

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: P880526

Luminaire Tested: **LD4C02D010 EU4029050 4LBDWNH**

Issue Date: 10/4/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P880526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251940)
Test Lab: INNOVATION CENTER
Issue Date: 10/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C02D010 EU4029050 4LBDWNH
Description: 4 INCH 250 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LBDWN TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

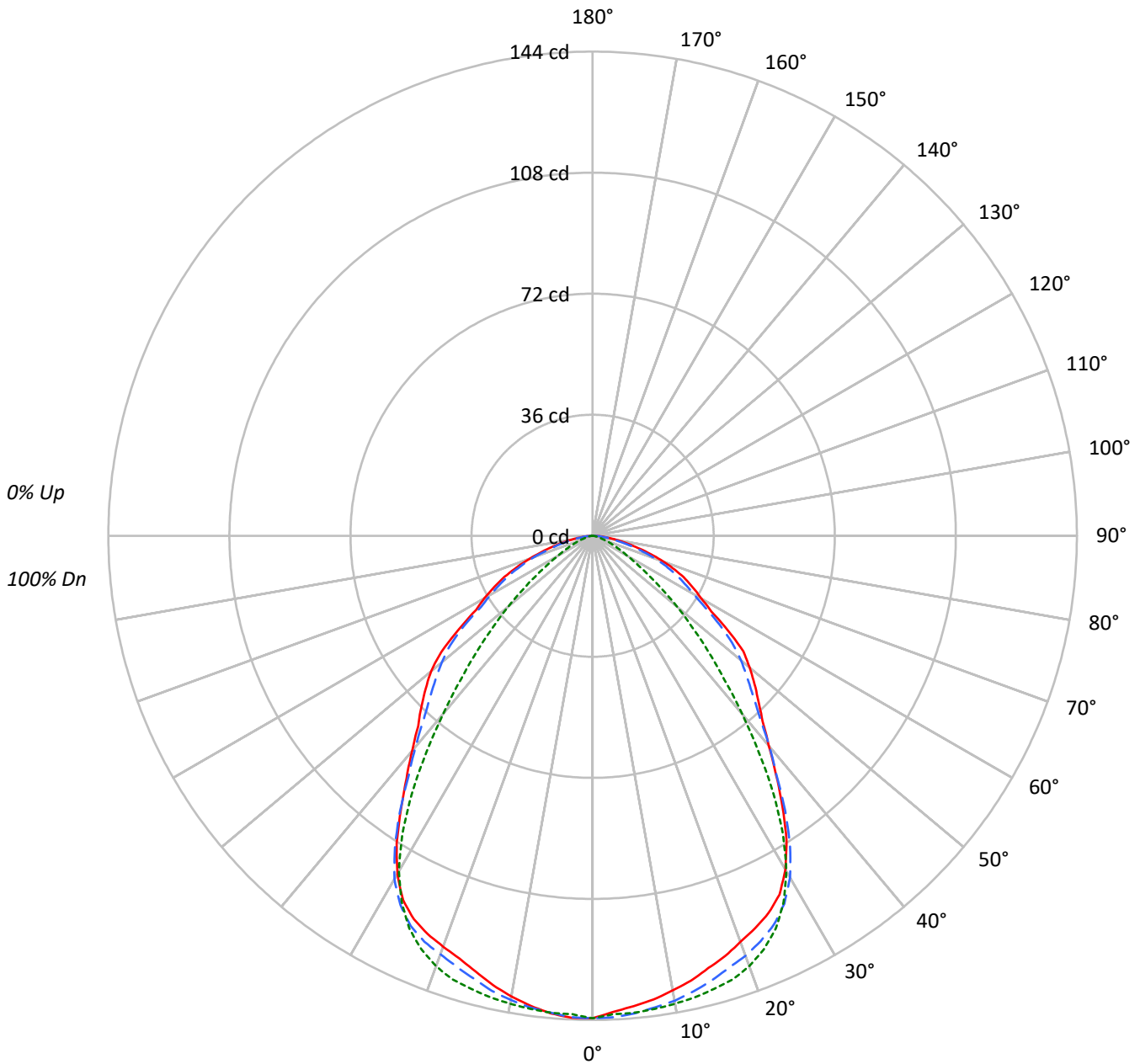
Lumens per Lamp: N/A
Luminaire Lumens: 292.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 3.5
Input Voltage (V): NR
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: P880526

