

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P315358

Luminaire Tested: **LDA2B10FL9727D010 PINW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B10FL9727D010 PINW1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj PinHole, Black oculus, matte white finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 625.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.6 / 1.34
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

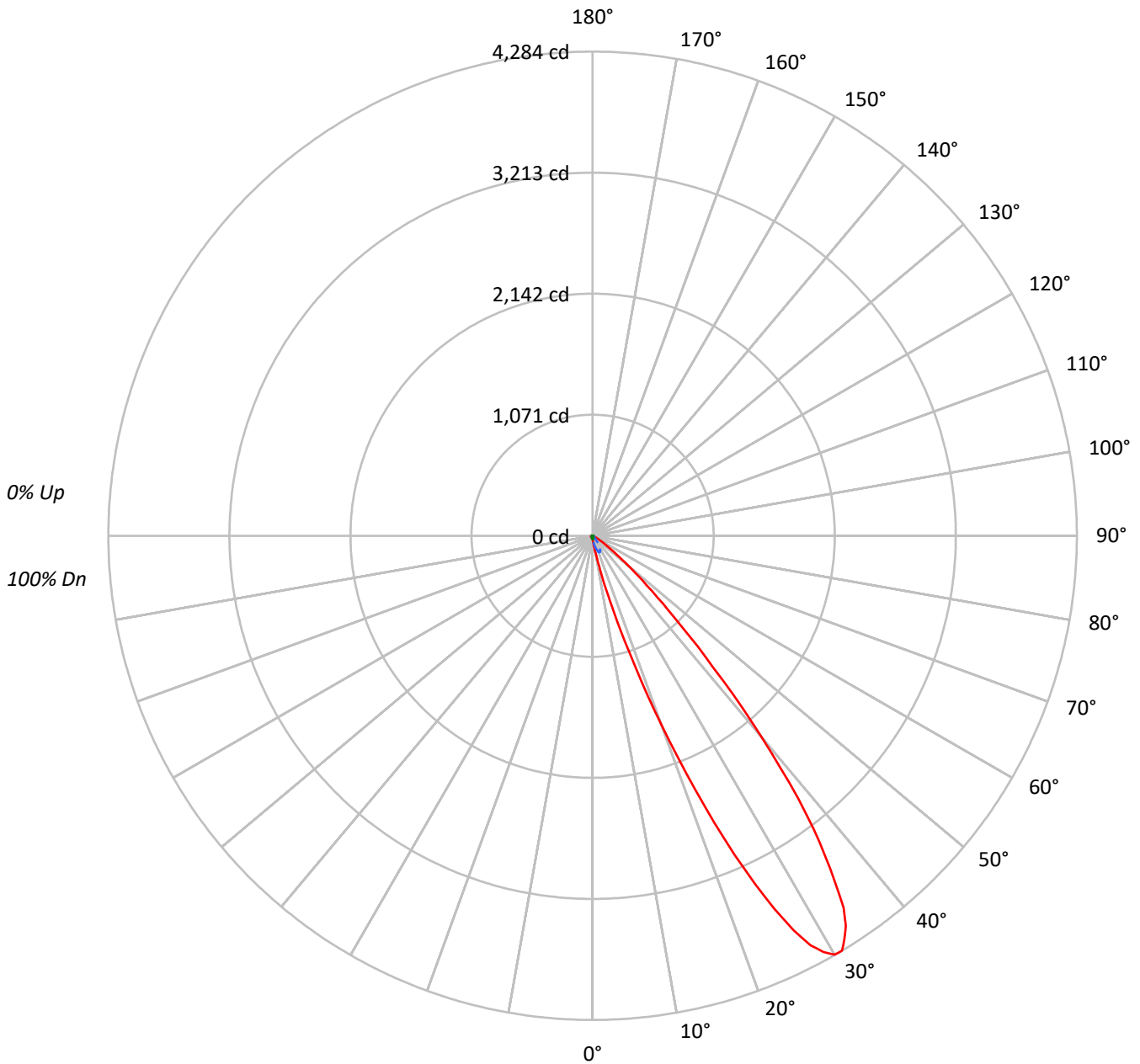
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P315358

