26339 |
| 50° | 23069 | 23145 | 23184 |
| 55° | 20669 | 18913 | 20755 |
| 60° | 18281 | 15013 | 18305 |
| 65° | 16075 | 11453 | 15930 |
| 70° | 13326 | 8190 | 13326 |
| 75° | 10395 | 4699 | 9968 |
| 80° | 6721 | 1132 | 6438 |
| 85° | 2537 | 423 | 1973 |



TEST NUMBER: P843271

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 34.1 | 5.1 |
| 10°-20° | 94.4 | 14.1 |
| 20°-30° | 131.9 | 19.8 |
| 30°-40° | 139.2 | 20.9 |
| 40°-50° | 118.4 | 17.7 |
| 50°-60° | 83.5 | 12.5 |
| 60°-70° | 47.4 | 7.1 |
| 70°-80° | 16.9 | 2.5 |
| 80°-90° | 1.6 | 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° | 260.4 | 39.0 |
| 0°-40° | 399.6 | 59.9 |
| 0°-60° | 601.5 | 90.1 |
| 0°-90° | 667.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 667.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 363 | 363 | 363 | 363 | 363 | |
| 5° | 360 | 361 | 363 | 360 | 357 | 34 |
| 15° | 323 | 336 | 353 | 334 | 319 | 90 |
| 25° | 265 | 285 | 326 | 283 | 263 | 122 |
| 35° | 207 | 222 | 248 | 220 | 205 | 129 |
| 45° | 150 | 152 | 158 | 153 | 152 | 116 |
| 55° | 96 | 93 | 88 | 94 | 97 | 87 |
| 65° | 55 | 47 | 39 | 48 | 55 | 55 |
| 75° | 22 | 15 | 10 | 15 | 21 | 24 |
| 85° | 2 | 1 | 0 | 1 | 1 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P843271

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 |
| 2.5° | 363.6 | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 | 363.0 | 363.1 | 363.1 |
| 5° | 359.8 | 359.6 | 359.4 | 359.4 | 359.4 | 359.4 | 359.6 | 360.1 | 360.3 | 360.8 | 361.1 |
| 7.5° | 353.9 | 353.4 | 353.6 | 353.6 | 353.9 | 354.1 | 354.5 | 355.0 | 355.9 | 356.4 | 357.2 |
| 10° | 344.9 | 344.4 | 345.0 | 345.3 | 346.2 | 346.5 | 347.2 | 348.1 | 349.7 | 350.5 | 351.6 |
| 12.5° | 334.4 | 334.2 | 334.4 | 335.5 | 336.3 | 336.9 | 337.7 | 339.5 | 341.1 | 342.9 | 344.8 |
| 15° | 322.8 | 322.0 | 322.5 | 323.8 | 325.2 | 326.2 | 326.8 | 329.1 | 331.4 | 334.0 | 336.3 |
| 17.5° | 309.7 | 308.7 | 309.9 | 310.9 | 312.6 | 313.5 | 314.4 | 317.1 | 320.0 | 323.0 | 325.6 |
| 20° | 295.4 | 295.2 | 295.8 | 297.3 | 299.1 | 300.2 | 301.0 | 303.9 | 306.4 | 310.5 | 313.5 |
| 22.5° | 280.6 | 280.9 | 281.4 | 283.0 | 284.3 | 285.8 | 287.0 | 289.6 | 292.5 | 296.3 | 300.2 |
| 25° | 265.4 | 265.8 | 266.7 | 267.8 | 269.9 | 270.6 | 272.2 | 274.9 | 277.5 | 281.0 | 285.2 |
