

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: P315361

Luminaire Tested: **LDA2B10FL9727D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315361
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 PIN1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in
Adj PinHole, Black oculus black finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 602.1 lumens
Efficiency: N/A
Efficacy: 60.2 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

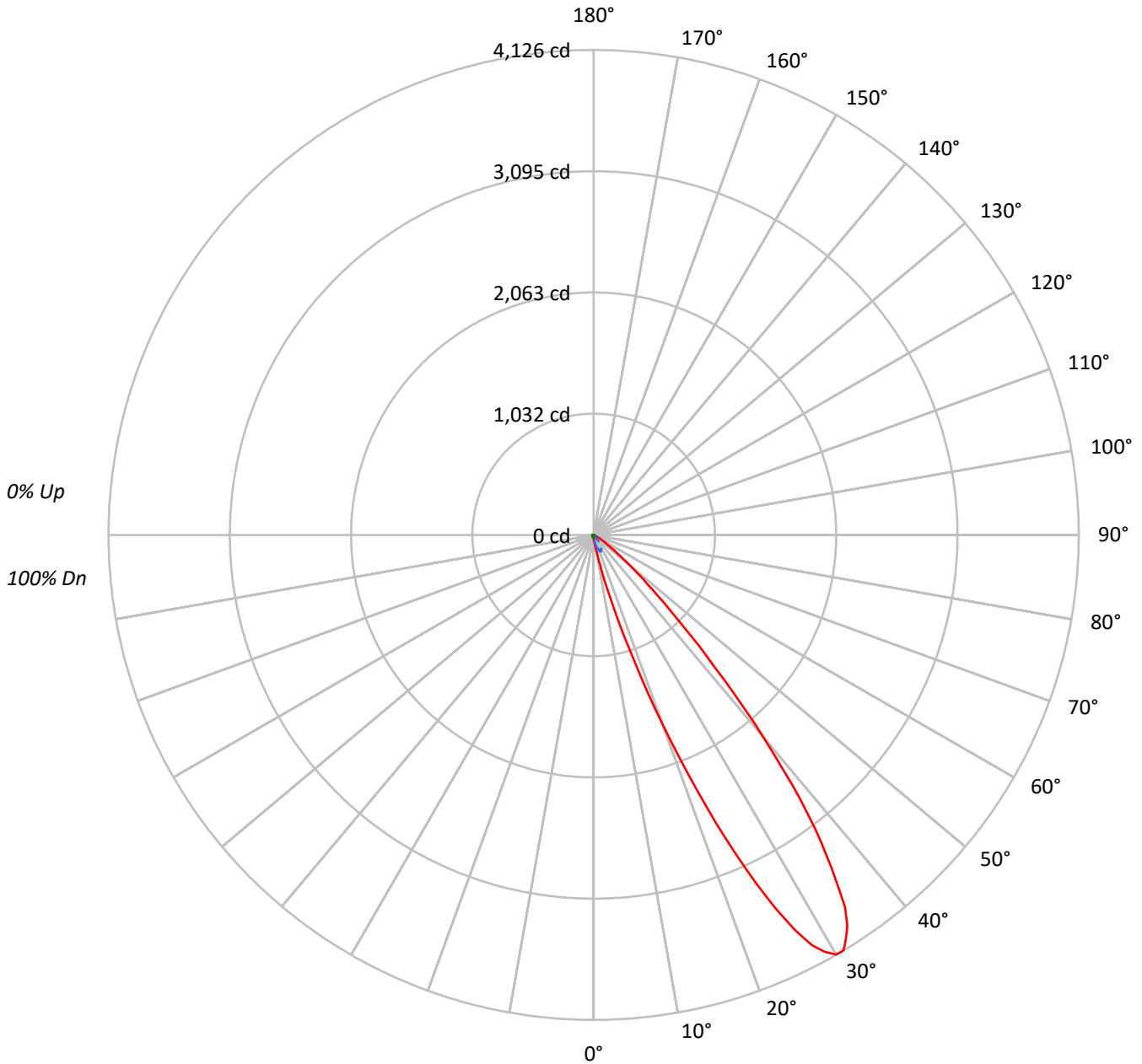
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P315361