CATALOG NUMBER: LDA2B10FL9727D010 PINW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P315358

CATALOG NUMBER: LDA2B10FL9727D010 PINW1MW

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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | | | | | | | | | | | | | | | | | |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 | | | | | | | | | | | | | | | | | | | |
| 3 | 97 | 89 | 83 | 77 | 95 | 87 | 82 | 77 | 85 | 80 | 75 | 82 | 78 | 74 | 80 | 76 | 73 | 71 | | | | | | | | | | | | | | | | | | | |
| 4 | 90 | 81 | 74 | 68 | 88 | 79 | 73 | 68 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 65 | 63 | | | | | | | | | | | | | | | | | | | |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 6 | 78 | 67 | 59 | 53 | 76 | 66 | 58 | 53 | 64 | 58 | 53 | 62 | 57 | 52 | 61 | 56 | 52 | 50 | | | | | | | | | | | | | | | | | | | |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 9 | 63 | 51 | 43 | 38 | 61 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 41 | 37 | 36 | | | | | | | | | | | | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|---------|-------|-------|
| 0° | 13123 | 13123 | 13123 |
| 5° | 29319 | 13570 | 10598 |
| 10° | 78502 | 8466 | 3006 |
| 15° | 309064 | 10930 | 7100 |
| 20° | 934964 | 6668 | 5513 |
| 25° | 1850241 | 5716 | 4899 |
| 30° | 2437967 | 3418 | 5982 |
| 35° | 2249589 | 4939 | 7227 |
| 40° | 1498419 | 4315 | 9918 |
| 45° | 706789 | 1535 | 4186 |
| 50° | 311619 | 5757 | 12971 |
| 55° | 126700 | 0 | 13246 |
| 60° | 52494 | 3651 | 11841 |
| 65° | 17978 | 4319 | 8755 |
| 70° | 15146 | 8655 | 22214 |
| 75° | 8578 | 12772 | 29356 |
| 80° | 0 | 6251 | 12785 |
| 85° | 8491 | 8491 | 42455 |



TEST NUMBER: P315358

CATALOG NUMBER: LDA2B10FL9727D010 PINW1MW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.6 | 0.6 |
| 10°-20° | 38.2 | 6.1 |
| 20°-30° | 196.6 | 31.5 |
| 30°-40° | 251.8 | 40.3 |
| 40°-50° | 96.8 | 15.5 |
| 50°-60° | 19.7 | 3.1 |
| 60°-70° | 6.7 | 1.1 |
| 70°-80° | 7.7 | 1.2 |
| 80°-90° | 3.9 | 0.6 |
| 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° | 238.5 | 38.2 |
| 0°-40° | 490.2 | 78.4 |
| 0°-60° | 606.7 | 97.1 |
| 0°-90° | 625.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 625.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 27 | 27 | 27 | 27 | 27 | |
| 5° | 59 | 49 | 27 | 20 | 21 | 9 |
| 15° | 605 | 118 | 21 | 13 | 14 | 232 |
| 25° | 3399 | 154 | 10 | 8 | 9 | 1551 |
| 35° | 3735 | 80 | 8 | 7 | 12 | 2232 |
| 45° | 1013 | 20 | 2 | 2 | 6 | 871 |
| 55° | 147 | 4 | 0 | 3 | 15 | 153 |
| 65° | 15 | 5 | 4 | 5 | 8 | 22 |
| 75° | 4 | 8 | 7 | 11 | 15 | 6 |
| 85° | 2 | 5 | 2 | 6 | 8 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P315358