| 27.5° | 250.8 | 250.9 | 251.9 | 252.5 | 254.4 | 256.2 | 256.8 | 259.6 | 262.7 | 265.4 | 269.1 |
| 30° | 235.6 | 236.1 | 236.7 | 238.2 | 240.1 | 240.8 | 241.7 | 244.2 | 246.5 | 249.9 | 252.8 |
| 32.5° | 221.3 | 220.9 | 221.8 | 222.6 | 224.7 | 226.0 | 226.4 | 229.4 | 231.4 | 234.8 | 237.5 |
| 35° | 206.7 | 206.0 | 207.2 | 208.0 | 209.9 | 211.0 | 211.6 | 213.9 | 215.8 | 218.6 | 221.7 |
| 37.5° | 192.2 | 192.7 | 193.2 | 194.0 | 194.9 | 195.1 | 196.7 | 197.4 | 199.8 | 201.9 | 203.6 |
| 40° | 178.7 | 178.4 | 178.1 | 178.8 | 180.0 | 180.6 | 180.7 | 182.2 | 182.8 | 185.0 | 186.1 |
| 42.5° | 164.3 | 164.5 | 164.3 | 164.5 | 165.1 | 165.1 | 165.5 | 166.5 | 166.9 | 167.5 | 169.0 |
| 45° | 150.3 | 150.3 | 149.9 | 150.1 | 150.2 | 150.1 | 150.2 | 150.6 | 151.3 | 151.3 | 152.5 |
| 47.5° | 135.8 | 135.5 | 136.0 | 135.6 | 135.4 | 135.2 | 135.6 | 135.2 | 136.0 | 136.0 | 136.3 |
| 50° | 120.7 | 120.7 | 121.3 | 121.2 | 121.5 | 121.0 | 121.1 | 121.1 | 121.2 | 121.1 | 121.6 |
| 52.5° | 108.9 | 108.7 | 108.4 | 107.8 | 108.0 | 107.5 | 107.5 | 107.7 | 107.2 | 107.0 | 106.4 |
| 55° | 96.5 | 96.8 | 96.4 | 96.0 | 96.0 | 95.5 | 95.4 | 94.6 | 94.0 | 93.6 | 93.2 |
| 57.5° | 85.2 | 85.5 | 85.4 | 84.6 | 83.9 | 84.0 | 83.7 | 82.9 | 81.6 | 80.9 | 80.2 |
| 60° | 74.4 | 74.6 | 74.4 | 73.6 | 73.4 | 72.9 | 72.7 | 71.6 | 70.6 | 69.6 | 68.7 |
| 62.5° | 64.5 | 64.5 | 64.4 | 63.5 | 62.8 | 62.9 | 62.2 | 61.4 | 60.2 | 58.7 | 57.5 |
| 65° | 55.3 | 55.2 | 54.5 | 54.0 | 53.5 | 52.9 | 52.5 | 51.2 | 50.2 | 49.1 | 47.4 |
| 67.5° | 46.1 | 45.7 | 45.4 | 44.9 | 43.8 | 43.6 | 43.0 | 42.0 | 40.6 | 39.7 | 38.3 |
| 70° | 37.1 | 36.9 | 36.4 | 36.4 | 35.4 | 35.0 | 34.3 | 33.3 | 32.0 | 30.7 | 29.6 |
| 72.5° | 29.4 | 29.1 | 28.6 | 28.0 | 27.2 | 26.9 | 26.2 | 25.3 | 24.2 | 22.8 | 21.5 |
| 75° | 21.9 | 21.6 | 21.5 | 20.8 | 20.1 | 19.5 | 19.1 | 18.2 | 17.1 | 16.2 | 14.9 |
| 77.5° | 15.3 | 15.1 | 14.7 | 14.3 | 13.9 | 13.4 | 13.0 | 12.3 | 11.3 | 10.5 | 9.4 |
| 80° | 9.5 | 9.2 | 9.0 | 8.9 | 8.5 | 8.2 | 7.7 | 7.3 | 6.6 | 6.0 | 5.3 |
| 82.5° | 4.9 | 4.9 | 4.7 | 4.4 | 4.2 | 4.1 | 3.9 | 3.5 | 3.2 | 2.7 | 2.3 |
| 85° | 1.8 | 1.8 | 1.6 | 1.5 | 1.5 | 1.4 | 1.4 | 1.3 | 1.0 | 1.0 | 0.6 |
| 87.5° | 0.1 | 0.1 | 0.3 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 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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CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 |