CATALOG NUMBER: LDA2B10FL9727D010 PIN1MB

Luminous Intensity Polar Plot





TEST NUMBER: P315361

CATALOG NUMBER: LDA2B10FL9727D010 PIN1MB

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 | 82 | 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° | 12630 | 12630 | 12630 |
| 5° | 28279 | 13075 | 10202 |
| 10° | 75597 | 8116 | 2906 |
| 15° | 297674 | 10522 | 6844 |
| 20° | 900470 | 6458 | 5303 |
| 25° | 1782032 | 5498 | 4736 |
| 30° | 2348128 | 3304 | 5754 |
| 35° | 2166715 | 4758 | 6986 |
| 40° | 1443225 | 4186 | 9532 |
| 45° | 680695 | 1535 | 4047 |
| 50° | 300183 | 5526 | 12434 |
| 55° | 122055 | 0 | 12730 |
| 60° | 50619 | 3552 | 11446 |
| 65° | 17277 | 4203 | 8405 |
| 70° | 14569 | 8366 | 21349 |
| 75° | 8197 | 12390 | 28212 |
| 80° | 0 | 6251 | 12217 |
| 85° | 7925 | 7925 | 40757 |



TEST NUMBER: P315361

CATALOG NUMBER: LDA2B10FL9727D010 PIN1MB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.5 | 0.6 |
| 10°-20° | 36.8 | 6.1 |
| 20°-30° | 189.4 | 31.5 |
| 30°-40° | 242.5 | 40.3 |
| 40°-50° | 93.2 | 15.5 |
| 50°-60° | 19.0 | 3.1 |
| 60°-70° | 6.4 | 1.1 |
| 70°-80° | 7.5 | 1.2 |
| 80°-90° | 3.8 | 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° | 229.7 | 38.1 |
| 0°-40° | 472.2 | 78.4 |
| 0°-60° | 584.4 | 97.1 |
| 0°-90° | 602.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 602.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 26 | 26 | 26 | 26 | 26 | |
| 5° | 57 | 47 | 26 | 19 | 21 | 8 |
| 15° | 583 | 113 | 21 | 12 | 13 | 223 |
| 25° | 3274 | 148 | 10 | 8 | 9 | 1494 |
| 35° | 3598 | 77 | 8 | 6 | 12 | 2150 |
| 45° | 976 | 19 | 2 | 1 | 6 | 839 |
| 55° | 142 | 4 | 0 | 3 | 15 | 147 |
| 65° | 15 | 5 | 4 | 5 | 7 | 21 |
| 75° | 4 | 8 | 6 | 11 | 15 | 6 |
| 85° | 1 | 5 | 1 | 6 | 7 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P315361