CATALOG NUMBER: LDA2B10FL972D010 PINW1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 |
| 2.5° | 39.4 | 34.1 | 35.6 | 30.4 | 33.4 | 34.1 | 28.1 | 37.1 | 33.4 | 34.9 | 30.4 |
| 5° | 59.2 | 63.7 | 58.5 | 56.2 | 54.7 | 56.2 | 54.7 | 57.0 | 55.5 | 48.7 | 34.9 |
| 7.5° | 99.0 | 90.4 | 90.4 | 87.4 | 89.6 | 88.9 | 85.1 | 87.4 | 82.1 | 59.2 | 40.1 |
| 10° | 156.7 | 148.1 | 147.3 | 145.1 | 144.3 | 137.6 | 133.8 | 130.8 | 120.0 | 70.1 | 36.4 |
| 12.5° | 307.0 | 299.5 | 294.3 | 281.2 | 272.2 | 266.9 | 247.1 | 236.6 | 205.4 | 104.2 | 46.5 |
| 15° | 605.1 | 566.5 | 576.2 | 533.9 | 502.7 | 482.1 | 440.9 | 404.5 | 329.9 | 117.7 | 45.0 |
| 17.5° | 1070.7 | 1033.2 | 1008.1 | 962.0 | 898.6 | 843.9 | 762.6 | 681.9 | 530.1 | 133.8 | 42.0 |
| 20° | 1780.8 | 1721.5 | 1669.1 | 1590.0 | 1468.1 | 1362.8 | 1219.6 | 1065.5 | 789.2 | 153.0 | 37.9 |
| 21° | 2092.7 | 2047.0 | 1986.2 | 1882.0 | 1739.9 | 1599.0 | 1427.3 | 1241.7 | 899.4 | 154.5 | 34.1 |
| 22° | 2418.1 | 2388.5 | 2308.6 | 2189.1 | 2023.3 | 1855.4 | 1644.7 | 1440.7 | 1016.7 | 156.7 | 32.6 |
| 23° | 2757.0 | 2725.9 | 2635.6 | 2498.7 | 2312.4 | 2109.2 | 1863.6 | 1621.8 | 1127.0 | 159.7 | 31.9 |
| 24° | 3088.8 | 3054.3 | 2953.5 | 2800.5 | 2589.1 | 2355.5 | 2078.1 | 1797.7 | 1229.7 | 158.2 | 33.4 |
| 25° | 3398.9 | 3350.9 | 3244.4 | 3074.9 | 2842.9 | 2580.8 | 2274.9 | 1949.5 | 1320.0 | 153.7 | 28.1 |
| 26° | 3675.5 | 3620.8 | 3506.1 | 3321.3 | 3067.4 | 2783.6 | 2439.1 | 2090.5 | 1386.8 | 150.0 | 26.6 |
| 27° | 3915.9 | 3846.9 | 3724.3 | 3530.5 | 3258.3 | 2944.9 | 2579.3 | 2200.7 | 1445.6 | 144.3 | 21.4 |
| 28° | 4102.9 | 4023.8 | 3899.4 | 3694.7 | 3407.1 | 3070.4 | 2682.4 | 2269.7 | 1480.5 | 145.1 | 24.4 |
| 29° | 4210.9 | 4150.2 | 4014.8 | 3800.4 | 3497.8 | 3142.8 | 2736.8 | 2307.9 | 1487.2 | 133.8 | 22.9 |
| 30° | 4279.5 | 4211.6 | 4072.6 | 3848.4 | 3532.7 | 3159.3 | 2743.5 | 2300.8 | 1467.4 | 125.6 | 21.4 |
| 31° | 4284.0 | 4213.1 | 4071.8 | 3839.7 | 3519.2 | 3131.9 | 2706.0 | 2258.4 | 1424.3 | 117.0 | 17.6 |
| 32° | 4203.4 | 4148.7 | 4009.6 | 3770.0 | 3446.1 | 3056.6 | 2625.4 | 2186.8 | 1356.4 | 99.7 | 12.0 |