| 2.5° | 363.2 | 363.1 | 363.2 | 363.2 | 363.4 | 363.4 | 363.4 | 363.2 | 363.4 | 363.2 | 363.2 |
| 5° | 361.1 | 361.5 | 361.7 | 362.0 | 362.1 | 362.2 | 362.2 | 362.5 | 362.6 | 362.6 | 362.5 |
| 7.5° | 357.7 | 358.5 | 359.3 | 359.8 | 360.1 | 360.3 | 360.8 | 361.1 | 361.3 | 361.2 | 361.1 |
| 10° | 353.1 | 354.5 | 355.7 | 356.7 | 357.3 | 357.7 | 358.3 | 358.9 | 359.2 | 359.3 | 358.9 |
| 12.5° | 346.8 | 348.7 | 350.5 | 352.2 | 353.0 | 353.6 | 354.9 | 355.9 | 356.4 | 356.4 | 356.0 |
| 15° | 338.8 | 341.5 | 344.0 | 346.4 | 347.7 | 348.6 | 350.6 | 352.0 | 352.8 | 353.1 | 352.5 |
| 17.5° | 329.1 | 332.3 | 335.4 | 338.3 | 339.7 | 341.0 | 343.8 | 345.7 | 347.4 | 347.7 | 346.9 |
| 20° | 316.8 | 320.7 | 324.3 | 327.9 | 329.5 | 331.4 | 334.5 | 337.7 | 340.5 | 341.6 | 339.3 |
| 22.5° | 302.9 | 307.2 | 310.5 | 315.0 | 317.1 | 319.1 | 323.3 | 327.2 | 332.0 | 334.5 | 330.5 |
| 25° | 288.5 | 292.1 | 296.1 | 300.5 | 303.3 | 305.4 | 310.4 | 315.4 | 321.8 | 325.6 | 319.9 |
| 27.5° | 273.0 | 276.3 | 281.0 | 285.8 | 288.0 | 290.6 | 296.6 | 302.0 | 308.1 | 311.5 | 307.2 |
| 30° | 257.0 | 261.0 | 265.6 | 269.9 | 273.0 | 275.6 | 280.4 | 284.9 | 290.1 | 293.0 | 289.9 |
| 32.5° | 241.0 | 245.1 | 248.9 | 253.6 | 255.3 | 257.6 | 261.9 | 265.8 | 269.7 | 272.3 | 268.6 |
| 35° | 224.3 | 227.9 | 231.4 | 234.7 | 235.5 | 238.2 | 241.7 | 243.9 | 245.8 | 247.9 | 245.4 |
| 37.5° | 206.1 | 208.9 | 210.7 | 214.2 | 215.5 | 216.0 | 218.6 | 220.3 | 222.3 | 222.7 | 222.6 |
| 40° | 187.6 | 190.2 | 191.6 | 193.8 | 194.9 | 194.9 | 196.7 | 198.3 | 199.8 | 199.9 | 199.8 |
| 42.5° | 170.4 | 171.7 | 172.8 | 174.2 | 174.0 | 175.6 | 176.4 | 177.0 | 178.1 | 178.1 | 178.4 |
| 45° | 153.0 | 154.0 | 155.0 | 155.4 | 156.4 | 156.4 | 157.1 | 157.4 | 157.9 | 157.5 | 157.0 |
| 47.5° | 136.9 | 137.3 | 137.4 | 138.7 | 138.9 | 137.9 | 138.8 | 138.9 | 138.8 | 138.8 | 138.4 |
| 50° | 121.5 | 121.7 | 121.6 | 121.2 | 121.3 | 121.7 | 121.3 | 120.8 | 121.1 | 121.1 | 121.3 |
| 52.5° | 106.5 | 106.0 | 105.8 | 105.8 | 105.1 | 105.1 | 104.5 | 104.2 | 104.1 | 103.5 | 104.2 |
| 55° | 92.9 | 92.0 | 90.7 | 90.5 | 90.1 | 90.0 | 89.2 | 88.4 | 88.2 | 88.3 | 88.2 |