CATALOG NUMBER: LD4C02D010 EU4029050 4LBDWNH

Luminous Intensity Polar Plot





TEST NUMBER: P880526

CATALOG NUMBER: LD4C02D010 EU4029050 4LBDWNH

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 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 98 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | | | | | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | | | | | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | | | | | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 60 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | | | | | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 68 | 57 | 49 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 53 | 47 | 43 | 41 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 53 | 45 | 40 | 64 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 49 | 41 | 36 | 60 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | | | | | | | | | | | | | | | |
| 10 | 58 | 46 | 38 | 33 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 33 | 31 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 17629 | 17629 | 17629 |
| 5° | 17315 | 17561 | 17586 |
| 10° | 17128 | 17627 | 17353 |
| 15° | 16929 | 17743 | 17069 |
| 20° | 16800 | 17807 | 16996 |
| 25° | 16782 | 17473 | 17053 |
| 30° | 16257 | 16342 | 16470 |
| 35° | 14758 | 14068 | 14893 |
| 40° | 13070 | 11082 | 13375 |
| 45° | 12110 | 8444 | 12509 |
| 50° | 11640 | 6250 | 11984 |
| 55° | 10538 | 4305 | 10410 |
| 60° | 9165 | 2924 | 9116 |
| 65° | 8866 | 2122 | 8401 |
| 70° | 8010 | 1437 | 7148 |
| 75° | 6598 | 949 | 5649 |
| 80° | 5306 | 637 | 4245 |
| 85° | 4370 | 282 | 2819 |