| 33° | 4112.3 | 4045.9 | 3907.6 | 3665.8 | 3344.9 | 2953.5 | 2509.2 | 2090.5 | 1285.9 | 98.2 | 15.4 |
| 34° | 3970.6 | 3890.7 | 3754.6 | 3516.6 | 3204.3 | 2806.5 | 2370.9 | 1961.9 | 1195.9 | 89.6 | 14.6 |
| 35° | 3735.1 | 3692.4 | 3554.8 | 3319.8 | 3016.5 | 2630.3 | 2204.4 | 1820.5 | 1100.3 | 79.9 | 10.5 |
| 36° | 3499.3 | 3446.8 | 3316.8 | 3089.6 | 2802.0 | 2420.4 | 2016.6 | 1659.3 | 992.4 | 67.9 | 8.2 |
| 37° | 3250.0 | 3181.4 | 3062.9 | 2840.6 | 2540.3 | 2211.2 | 1836.3 | 1505.6 | 904.3 | 71.6 | 11.2 |
| 38° | 2959.5 | 2936.6 | 2780.6 | 2573.7 | 2296.3 | 1985.5 | 1642.4 | 1343.6 | 806.8 | 66.7 | 18.4 |
| 39° | 2640.1 | 2624.7 | 2469.1 | 2280.5 | 2031.6 | 1745.9 | 1444.1 | 1175.7 | 709.3 | 48.7 | 6.0 |
| 40° | 2326.6 | 2282.8 | 2172.6 | 2001.2 | 1784.5 | 1527.7 | 1266.8 | 1032.5 | 625.0 | 48.0 | 12.0 |
| 42.5° | 1576.8 | 1590.7 | 1471.5 | 1348.9 | 1209.8 | 1035.5 | 861.5 | 707.8 | 437.1 | 35.6 | 7.5 |
| 45° | 1013.0 | 1016.0 | 962.7 | 867.5 | 776.4 | 667.7 | 553.0 | 460.8 | 281.9 | 19.9 | 2.2 |
| 47.5° | 644.8 | 643.3 | 609.2 | 554.5 | 494.9 | 431.1 | 359.5 | 301.0 | 182.6 | 15.4 | 6.7 |
| 50° | 406.0 | 404.5 | 383.1 | 348.3 | 314.9 | 272.9 | 227.9 | 193.8 | 115.5 | 18.4 | 7.5 |
| 51° | 329.9 | 332.2 | 314.2 | 278.9 | 253.1 | 212.9 | 181.8 | 154.5 | 90.4 | 12.7 | 6.7 |
| 52° | 272.2 | 270.7 | 259.4 | 229.8 | 208.4 | 174.0 | 148.1 | 126.3 | 75.4 | 11.2 | 3.0 |
| 53° | 218.9 | 219.7 | 208.4 | 185.6 | 165.0 | 139.1 | 118.5 | 98.2 | 54.0 | 8.2 | 2.2 |
| 54° | 173.2 | 171.7 | 168.0 | 145.8 | 133.1 | 110.2 | 92.6 | 75.4 | 46.5 | 1.5 | 0.0 |
| 55° | 147.3 | 145.1 | 139.8 | 120.7 | 108.0 | 91.1 | 73.9 | 64.5 | 40.1 | 3.7 | 0.0 |
| 57.5° | 85.1 | 85.1 | 82.1 | 71.6 | 63.0 | 56.2 | 45.0 | 42.0 | 20.6 | 3.7 | 0.0 |
| 60° | 53.2 | 46.5 | 51.7 | 44.2 | 34.9 | 31.1 | 25.9 | 23.6 | 17.6 | 6.7 | 1.5 |
| 61° | 44.2 | 35.6 | 34.9 | 32.6 | 30.4 | 20.6 | 17.6 | 19.1 | 11.2 | 2.2 | 1.5 |
| 62° | 31.9 | 28.1 | 30.4 | 25.9 | 22.9 | 16.1 | 14.6 | 13.9 | 6.7 | 3.0 | 3.7 |
| 63° | 28.9 | 25.9 | 25.1 | 19.1 | 16.9 | 16.9 | 12.7 | 12.0 | 8.2 | 6.0 | 3.0 |