| 57.5° | 79.6 | 78.4 | 77.6 | 77.3 | 76.9 | 76.1 | 75.2 | 74.5 | 74.4 | 74.0 | 74.0 |
| 60° | 67.7 | 66.3 | 65.0 | 63.9 | 64.0 | 63.5 | 62.5 | 62.1 | 61.7 | 61.1 | 61.6 |
| 62.5° | 56.8 | 55.3 | 53.9 | 52.8 | 51.9 | 51.5 | 50.9 | 50.1 | 49.7 | 49.3 | 49.9 |
| 65° | 46.1 | 44.8 | 43.4 | 42.1 | 41.7 | 41.4 | 40.6 | 39.6 | 39.4 | 39.4 | 39.7 |
| 67.5° | 36.4 | 35.0 | 33.7 | 32.9 | 32.4 | 31.8 | 31.5 | 31.0 | 30.6 | 30.4 | 30.5 |
| 70° | 28.0 | 26.7 | 25.6 | 24.7 | 24.3 | 24.2 | 23.3 | 23.1 | 23.0 | 22.8 | 22.7 |
| 72.5° | 20.4 | 19.2 | 18.3 | 17.8 | 17.2 | 16.8 | 16.6 | 16.2 | 16.1 | 16.1 | 16.1 |
| 75° | 14.0 | 13.2 | 12.1 | 11.4 | 11.1 | 10.8 | 10.4 | 10.0 | 9.8 | 9.9 | 9.9 |
| 77.5° | 8.5 | 7.6 | 7.0 | 6.3 | 6.2 | 5.8 | 5.4 | 5.2 | 4.8 | 4.8 | 4.9 |
| 80° | 4.7 | 3.9 | 3.4 | 3.0 | 2.7 | 2.5 | 2.2 | 2.0 | 1.8 | 1.6 | 1.6 |
| 82.5° | 2.0 | 1.6 | 1.4 | 1.3 | 1.1 | 1.0 | 0.8 | 0.6 | 0.6 | 0.5 | 0.6 |
| 85° | 0.6 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 87.5° | 0.1 | 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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CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 |
| 2.5° | 363.1 | 363.1 | 363.0 | 363.0 | 363.0 | 362.7 | 362.7 | 362.6 | 362.5 | 362.2 | 362.0 |
| 5° | 362.1 | 362.0 | 361.7 | 361.6 | 361.5 | 361.1 | 360.7 | 360.3 | 360.0 | 359.4 | 359.2 |
| 7.5° | 360.8 | 360.3 | 359.8 | 359.6 | 359.2 | 358.2 | 357.6 | 356.8 | 356.2 | 355.3 | 354.1 |
| 10° | 358.5 | 357.7 | 356.8 | 356.3 | 355.7 | 354.4 | 353.0 | 352.0 | 350.5 | 349.1 | 347.6 |
| 12.5° | 355.3 | 354.3 | 352.6 | 351.9 | 351.0 | 349.2 | 347.4 | 345.2 | 343.1 | 341.2 | 339.5 |
| 15° | 351.1 | 349.3 | 347.4 | 346.4 | 345.2 | 342.4 | 339.6 | 337.2 | 334.4 | 332.1 | 329.2 |
| 17.5° | 345.2 | 342.6 | 339.8 | 338.7 | 337.0 | 333.8 | 330.5 | 327.1 | 324.0 | 321.1 | 317.6 |
| 20° | 336.2 | 333.4 | 329.8 | 327.9 | 326.6 | 322.2 | 319.1 | 315.3 | 312.0 | 308.5 | 304.5 |
| 22.5° | 325.8 | 321.8 | 317.8 | 315.2 | 313.6 | 309.3 | 305.1 | 301.6 | 298.1 | 294.0 | 291.2 |
| 25° | 313.9 | 309.0 | 304.3 | 301.5 | 299.2 | 294.7 | 290.5 | 287.0 | 282.7 | 279.1 | 276.3 |
| 27.5° | 300.6 | 295.0 | 289.5 | 286.7 | 284.6 | 279.5 | 275.2 | 271.5 | 267.3 | 264.2 | 261.2 |
| 30° | 284.7 | 279.6 | 274.4 | 272.2 | 269.6 | 264.4 | 259.4 | 256.2 | 251.5 | 248.2 | 245.1 |