TEST NUMBER: P880526

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 13.5 | 4.6 |
| 10°-20° | 38.7 | 13.3 |
| 20°-30° | 58.5 | 20.0 |
| 30°-40° | 61.2 | 21.0 |
| 40°-50° | 49.6 | 17.0 |
| 50°-60° | 36.1 | 12.4 |
| 60°-70° | 22.2 | 7.6 |
| 70°-80° | 10.0 | 3.4 |
| 80°-90° | 2.0 | 0.7 |
| 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° | 110.8 | 37.9 |
| 0°-40° | 172.0 | 58.9 |
| 0°-60° | 257.7 | 88.2 |
| 0°-90° | 292.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 292.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 144 | 144 | 144 | 144 | 144 | |
| 5° | 140 | 143 | 142 | 142 | 143 | 13 |
| 15° | 133 | 137 | 140 | 136 | 134 | 38 |
| 25° | 124 | 128 | 129 | 128 | 126 | 57 |
| 35° | 98 | 100 | 94 | 100 | 99 | 61 |
| 45° | 70 | 68 | 49 | 68 | 72 | 54 |
| 55° | 49 | 46 | 20 | 47 | 49 | 44 |
| 65° | 30 | 27 | 7 | 27 | 29 | 30 |
| 75° | 14 | 12 | 2 | 10 | 12 | 15 |
| 85° | 3 | 2 | 0 | 2 | 2 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 |
| 2.5° | 141.7 | 141.7 | 143.0 | 144.6 | 143.3 | 141.9 | 142.8 | 142.4 | 143.9 | 143.9 | 143.3 |
| 5° | 140.4 | 140.8 | 141.9 | 143.3 | 142.2 | 140.8 | 141.9 | 141.5 | 143.0 | 143.0 | 142.6 |
| 7.5° | 139.1 | 139.3 | 140.6 | 142.2 | 141.0 | 139.7 | 140.6 | 140.4 | 141.7 | 141.9 | 141.5 |
| 10° | 137.3 | 137.5 | 138.8 | 140.4 | 139.3 | 138.2 | 139.1 | 138.8 | 140.6 | 140.6 | 140.4 |
| 12.5° | 135.5 | 135.8 | 137.1 | 138.4 | 137.3 | 136.2 | 137.1 | 137.1 | 138.8 | 139.1 | 138.8 |
| 15° | 133.1 | 133.5 | 134.7 | 136.0 | 135.3 | 134.0 | 134.9 | 134.9 | 136.4 | 136.9 | 136.9 |
| 17.5° | 131.1 | 131.3 | 132.4 | 133.8 | 132.9 | 131.8 | 132.7 | 132.7 | 134.2 | 134.7 | 134.7 |
| 20° | 128.5 | 128.9 | 130.0 | 131.3 | 130.7 | 129.8 | 130.5 | 130.5 | 132.2 | 132.7 | 132.9 |
| 22.5° | 126.3 | 126.7 | 127.6 | 129.4 | 128.2 | 127.6 | 128.5 | 128.2 | 130.2 | 130.5 | 130.5 |
| 25° | 123.8 | 124.3 | 125.4 | 126.5 | 125.8 | 125.2 | 125.8 | 125.8 | 127.4 | 127.6 | 127.6 |
| 27.5° | 120.3 | 120.5 | 121.6 | 122.7 | 122.1 | 121.2 | 122.1 | 121.8 | 123.4 | 123.6 | 123.4 |
| 30° | 114.6 | 115.0 | 115.4 | 117.0 | 116.3 | 115.7 | 116.5 | 116.1 | 117.7 | 117.7 | 117.4 |
| 32.5° | 107.3 | 107.3 | 108.2 | 109.3 | 108.4 | 107.9 | 108.6 | 108.8 | 109.9 | 109.9 | 109.3 |
| 35° | 98.4 | 98.9 | 99.5 | 100.2 | 99.5 | 99.1 | 99.8 | 99.5 | 100.9 | 100.4 | 99.8 |
| 37.5° | 89.6 | 89.8 | 90.5 | 91.4 | 90.5 | 89.8 | 90.1 | 89.8 | 90.9 | 90.9 | 89.8 |
| 40° | 81.5 | 81.9 | 82.3 | 83.2 | 82.3 | 81.9 | 82.1 | 81.5 | 82.8 | 82.3 | 81.7 |
| 42.5° | 74.8 | 75.0 | 75.7 | 76.2 | 75.3 | 75.0 | 75.3 | 74.8 | 75.5 | 75.0 | 73.7 |
| 45° | 69.7 | 69.7 | 70.0 | 70.6 | 69.7 | 69.5 | 69.5 | 69.1 | 69.7 | 68.9 | 67.5 |