CATALOG NUMBER: LDA2B10FL9727D010 PIN1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 |
| 2.5° | 37.9 | 32.9 | 34.3 | 29.2 | 32.1 | 32.9 | 27.1 | 35.7 | 32.1 | 33.6 | 29.2 |
| 5° | 57.1 | 61.4 | 56.3 | 54.2 | 52.7 | 54.2 | 52.7 | 54.9 | 53.4 | 46.9 | 33.6 |
| 7.5° | 95.3 | 87.0 | 87.0 | 84.1 | 86.3 | 85.6 | 82.0 | 84.1 | 79.1 | 57.1 | 38.6 |
| 10° | 150.9 | 142.6 | 141.9 | 139.7 | 139.0 | 132.5 | 128.9 | 126.0 | 115.5 | 67.5 | 35.0 |
| 12.5° | 295.7 | 288.5 | 283.4 | 270.8 | 262.1 | 257.1 | 238.0 | 227.8 | 197.9 | 100.4 | 44.8 |
| 15° | 582.8 | 545.6 | 555.0 | 514.2 | 484.2 | 464.4 | 424.6 | 389.6 | 317.8 | 113.4 | 43.3 |
| 17.5° | 1031.3 | 995.1 | 971.0 | 926.5 | 865.5 | 812.8 | 734.4 | 656.8 | 510.6 | 128.9 | 40.4 |
| 20° | 1715.1 | 1658.1 | 1607.5 | 1531.4 | 1414.0 | 1312.5 | 1174.6 | 1026.2 | 760.1 | 147.3 | 36.5 |
| 21° | 2015.6 | 1971.5 | 1913.0 | 1812.6 | 1675.8 | 1540.0 | 1374.6 | 1195.9 | 866.2 | 148.8 | 32.9 |
| 22° | 2329.0 | 2300.5 | 2223.5 | 2108.4 | 1948.8 | 1787.0 | 1584.1 | 1387.6 | 979.3 | 150.9 | 31.4 |
| 23° | 2655.4 | 2625.4 | 2538.4 | 2406.6 | 2227.2 | 2031.5 | 1794.9 | 1562.0 | 1085.4 | 153.8 | 30.7 |
| 24° | 2975.0 | 2941.7 | 2844.6 | 2697.3 | 2493.6 | 2268.7 | 2001.5 | 1731.4 | 1184.4 | 152.4 | 32.1 |
| 25° | 3273.6 | 3227.4 | 3124.8 | 2961.6 | 2738.1 | 2485.7 | 2191.1 | 1877.6 | 1271.4 | 148.0 | 27.1 |
| 26° | 3540.1 | 3487.3 | 3376.8 | 3198.8 | 2954.4 | 2681.0 | 2349.2 | 2013.4 | 1335.6 | 144.4 | 25.6 |
| 27° | 3771.5 | 3705.1 | 3587.0 | 3400.3 | 3138.2 | 2836.3 | 2484.2 | 2119.6 | 1392.3 | 139.0 | 20.6 |
| 28° | 3951.7 | 3875.5 | 3755.6 | 3558.5 | 3281.5 | 2957.3 | 2583.5 | 2186.0 | 1425.9 | 139.7 | 23.5 |
| 29° | 4055.7 | 3997.2 | 3866.8 | 3660.3 | 3368.9 | 3027.0 | 2635.9 | 2222.8 | 1432.4 | 128.9 | 22.0 |
| 30° | 4121.8 | 4056.4 | 3922.4 | 3706.5 | 3402.5 | 3042.8 | 2642.4 | 2216.0 | 1413.3 | 121.0 | 20.6 |
| 31° | 4126.1 | 4057.8 | 3921.7 | 3698.2 | 3389.5 | 3016.5 | 2606.3 | 2175.2 | 1371.8 | 112.7 | 17.0 |
| 32° | 4048.5 | 3995.7 | 3861.8 | 3631.0 | 3319.1 | 2943.9 | 2528.7 | 2106.2 | 1306.4 | 96.0 | 11.6 |
| 33° | 3960.7 | 3896.8 | 3763.6 | 3530.7 | 3221.6 | 2844.6 | 2416.7 | 2013.4 | 1238.5 | 94.6 | 14.8 |
| 34° | 3824.2 | 3747.3 | 3616.2 | 3387.0 | 3086.2 | 2703.1 | 2283.5 | 1889.5 | 1151.9 | 86.3 | 14.1 |
| 35° | 3597.5 | 3556.3 | 3423.8 | 3197.4 | 2905.3 | 2533.4 | 2123.2 | 1753.4 | 1059.8 | 76.9 | 10.1 |
| 36° | 3370.3 | 3319.8 | 3194.5 | 2975.7 | 2698.7 | 2331.2 | 1942.3 | 1598.2 | 955.8 | 65.4 | 7.9 |
| 37° | 3130.2 | 3064.1 | 2950.0 | 2735.9 | 2446.7 | 2129.7 | 1768.6 | 1450.1 | 870.9 | 69.0 | 10.8 |
| 38° | 2850.4 | 2828.4 | 2678.2 | 2478.8 | 2211.6 | 1912.3 | 1581.9 | 1294.1 | 777.1 | 64.3 | 17.7 |
| 39° | 2542.7 | 2527.9 | 2378.1 | 2196.5 | 1956.7 | 1681.6 | 1390.9 | 1132.4 | 683.2 | 46.9 | 5.8 |
| 40° | 2240.9 | 2198.6 | 2092.5 | 1927.5 | 1718.8 | 1471.4 | 1220.1 | 994.4 | 601.9 | 46.2 | 11.6 |
| 42.5° | 1518.7 | 1532.1 | 1417.2 | 1299.2 | 1165.2 | 997.3 | 829.8 | 681.7 | 421.0 | 34.3 | 7.2 |
| 45° | 975.6 | 978.5 | 927.3 | 835.5 | 747.8 | 643.1 | 532.6 | 443.8 | 271.5 | 19.1 | 2.2 |
| 47.5° | 621.1 | 619.6 | 586.8 | 534.0 | 476.6 | 415.2 | 346.3 | 289.9 | 175.8 | 14.8 | 6.5 |
| 50° | 391.1 | 389.6 | 369.0 | 335.4 | 303.3 | 262.9 | 219.5 | 186.7 | 111.2 | 17.7 | 7.2 |
| 51° | 317.8 | 319.9 | 302.6 | 268.6 | 243.7 | 205.1 | 175.1 | 148.8 | 87.0 | 12.3 | 6.5 |
| 52° | 262.1 | 260.7 | 249.9 | 221.3 | 200.8 | 167.5 | 142.6 | 121.7 | 72.6 | 10.8 | 2.9 |
| 53° | 210.9 | 211.6 | 200.8 | 178.7 | 158.9 | 134.0 | 114.1 | 94.6 | 52.0 | 7.9 | 2.2 |
| 54° | 166.8 | 165.4 | 161.8 | 140.5 | 128.2 | 106.2 | 89.2 | 72.6 | 44.8 | 1.4 | 0.0 |
| 55° | 141.9 | 139.7 | 134.7 | 116.3 | 104.0 | 87.7 | 71.1 | 62.1 | 38.6 | 3.6 | 0.0 |
| 57.5° | 82.0 | 82.0 | 79.1 | 69.0 | 60.7 | 54.2 | 43.3 | 40.4 | 19.9 | 3.6 | 0.0 |
| 60° | 51.3 | 44.8 | 49.8 | 42.6 | 33.6 | 30.0 | 24.9 | 22.7 | 17.0 | 6.5 | 1.4 |
| 61° | 42.6 | 34.3 | 33.6 | 31.4 | 29.2 | 19.9 | 17.0 | 18.4 | 10.8 | 2.2 | 1.4 |
| 62° | 30.7 | 27.1 | 29.2 | 24.9 | 22.0 | 15.5 | 14.1 | 13.4 | 6.5 | 2.9 | 3.6 |
| 63° | 27.8 | 24.9 | 24.2 | 18.4 | 16.2 | 16.2 | 12.3 | 11.6 | 7.9 | 5.8 | 2.9 |