| 32.5° | 264.8 | 261.6 | 257.4 | 254.4 | 253.0 | 248.2 | 244.1 | 240.1 | 236.2 | 233.6 | 230.4 |
| 35° | 243.1 | 240.3 | 236.7 | 235.1 | 233.3 | 230.4 | 227.0 | 223.6 | 220.4 | 218.0 | 215.0 |
| 37.5° | 221.0 | 218.3 | 216.1 | 214.3 | 213.2 | 210.5 | 208.5 | 205.9 | 203.7 | 201.4 | 199.8 |
| 40° | 198.3 | 197.5 | 195.1 | 194.3 | 194.1 | 191.1 | 189.3 | 187.3 | 185.9 | 184.6 | 183.6 |
| 42.5° | 178.0 | 176.6 | 174.9 | 175.0 | 174.2 | 172.6 | 171.3 | 170.0 | 169.0 | 168.4 | 167.4 |
| 45° | 158.0 | 157.0 | 156.1 | 156.8 | 155.5 | 154.9 | 154.0 | 153.8 | 153.1 | 151.9 | 151.6 |
| 47.5° | 139.0 | 138.9 | 139.0 | 138.7 | 138.3 | 138.0 | 138.2 | 137.5 | 136.9 | 136.4 | 135.9 |
| 50° | 121.6 | 121.7 | 122.1 | 122.5 | 121.5 | 121.9 | 121.7 | 121.6 | 121.6 | 121.2 | 121.5 |
| 52.5° | 104.8 | 104.9 | 105.1 | 105.6 | 105.8 | 105.8 | 106.1 | 106.4 | 106.9 | 107.7 | 107.7 |
| 55° | 88.8 | 89.8 | 90.3 | 91.1 | 90.6 | 91.5 | 91.9 | 93.1 | 93.5 | 93.5 | 94.0 |
| 57.5° | 74.8 | 75.7 | 76.1 | 76.9 | 77.2 | 77.8 | 79.0 | 79.6 | 80.6 | 81.4 | 82.2 |
| 60° | 61.9 | 62.2 | 63.4 | 64.5 | 64.3 | 65.9 | 66.7 | 67.8 | 69.1 | 69.6 | 70.6 |
| 62.5° | 50.2 | 50.9 | 51.6 | 52.0 | 53.0 | 53.8 | 55.7 | 56.8 | 57.9 | 59.2 | 60.3 |
| 65° | 40.0 | 40.5 | 41.4 | 42.1 | 42.5 | 43.8 | 44.7 | 46.6 | 47.6 | 49.1 | 50.2 |
| 67.5° | 30.6 | 31.4 | 32.0 | 32.6 | 32.9 | 34.2 | 35.6 | 36.4 | 38.2 | 39.7 | 40.6 |
| 70° | 22.8 | 23.5 | 24.3 | 24.2 | 24.7 | 25.7 | 26.8 | 28.0 | 29.4 | 30.7 | 31.8 |
| 72.5° | 15.9 | 16.6 | 17.1 | 17.2 | 17.8 | 18.5 | 19.2 | 20.2 | 21.4 | 22.7 | 24.2 |
| 75° | 10.0 | 10.2 | 10.8 | 11.0 | 11.3 | 12.1 | 12.8 | 13.7 | 14.7 | 15.8 | 16.7 |
| 77.5° | 5.1 | 5.4 | 5.7 | 6.0 | 6.1 | 6.8 | 7.5 | 8.2 | 9.1 | 10.2 | 11.1 |
| 80° | 1.9 | 2.0 | 2.4 | 2.5 | 2.9 | 3.3 | 3.8 | 4.2 | 4.9 | 5.7 | 6.2 |
| 82.5° | 0.6 | 0.8 | 1.0 | 1.0 | 1.1 | 1.4 | 1.5 | 1.9 | 2.3 | 2.5 | 2.9 |
| 85° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | 0.8 | 0.8 |
| 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: P843271

CATALOG NUMBER: LD4C08DE010B50 EU4C08B50 4LBDWWLI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 | 363.4 |
| 2.5° | 361.9 | 361.9 | 361.7 | 361.6 | 361.6 | 361.6 | 361.5 | 361.5 |
| 5° | 358.6 | 358.2 | 358.1 | 357.8 | 357.7 | 357.6 | 357.2 | 357.2 |