| 47.5° | 65.3 | 65.6 | 65.8 | 66.2 | 65.6 | 64.9 | 65.1 | 64.2 | 64.7 | 64.0 | 62.2 |
| 50° | 60.9 | 61.4 | 61.6 | 62.0 | 61.4 | 60.9 | 61.1 | 60.3 | 60.3 | 59.2 | 57.6 |
| 52.5° | 56.5 | 56.7 | 56.5 | 56.9 | 56.5 | 55.8 | 56.1 | 55.2 | 55.2 | 53.9 | 52.3 |
| 55° | 49.2 | 49.4 | 49.7 | 50.1 | 49.7 | 49.0 | 49.4 | 48.8 | 48.8 | 47.9 | 46.1 |
| 57.5° | 41.9 | 42.2 | 42.4 | 42.6 | 42.6 | 42.2 | 42.4 | 41.9 | 41.7 | 41.1 | 39.7 |
| 60° | 37.3 | 37.3 | 37.3 | 37.5 | 37.3 | 37.1 | 37.1 | 36.6 | 36.6 | 35.8 | 34.4 |
| 62.5° | 33.8 | 34.0 | 34.0 | 34.2 | 34.0 | 33.8 | 33.6 | 33.1 | 32.9 | 32.0 | 30.9 |
| 65° | 30.5 | 30.5 | 30.2 | 30.7 | 30.5 | 30.2 | 30.2 | 29.8 | 29.4 | 28.5 | 27.4 |
| 67.5° | 26.5 | 26.7 | 26.5 | 26.7 | 26.7 | 26.5 | 26.3 | 25.8 | 25.6 | 24.9 | 23.6 |
| 70° | 22.3 | 22.3 | 22.3 | 22.5 | 22.3 | 22.3 | 22.5 | 21.9 | 21.6 | 20.7 | 19.6 |
| 72.5° | 18.1 | 18.3 | 18.3 | 18.1 | 18.3 | 17.9 | 17.9 | 17.9 | 17.7 | 16.8 | 15.7 |
| 75° | 13.9 | 14.1 | 14.1 | 14.3 | 14.1 | 13.9 | 13.9 | 13.7 | 13.5 | 12.8 | 11.9 |
| 77.5° | 10.4 | 10.4 | 10.6 | 10.6 | 10.6 | 10.4 | 10.4 | 9.9 | 9.9 | 9.5 | 8.6 |
| 80° | 7.5 | 7.5 | 7.3 | 7.5 | 7.5 | 7.3 | 7.3 | 7.1 | 7.1 | 6.6 | 6.0 |
| 82.5° | 4.9 | 5.1 | 5.1 | 5.1 | 5.1 | 4.9 | 4.9 | 4.9 | 4.6 | 4.4 | 4.0 |
| 85° | 3.1 | 3.1 | 3.1 | 3.1 | 3.3 | 3.1 | 3.3 | 3.1 | 3.1 | 2.6 | 2.4 |
| 87.5° | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.1 |
| 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° | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 |
| 2.5° | 143.3 | 143.5 | 142.8 | 143.7 | 143.0 | 143.3 | 143.5 | 143.3 | 142.4 | 142.4 | 144.8 |
| 5° | 142.4 | 142.8 | 142.2 | 143.3 | 142.8 | 142.8 | 143.3 | 143.0 | 142.2 | 142.4 | 144.6 |
| 7.5° | 141.5 | 142.2 | 141.7 | 142.8 | 142.2 | 142.2 | 142.6 | 142.6 | 141.7 | 141.9 | 143.9 |
| 10° | 140.2 | 141.0 | 140.8 | 141.9 | 141.3 | 141.3 | 141.9 | 141.9 | 141.0 | 141.3 | 143.3 |
| 12.5° | 139.1 | 139.9 | 139.7 | 140.8 | 140.4 | 140.6 | 140.8 | 141.3 | 140.2 | 140.6 | 142.4 |
| 15° | 137.3 | 138.2 | 138.2 | 139.3 | 138.8 | 139.3 | 139.7 | 140.4 | 139.5 | 139.5 | 141.3 |
| 17.5° | 135.3 | 136.4 | 136.4 | 137.3 | 137.3 | 137.5 | 138.4 | 139.1 | 138.2 | 138.4 | 139.9 |
| 20° | 133.1 | 134.4 | 134.4 | 135.5 | 135.3 | 135.8 | 136.4 | 137.1 | 136.2 | 136.2 | 138.0 |
| 22.5° | 130.9 | 132.0 | 132.2 | 132.9 | 132.9 | 133.1 | 133.8 | 134.2 | 133.1 | 133.1 | 134.9 |
| 25° | 127.8 | 128.9 | 129.1 | 129.6 | 129.1 | 129.1 | 129.6 | 130.0 | 128.9 | 128.9 | 130.5 |
| 27.5° | 123.6 | 124.7 | 124.7 | 124.5 | 124.0 | 124.3 | 124.0 | 124.3 | 123.2 | 122.9 | 124.5 |