TEST NUMBER: P315361

CATALOG NUMBER: LDA2B10FL9727D010 PIN1MB

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|------|------|------|------|-----|-------|-----|-------|-------|------|-------|
| 66° | 14.8 | 12.3 | 10.8 | 12.3 | 7.2 | 9.4 | 3.6 | 10.1 | 2.2 | 3.6 | 2.2 |
| 67.5° | 11.6 | 7.2 | 6.5 | 7.9 | 5.1 | 3.6 | 5.1 | 6.5 | 2.2 | 3.6 | 5.1 |
| 70° | 10.1 | 5.1 | 7.2 | 6.5 | 5.1 | 6.5 | 7.2 | 7.2 | 2.2 | 7.2 | 6.5 |
| 72.5° | 10.1 | 6.5 | 3.6 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 4.3 | 10.1 | 7.9 |
| 75° | 4.3 | 4.3 | 2.2 | 5.1 | 2.9 | 4.3 | 2.9 | 7.2 | 2.9 | 7.9 | 6.5 |
| 77.5° | 2.9 | 3.6 | 0.0 | 3.6 | 0.0 | 0.0 | 2.2 | 5.1 | 2.2 | 5.8 | 7.2 |
| 80° | 0.0 | 3.6 | 2.2 | 0.0 | 1.4 | 2.2 | 0.0 | 0.7 | 1.4 | 6.5 | 2.9 |
| 82.5° | 1.4 | 2.2 | 2.9 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 | 3.6 |
| 85° | 1.4 | 2.9 | 0.0 | 0.7 | 2.9 | 1.4 | 0.7 | 3.6 | 1.4 | 5.1 | 5.8 |
| 87.5° | 0.0 | 1.4 | 1.4 | 0.0 | 2.2 | 0.0 | 2.2 | 1.4 | 0.0 | 4.3 | 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: P315361