| 7.5° | 353.4 | 352.8 | 352.4 | 352.0 | 351.5 | 351.0 | 351.0 | 350.5 |
| 10° | 346.3 | 345.2 | 344.6 | 344.0 | 343.4 | 342.6 | 342.4 | 341.9 |
| 12.5° | 337.7 | 335.5 | 335.0 | 334.0 | 332.9 | 332.4 | 331.5 | 331.5 |
| 15° | 327.1 | 324.8 | 323.5 | 323.0 | 321.6 | 320.7 | 320.3 | 319.2 |
| 17.5° | 314.8 | 313.0 | 311.1 | 310.2 | 308.7 | 307.6 | 307.0 | 306.8 |
| 20° | 302.3 | 299.4 | 298.1 | 296.9 | 295.2 | 294.0 | 293.3 | 292.1 |
| 22.5° | 287.8 | 285.2 | 283.4 | 282.7 | 281.1 | 279.2 | 277.9 | 277.9 |
| 25° | 272.6 | 270.3 | 269.4 | 267.6 | 265.8 | 265.1 | 263.5 | 263.2 |
| 27.5° | 258.1 | 255.7 | 253.8 | 252.9 | 250.9 | 249.9 | 248.5 | 248.0 |
| 30° | 242.9 | 240.3 | 238.9 | 238.8 | 236.3 | 235.3 | 234.3 | 233.7 |
| 32.5° | 227.9 | 225.6 | 224.2 | 223.4 | 222.3 | 220.7 | 219.8 | 219.2 |
| 35° | 212.9 | 211.4 | 210.3 | 209.3 | 207.5 | 206.7 | 205.9 | 205.2 |
| 37.5° | 197.4 | 196.0 | 195.5 | 194.6 | 193.8 | 192.3 | 192.1 | 191.4 |
| 40° | 182.2 | 180.4 | 180.4 | 179.9 | 179.1 | 179.0 | 178.5 | 178.5 |
| 42.5° | 166.5 | 165.6 | 165.5 | 165.6 | 165.1 | 164.9 | 164.5 | 165.4 |
| 45° | 150.8 | 151.2 | 150.6 | 150.7 | 150.4 | 150.9 | 150.9 | 151.6 |
| 47.5° | 136.4 | 135.9 | 136.1 | 136.4 | 136.9 | 136.9 | 136.8 | 136.5 |
| 50° | 121.1 | 121.6 | 122.2 | 121.5 | 121.7 | 121.9 | 121.2 | 121.3 |
| 52.5° | 107.9 | 108.0 | 108.4 | 108.0 | 108.4 | 108.3 | 108.6 | 108.0 |
| 55° | 95.1 | 95.1 | 95.7 | 95.8 | 95.9 | 96.4 | 96.5 | 96.9 |
| 57.5° | 82.7 | 83.4 | 84.1 | 84.0 | 84.5 | 85.0 | 84.6 | 85.0 |
| 60° | 72.0 | 72.6 | 73.3 | 73.5 | 73.9 | 74.2 | 74.2 | 74.5 |
| 62.5° | 61.1 | 62.2 | 62.8 | 63.4 | 63.4 | 63.9 | 64.4 | 64.5 |
| 65° | 51.4 | 52.6 | 53.0 | 53.4 | 53.7 | 54.3 | 54.9 | 54.8 |
| 67.5° | 42.1 | 42.9 | 43.5 | 43.8 | 44.5 | 44.8 | 45.4 | 45.9 |
| 70° | 33.0 | 34.2 | 34.5 | 35.0 | 35.7 | 36.3 | 36.8 | 37.1 |
| 72.5° | 25.3 | 26.1 | 26.3 | 26.9 | 27.6 | 28.1 | 28.5 | 28.8 |
| 75° | 17.7 | 19.0 | 19.1 | 19.6 | 20.1 | 20.8 | 21.2 | 21.0 |
| 77.5° | 11.6 | 12.6 | 12.8 | 13.3 | 13.9 | 14.4 | 14.5 | 14.7 |
| 80° | 7.0 | 7.5 | 7.6 | 7.9 | 8.2 | 8.6 | 8.9 | 9.1 |
| 82.5° | 3.3 | 3.5 | 3.8 | 3.8 | 4.1 | 4.3 | 4.3 | 4.4 |
| 85° | 1.1 | 1.1 | 1.3 | 1.3 | 1.4 | 1.4 | 1.5 | 1.4 |
| 87.5° | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)