| 30° | 117.4 | 118.1 | 118.1 | 117.9 | 117.2 | 117.2 | 116.5 | 116.8 | 115.2 | 115.2 | 116.5 |
| 32.5° | 109.0 | 109.7 | 109.3 | 108.8 | 107.9 | 107.5 | 107.1 | 106.8 | 105.3 | 105.3 | 106.8 |
| 35° | 99.1 | 99.5 | 98.9 | 98.0 | 96.9 | 96.2 | 95.6 | 94.7 | 93.6 | 93.8 | 94.7 |
| 37.5° | 89.0 | 89.0 | 88.1 | 86.3 | 85.4 | 84.3 | 83.2 | 83.2 | 81.5 | 81.2 | 81.9 |
| 40° | 80.4 | 79.5 | 77.9 | 75.5 | 73.9 | 72.8 | 71.3 | 70.4 | 69.1 | 69.1 | 70.2 |
| 42.5° | 72.6 | 70.9 | 68.9 | 65.6 | 64.0 | 62.7 | 60.7 | 59.8 | 58.3 | 58.0 | 58.7 |
| 45° | 65.8 | 64.0 | 61.1 | 57.6 | 55.6 | 54.1 | 51.2 | 50.1 | 48.8 | 48.6 | 49.0 |
| 47.5° | 60.3 | 58.3 | 54.7 | 50.1 | 48.1 | 46.1 | 43.3 | 41.7 | 40.6 | 40.0 | 40.6 |
| 50° | 55.4 | 52.8 | 49.0 | 44.1 | 41.5 | 39.7 | 36.2 | 34.7 | 33.1 | 32.7 | 32.9 |
| 52.5° | 50.1 | 47.5 | 43.5 | 38.4 | 36.0 | 33.3 | 30.0 | 27.8 | 26.5 | 25.8 | 26.5 |
| 55° | 44.4 | 41.7 | 37.8 | 32.7 | 30.0 | 27.6 | 24.1 | 22.3 | 20.7 | 20.1 | 20.7 |
| 57.5° | 38.2 | 35.8 | 32.2 | 27.2 | 24.7 | 22.5 | 19.2 | 17.4 | 15.9 | 15.4 | 15.9 |
| 60° | 32.9 | 30.9 | 27.4 | 22.5 | 20.5 | 18.1 | 15.2 | 13.5 | 12.1 | 11.9 | 12.1 |
| 62.5° | 29.4 | 27.2 | 23.8 | 19.2 | 17.2 | 15.2 | 12.6 | 10.8 | 9.7 | 9.5 | 9.7 |
| 65° | 25.8 | 23.4 | 20.3 | 16.3 | 14.3 | 12.8 | 10.2 | 8.6 | 7.5 | 7.3 | 7.5 |
| 67.5° | 21.9 | 19.6 | 17.0 | 13.5 | 11.9 | 10.4 | 8.2 | 6.6 | 5.7 | 5.5 | 5.7 |
| 70° | 18.1 | 16.1 | 13.5 | 10.8 | 9.3 | 8.2 | 6.2 | 5.1 | 4.2 | 4.0 | 4.2 |
| 72.5° | 14.3 | 12.6 | 10.4 | 8.2 | 7.3 | 6.2 | 4.9 | 3.7 | 3.1 | 2.9 | 3.1 |
| 75° | 11.0 | 9.7 | 7.9 | 6.0 | 5.3 | 4.6 | 3.3 | 2.6 | 2.2 | 2.0 | 2.2 |
| 77.5° | 7.7 | 6.8 | 5.5 | 4.4 | 3.7 | 3.3 | 2.4 | 1.8 | 1.5 | 1.3 | 1.5 |
| 80° | 5.3 | 4.6 | 3.7 | 2.9 | 2.4 | 2.0 | 1.5 | 1.1 | 0.9 | 0.9 | 0.9 |
| 82.5° | 3.5 | 2.9 | 2.2 | 1.8 | 1.5 | 1.3 | 0.9 | 0.7 | 0.7 | 0.4 | 0.4 |
| 85° | 2.0 | 1.8 | 1.3 | 1.1 | 0.9 | 0.7 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 |
| 87.5° | 0.9 | 0.7 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 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° | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 |
| 2.5° | 144.1 | 143.5 | 144.4 | 143.5 | 143.0 | 143.5 | 143.0 | 144.4 | 143.3 | 142.4 | 143.3 |
| 5° | 143.9 | 143.0 | 143.9 | 143.3 | 142.6 | 142.8 | 142.4 | 143.7 | 142.4 | 141.7 | 142.2 |
| 7.5° | 143.5 | 142.8 | 143.3 | 142.6 | 141.9 | 142.2 | 141.7 | 142.8 | 141.5 | 140.8 | 141.3 |
| 10° | 142.8 | 142.2 | 142.4 | 141.9 | 141.3 | 141.3 | 140.8 | 141.7 | 140.2 | 139.3 | 139.7 |
| 12.5° | 141.9 | 141.0 | 141.5 | 140.8 | 139.9 | 139.9 | 139.5 | 140.2 | 138.6 | 137.7 | 138.0 |