CATALOG NUMBER: LDA2B10FL9727D010 PIN1MB

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0° | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 |
| 2.5° | 22.0 | 19.9 | 17.0 | 21.3 | 17.7 |
| 5° | 26.4 | 24.2 | 19.1 | 22.7 | 20.6 |
| 7.5° | 27.1 | 22.7 | 19.9 | 18.4 | 20.6 |
| 10° | 16.2 | 10.8 | 7.9 | 10.8 | 5.8 |
| 12.5° | 27.1 | 19.1 | 17.7 | 19.9 | 22.0 |
| 15° | 20.6 | 12.3 | 12.3 | 9.4 | 13.4 |
| 17.5° | 11.6 | 9.4 | 8.7 | 11.6 | 13.4 |
| 20° | 12.3 | 7.9 | 6.5 | 10.8 | 10.1 |
| 21° | 10.8 | 2.9 | 8.7 | 8.7 | 10.1 |
| 22° | 15.5 | 7.2 | 8.7 | 14.1 | 14.8 |
| 23° | 10.1 | 7.9 | 6.5 | 8.7 | 11.6 |
| 24° | 14.8 | 8.7 | 7.9 | 10.8 | 16.2 |
| 25° | 10.1 | 7.9 | 7.9 | 10.1 | 8.7 |
| 26° | 5.8 | 7.9 | 5.8 | 8.7 | 7.2 |
| 27° | 4.3 | 7.2 | 4.3 | 6.5 | 8.7 |
| 28° | 9.4 | 11.6 | 10.8 | 11.6 | 10.1 |
| 29° | 10.1 | 12.3 | 10.1 | 15.5 | 11.6 |
| 30° | 5.8 | 10.8 | 5.1 | 11.6 | 10.1 |
| 31° | 5.8 | 7.9 | 3.6 | 11.6 | 10.1 |
| 32° | 0.7 | 4.3 | 2.2 | 4.3 | 4.3 |
| 33° | 4.3 | 5.1 | 5.8 | 9.4 | 7.2 |
| 34° | 7.2 | 8.7 | 5.8 | 10.1 | 8.7 |
| 35° | 7.9 | 4.3 | 6.5 | 10.8 | 11.6 |
| 36° | 2.2 | 2.2 | 3.6 | 8.7 | 2.9 |
| 37° | 4.3 | 12.3 | 8.7 | 14.8 | 8.7 |
| 38° | 7.2 | 14.8 | 14.1 | 18.4 | 14.8 |
| 39° | 1.4 | 4.3 | 5.1 | 10.1 | 10.1 |
| 40° | 6.5 | 10.8 | 7.9 | 14.8 | 14.8 |
| 42.5° | 5.1 | 7.9 | 5.8 | 12.3 | 10.1 |
| 45° | 2.2 | 2.2 | 1.4 | 7.9 | 5.8 |
| 47.5° | 3.6 | 3.6 | 6.5 | 10.1 | 17.7 |
| 50° | 7.2 | 7.2 | 9.4 | 17.0 | 16.2 |
| 51° | 4.3 | 3.6 | 5.1 | 11.6 | 14.8 |
| 52° | 3.6 | 5.1 | 5.1 | 11.6 | 11.6 |
| 53° | 1.4 | 0.0 | 0.0 | 8.7 | 7.2 |
| 54° | 1.4 | 0.7 | 2.2 | 6.5 | 10.1 |
| 55° | 0.0 | 3.6 | 2.9 | 13.4 | 14.8 |
| 57.5° | 0.7 | 5.8 | 2.9 | 9.4 | 11.6 |
| 60° | 3.6 | 4.3 | 7.9 | 9.4 | 11.6 |
| 61° | 0.0 | 3.6 | 3.6 | 8.7 | 10.1 |
| 62° | 0.0 | 2.9 | 6.5 | 7.9 | 10.1 |
| 63° | 3.6 | 4.3 | 5.8 | 9.4 | 11.6 |



TEST NUMBER: P315361

CATALOG NUMBER: LDA2B10FL9727D010 PIN1MB

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 66° | 2.2 | 5.8 | 7.2 | 9.4 | 8.7 |
| 67.5° | 4.3 | 5.1 | 4.3 | 12.3 | 14.8 |
| 70° | 5.8 | 9.4 | 10.1 | 8.7 | 14.8 |
| 72.5° | 3.6 | 5.1 | 7.2 | 13.4 | 14.8 |
| 75° | 6.5 | 7.2 | 10.8 | 12.3 | 14.8 |
| 77.5° | 5.1 | 7.2 | 7.2 | 7.9 | 14.8 |
| 80° | 2.2 | 6.5 | 7.2 | 7.9 | 4.3 |
| 82.5° | 2.9 | 4.3 | 2.9 | 7.9 | 5.8 |
| 85° | 1.4 | 6.5 | 5.8 | 7.2 | 7.2 |
| 87.5° | 2.2 | 3.6 | 3.6 | 6.5 | 4.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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







| | | | | | | | | | | | |
|-----|------|------|------|------|-----|-----|-----|------|-----|-----|-----|
| 64° | 16.2 | 17.0 | 16.2 | 11.6 | 8.7 | 7.9 | 5.8 | 10.1 | 2.9 | 2.9 | 0.0 |
| 65° | 14.8 | 16.2 | 12.3 | 14.1 | 9.4 | 8.7 | 5.1 | 10.1 | 1.4 | 5.1 | 3.6 |





| | | | | | |
|-----|-----|-----|-----|-----|------|
| 64° | 2.2 | 3.6 | 3.6 | 6.5 | 10.1 |
| 65° | 3.6 | 5.1 | 5.1 | 9.4 | 7.2 |



(END OF REPORT)