TEST NUMBER: P315358

CATALOG NUMBER: LDA2B10FL9727D010 PINW1MW

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|------|------|------|------|-----|-------|-----|-------|-------|------|-------|
| 66° | 15.4 | 12.7 | 11.2 | 12.7 | 7.5 | 9.7 | 3.7 | 10.5 | 2.2 | 3.7 | 2.2 |
| 67.5° | 12.0 | 7.5 | 6.7 | 8.2 | 5.2 | 3.7 | 5.2 | 6.7 | 2.2 | 3.7 | 5.2 |
| 70° | 10.5 | 5.2 | 7.5 | 6.7 | 5.2 | 6.7 | 7.5 | 7.5 | 2.2 | 7.5 | 6.7 |
| 72.5° | 10.5 | 6.7 | 3.7 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.5 | 10.5 | 8.2 |
| 75° | 4.5 | 4.5 | 2.2 | 5.2 | 3.0 | 4.5 | 3.0 | 7.5 | 3.0 | 8.2 | 6.7 |
| 77.5° | 3.0 | 3.7 | 0.0 | 3.7 | 0.0 | 0.0 | 2.2 | 5.2 | 2.2 | 6.0 | 7.5 |
| 80° | 0.0 | 3.7 | 2.2 | 0.0 | 1.5 | 2.2 | 0.0 | 0.7 | 1.5 | 6.7 | 3.0 |
| 82.5° | 1.5 | 2.2 | 3.0 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 3.7 |
| 85° | 1.5 | 3.0 | 0.0 | 0.7 | 3.0 | 1.5 | 0.7 | 3.7 | 1.5 | 5.2 | 6.0 |
| 87.5° | 0.0 | 1.5 | 1.5 | 0.0 | 2.2 | 0.0 | 2.2 | 1.5 | 0.0 | 4.5 | 2.2 |
| 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: P315358