| 15° | 140.8 | 139.9 | 139.9 | 139.3 | 138.4 | 138.4 | 137.5 | 138.2 | 136.4 | 135.5 | 135.5 |
| 17.5° | 139.5 | 138.4 | 138.4 | 137.7 | 136.6 | 136.4 | 135.8 | 136.4 | 134.4 | 133.5 | 133.5 |
| 20° | 137.5 | 136.6 | 136.4 | 136.0 | 134.9 | 134.7 | 133.8 | 134.0 | 132.4 | 131.8 | 131.6 |
| 22.5° | 134.9 | 134.0 | 134.2 | 133.5 | 132.7 | 132.4 | 131.6 | 132.2 | 130.7 | 130.0 | 130.2 |
| 25° | 130.2 | 129.8 | 130.2 | 130.0 | 129.4 | 129.4 | 128.9 | 129.4 | 128.0 | 127.6 | 127.8 |
| 27.5° | 124.9 | 124.7 | 124.9 | 124.9 | 124.5 | 124.5 | 124.5 | 125.2 | 123.8 | 123.6 | 123.6 |
| 30° | 117.2 | 117.2 | 117.4 | 117.7 | 117.7 | 118.1 | 117.9 | 118.8 | 117.9 | 117.4 | 117.9 |
| 32.5° | 107.1 | 107.9 | 108.6 | 108.6 | 108.6 | 109.0 | 109.5 | 110.1 | 109.3 | 109.5 | 109.5 |
| 35° | 95.6 | 96.2 | 96.7 | 97.8 | 97.1 | 98.7 | 99.1 | 100.0 | 99.8 | 100.2 | 100.0 |
| 37.5° | 82.8 | 83.7 | 84.5 | 86.1 | 85.9 | 87.6 | 88.5 | 90.3 | 89.8 | 90.7 | 91.2 |
| 40° | 70.9 | 72.2 | 73.5 | 74.6 | 75.5 | 77.3 | 79.0 | 81.2 | 81.9 | 82.6 | 82.8 |
| 42.5° | 59.4 | 60.7 | 62.9 | 64.5 | 65.8 | 68.6 | 71.1 | 73.7 | 74.4 | 75.7 | 76.2 |
| 45° | 50.1 | 51.2 | 53.9 | 55.8 | 56.9 | 61.1 | 64.0 | 67.3 | 68.4 | 70.0 | 70.6 |
| 47.5° | 41.5 | 43.5 | 46.1 | 48.6 | 50.1 | 54.5 | 58.3 | 61.8 | 63.4 | 65.1 | 66.0 |
| 50° | 34.0 | 36.2 | 39.7 | 41.9 | 44.1 | 49.0 | 53.2 | 56.9 | 58.5 | 60.5 | 61.4 |
| 52.5° | 27.8 | 30.2 | 33.6 | 36.0 | 38.4 | 43.5 | 47.9 | 51.4 | 53.4 | 54.7 | 56.1 |
| 55° | 21.9 | 24.5 | 27.8 | 30.5 | 32.4 | 38.0 | 41.7 | 45.2 | 46.6 | 47.7 | 48.3 |
| 57.5° | 17.0 | 19.0 | 22.3 | 24.5 | 26.9 | 31.8 | 35.5 | 38.2 | 39.3 | 40.6 | 41.1 |
| 60° | 13.2 | 15.2 | 18.3 | 20.5 | 22.7 | 27.4 | 31.1 | 33.8 | 34.9 | 36.0 | 36.6 |
| 62.5° | 10.6 | 12.6 | 15.4 | 17.4 | 19.4 | 23.6 | 26.9 | 29.6 | 30.9 | 32.0 | 32.7 |
| 65° | 8.4 | 10.2 | 12.6 | 14.6 | 16.1 | 19.9 | 23.2 | 25.6 | 26.9 | 28.0 | 28.7 |
| 67.5° | 6.6 | 8.2 | 10.4 | 11.7 | 13.2 | 16.3 | 19.2 | 21.4 | 22.5 | 23.8 | 24.5 |
| 70° | 5.1 | 6.2 | 8.2 | 9.3 | 10.4 | 13.0 | 15.2 | 17.4 | 18.5 | 19.4 | 19.9 |
| 72.5° | 3.7 | 4.6 | 6.2 | 7.1 | 7.7 | 9.9 | 11.7 | 13.2 | 14.1 | 15.0 | 15.4 |
| 75° | 2.6 | 3.3 | 4.4 | 5.1 | 5.5 | 7.1 | 8.6 | 9.7 | 10.4 | 11.0 | 11.7 |
| 77.5° | 1.8 | 2.2 | 2.9 | 3.3 | 3.7 | 4.9 | 5.7 | 6.6 | 7.3 | 7.9 | 8.2 |
| 80° | 1.1 | 1.5 | 2.0 | 2.2 | 2.4 | 3.1 | 4.0 | 4.4 | 4.9 | 5.3 | 5.5 |
| 82.5° | 0.7 | 0.9 | 1.1 | 1.3 | 1.5 | 2.0 | 2.4 | 2.9 | 3.1 | 3.5 | 3.7 |
| 85° | 0.2 | 0.4 | 0.4 | 0.7 | 0.7 | 1.1 | 1.3 | 1.5 | 1.8 | 2.0 | 2.2 |
| 87.5° | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 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: P880526