CATALOG NUMBER: LDA2B10FL9727D010 PINW1MW

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0° | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 |
| 2.5° | 22.9 | 20.6 | 17.6 | 22.1 | 18.4 |
| 5° | 27.4 | 25.1 | 19.9 | 23.6 | 21.4 |
| 7.5° | 28.1 | 23.6 | 20.6 | 19.1 | 21.4 |
| 10° | 16.9 | 11.2 | 8.2 | 11.2 | 6.0 |
| 12.5° | 28.1 | 19.9 | 18.4 | 20.6 | 22.9 |
| 15° | 21.4 | 12.7 | 12.7 | 9.7 | 13.9 |
| 17.5° | 12.0 | 9.7 | 9.0 | 12.0 | 13.9 |
| 20° | 12.7 | 8.2 | 6.7 | 11.2 | 10.5 |
| 21° | 11.2 | 3.0 | 9.0 | 9.0 | 10.5 |
| 22° | 16.1 | 7.5 | 9.0 | 14.6 | 15.4 |
| 23° | 10.5 | 8.2 | 6.7 | 9.0 | 12.0 |
| 24° | 15.4 | 9.0 | 8.2 | 11.2 | 16.9 |
| 25° | 10.5 | 8.2 | 8.2 | 10.5 | 9.0 |
| 26° | 6.0 | 8.2 | 6.0 | 9.0 | 7.5 |
| 27° | 4.5 | 7.5 | 4.5 | 6.7 | 9.0 |
| 28° | 9.7 | 12.0 | 11.2 | 12.0 | 10.5 |
| 29° | 10.5 | 12.7 | 10.5 | 16.1 | 12.0 |
| 30° | 6.0 | 11.2 | 5.2 | 12.0 | 10.5 |
| 31° | 6.0 | 8.2 | 3.7 | 12.0 | 10.5 |
| 32° | 0.7 | 4.5 | 2.2 | 4.5 | 4.5 |
| 33° | 4.5 | 5.2 | 6.0 | 9.7 | 7.5 |
| 34° | 7.5 | 9.0 | 6.0 | 10.5 | 9.0 |
| 35° | 8.2 | 4.5 | 6.7 | 11.2 | 12.0 |
| 36° | 2.2 | 2.2 | 3.7 | 9.0 | 3.0 |
| 37° | 4.5 | 12.7 | 9.0 | 15.4 | 9.0 |
| 38° | 7.5 | 15.4 | 14.6 | 19.1 | 15.4 |
| 39° | 1.5 | 4.5 | 5.2 | 10.5 | 10.5 |
| 40° | 6.7 | 11.2 | 8.2 | 15.4 | 15.4 |
| 42.5° | 5.2 | 8.2 | 6.0 | 12.7 | 10.5 |
| 45° | 2.2 | 2.2 | 1.5 | 8.2 | 6.0 |
| 47.5° | 3.7 | 3.7 | 6.7 | 10.5 | 18.4 |
| 50° | 7.5 | 7.5 | 9.7 | 17.6 | 16.9 |
| 51° | 4.5 | 3.7 | 5.2 | 12.0 | 15.4 |
| 52° | 3.7 | 5.2 | 5.2 | 12.0 | 12.0 |
| 53° | 1.5 | 0.0 | 0.0 | 9.0 | 7.5 |
| 54° | 1.5 | 0.7 | 2.2 | 6.7 | 10.5 |
| 55° | 0.0 | 3.7 | 3.0 | 13.9 | 15.4 |
| 57.5° | 0.7 | 6.0 | 3.0 | 9.7 | 12.0 |
| 60° | 3.7 | 4.5 | 8.2 | 9.7 | 12.0 |
| 61° | 0.0 | 3.7 | 3.7 | 9.0 | 10.5 |
| 62° | 0.0 | 3.0 | 6.7 | 8.2 | 10.5 |
| 63° | 3.7 | 4.5 | 6.0 | 9.7 | 12.0 |



TEST NUMBER: P315358

CATALOG NUMBER: LDA2B10FL9727D010 PINW1MW

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 66° | 2.2 | 6.0 | 7.5 | 9.7 | 9.0 |
| 67.5° | 4.5 | 5.2 | 4.5 | 12.7 | 15.4 |
| 70° | 6.0 | 9.7 | 10.5 | 9.0 | 15.4 |
| 72.5° | 3.7 | 5.2 | 7.5 | 13.9 | 15.4 |
| 75° | 6.7 | 7.5 | 11.2 | 12.7 | 15.4 |
| 77.5° | 5.2 | 7.5 | 7.5 | 8.2 | 15.4 |
| 80° | 2.2 | 6.7 | 7.5 | 8.2 | 4.5 |
| 82.5° | 3.0 | 4.5 | 3.0 | 8.2 | 6.0 |
| 85° | 1.5 | 6.7 | 6.0 | 7.5 | 7.5 |
| 87.5° | 2.2 | 3.7 | 3.7 | 6.7 | 4.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By E9808895 / USPTCWHP6082093





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







| | | | | | | | | | | | |
|-----|------|------|------|------|-----|-----|-----|------|-----|-----|-----|
| 64° | 16.9 | 17.6 | 16.9 | 12.0 | 9.0 | 8.2 | 6.0 | 10.5 | 3.0 | 3.0 | 0.0 |
| 65° | 15.4 | 16.9 | 12.7 | 14.6 | 9.7 | 9.0 | 5.2 | 10.5 | 1.5 | 5.2 | 3.7 |





| | | | | | |
|-----|-----|-----|-----|-----|------|
| 64° | 2.2 | 3.7 | 3.7 | 6.7 | 10.5 |
| 65° | 3.7 | 5.2 | 5.2 | 9.7 | 7.5 |



(END OF REPORT)