CATALOG NUMBER: LD4C02D010 EU4029050 4LBDWNH

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 | 143.5 |
| 2.5° | 144.1 | 143.5 | 143.0 | 142.8 | 144.4 | 142.4 | 143.3 | 143.5 |
| 5° | 143.3 | 142.6 | 142.2 | 141.9 | 143.3 | 141.5 | 142.2 | 142.6 |
| 7.5° | 141.9 | 141.5 | 140.8 | 140.6 | 141.9 | 139.9 | 140.8 | 141.0 |
| 10° | 140.4 | 139.7 | 139.3 | 139.1 | 140.2 | 138.2 | 139.1 | 139.1 |
| 12.5° | 138.4 | 138.0 | 137.1 | 137.1 | 138.0 | 136.2 | 136.9 | 136.9 |
| 15° | 135.8 | 135.3 | 134.4 | 134.4 | 135.3 | 133.5 | 134.2 | 134.2 |
| 17.5° | 133.5 | 133.1 | 132.4 | 132.2 | 133.1 | 131.3 | 132.0 | 131.8 |
| 20° | 131.8 | 131.3 | 130.5 | 130.5 | 131.1 | 129.4 | 130.0 | 130.0 |
| 22.5° | 130.2 | 130.0 | 129.1 | 129.1 | 130.0 | 128.2 | 128.7 | 128.2 |
| 25° | 127.8 | 127.6 | 126.7 | 126.9 | 127.4 | 125.6 | 126.3 | 125.8 |
| 27.5° | 123.8 | 123.8 | 122.9 | 122.7 | 123.4 | 121.8 | 122.3 | 122.1 |
| 30° | 117.7 | 117.9 | 116.8 | 116.8 | 117.0 | 115.7 | 116.3 | 116.1 |
| 32.5° | 109.3 | 109.5 | 108.6 | 108.4 | 109.0 | 107.9 | 108.4 | 108.4 |
| 35° | 100.0 | 100.2 | 99.5 | 99.5 | 100.2 | 99.5 | 99.5 | 99.3 |
| 37.5° | 90.7 | 91.2 | 90.7 | 90.9 | 91.4 | 90.7 | 91.2 | 90.9 |
| 40° | 83.2 | 83.7 | 83.0 | 83.4 | 83.9 | 83.2 | 83.9 | 83.4 |
| 42.5° | 76.4 | 77.0 | 76.6 | 77.0 | 77.5 | 77.0 | 77.5 | 76.8 |
| 45° | 71.3 | 71.7 | 71.5 | 71.7 | 72.2 | 72.0 | 72.2 | 72.0 |
| 47.5° | 66.4 | 67.3 | 66.9 | 67.3 | 68.0 | 67.5 | 68.0 | 67.3 |
| 50° | 62.0 | 62.7 | 62.5 | 62.9 | 63.1 | 62.9 | 63.4 | 62.7 |
| 52.5° | 56.3 | 56.9 | 56.7 | 56.7 | 57.2 | 56.7 | 57.2 | 56.7 |
| 55° | 48.8 | 49.0 | 49.0 | 49.2 | 49.0 | 48.8 | 49.0 | 48.6 |
| 57.5° | 41.5 | 41.9 | 41.3 | 41.9 | 41.7 | 41.5 | 41.5 | 41.1 |
| 60° | 36.9 | 37.5 | 37.1 | 37.5 | 37.3 | 37.3 | 37.3 | 37.1 |
| 62.5° | 33.1 | 33.6 | 33.1 | 33.3 | 33.3 | 33.3 | 33.1 | 32.9 |
| 65° | 28.9 | 29.6 | 29.1 | 29.4 | 29.1 | 28.9 | 29.1 | 28.9 |
| 67.5° | 24.7 | 24.9 | 24.9 | 24.7 | 24.7 | 24.7 | 24.7 | 24.3 |
| 70° | 20.1 | 20.3 | 20.1 | 20.5 | 20.3 | 20.1 | 20.3 | 19.9 |
| 72.5° | 15.7 | 15.9 | 15.7 | 15.9 | 15.7 | 15.7 | 15.7 | 15.7 |
| 75° | 11.7 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.5 | 11.9 |
| 77.5° | 8.4 | 8.4 | 8.4 | 8.6 | 8.4 | 8.4 | 8.4 | 8.4 |
| 80° | 5.7 | 5.7 | 5.7 | 6.0 | 5.7 | 6.0 | 5.7 | 6.0 |
| 82.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 85° | 2.0 | 2.2 | 2.2 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 87.5° | 0.4 | 0.2 | 0.2 | 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 |



Report Generated By 670246072 / DESKTOP-50001EG





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













(END OF REPORT)