

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: P315253

Luminaire Tested: **LDA2B05FL9030D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315253
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: LDA2B05FL9030D010 PIN1MB
Description: PORTFOLIO 2IN ADJ 500 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: 513.9 lumens
Efficiency: N/A
Efficacy: 73.4 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

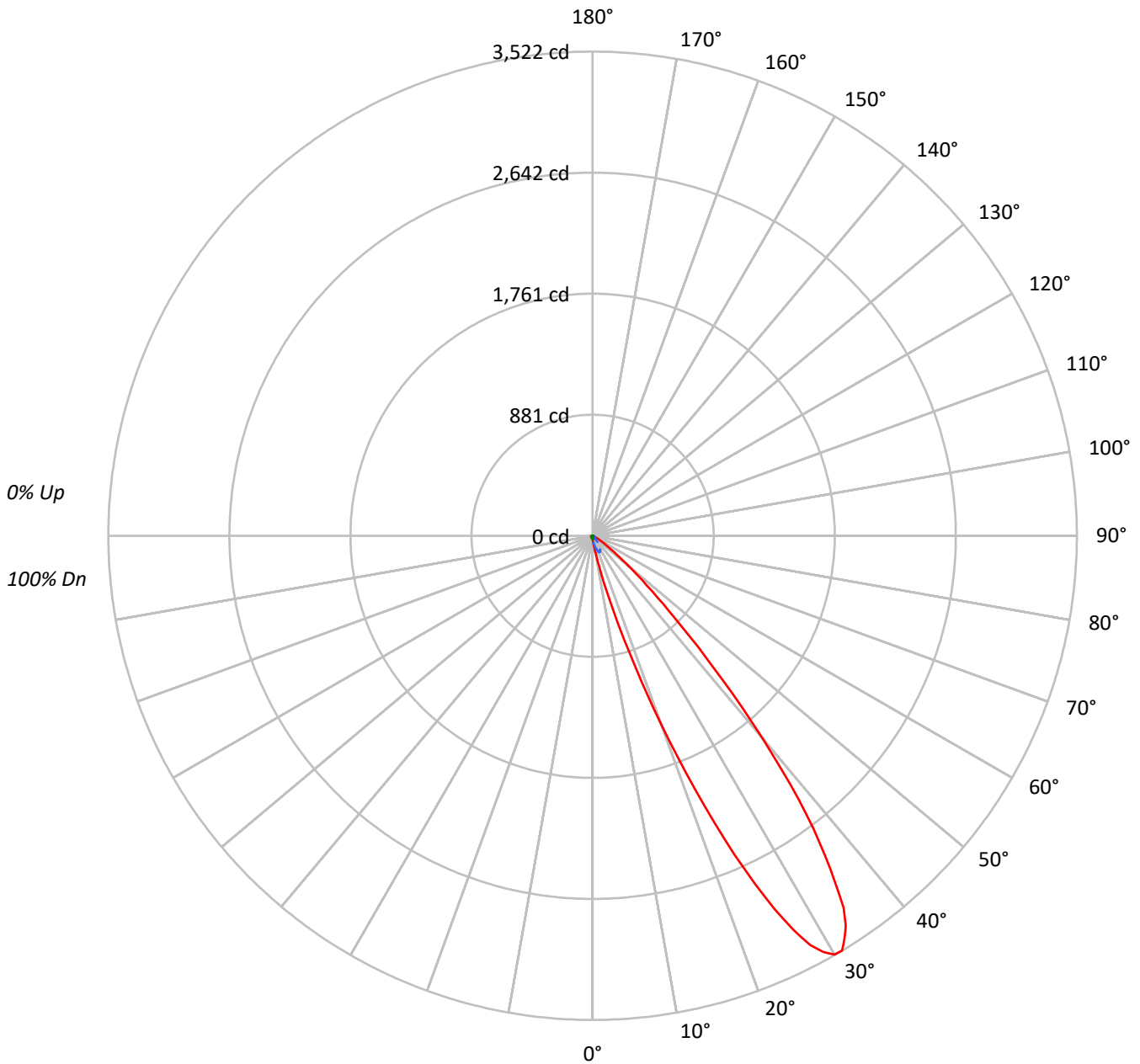
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P315253

CATALOG NUMBER: LDA2B05FL9030D010 PIN1MB

Luminous Intensity Polar Plot





TEST NUMBER: P315253

CATALOG NUMBER: LDA2B05FL9030D010 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° | 10805 | 10805 | 10805 |
| 5° | 24118 | 11143 | 8716 |
| 10° | 64525 | 6964 | 2455 |
| 15° | 254055 | 8989 | 5823 |
| 20° | 768531 | 5513 | 4515 |
| 25° | 1520900 | 4682 | 4028 |
| 30° | 2004038 | 2791 | 4899 |
| 35° | 1849251 | 4096 | 5963 |
| 40° | 1231723 | 3542 | 8115 |
| 45° | 580991 | 1256 | 3419 |
| 50° | 256203 | 4759 | 10669 |
| 55° | 104164 | 0 | 10838 |
| 60° | 43218 | 3059 | 9769 |
| 65° | 14709 | 3619 | 7238 |
| 70° | 12405 | 7068 | 18175 |
| 75° | 7053 | 10484 | 24018 |
| 80° | 0 | 5114 | 10512 |
| 85° | 6793 | 6793 | 35096 |



TEST NUMBER: P315253

CATALOG NUMBER: LDA2B05FL9030D010 PIN1MB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.0 | 0.6 |
| 10°-20° | 31.4 | 6.1 |
| 20°-30° | 161.6 | 31.5 |
| 30°-40° | 207.0 | 40.3 |
| 40°-50° | 79.6 | 15.5 |
| 50°-60° | 16.2 | 3.1 |
| 60°-70° | 5.5 | 1.1 |
| 70°-80° | 6.4 | 1.2 |
| 80°-90° | 3.3 | 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° | 196.0 | 38.2 |
| 0°-40° | 403.0 | 78.4 |
| 0°-60° | 498.7 | 97.1 |
| 0°-90° | 513.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 513.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 22 | 22 | 22 | 22 | 22 | |
| 5° | 49 | 40 | 22 | 16 | 18 | 7 |
| 15° | 497 | 97 | 18 | 10 | 11 | 191 |
| 25° | 2794 | 126 | 9 | 7 | 7 | 1275 |
| 35° | 3070 | 66 | 7 | 6 | 10 | 1835 |
| 45° | 833 | 16 | 2 | 1 | 5 | 716 |
| 55° | 121 | 3 | 0 | 2 | 13 | 125 |
| 65° | 13 | 4 | 3 | 4 | 6 | 18 |
| 75° | 4 | 7 | 6 | 9 | 13 | 5 |
| 85° | 1 | 4 | 1 | 5 | 6 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P315253

CATALOG NUMBER: LDA2B05FL9030D010 PIN1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 |
| 2.5° | 32.4 | 28.0 | 29.3 | 25.0 | 27.4 | 28.0 | 23.1 | 30.5 | 27.4 | 28.7 | 25.0 |
| 5° | 48.7 | 52.4 | 48.1 | 46.2 | 45.0 | 46.2 | 45.0 | 46.8 | 45.6 | 40.1 | 28.7 |
| 7.5° | 81.4 | 74.3 | 74.3 | 71.8 | 73.7 | 73.0 | 70.0 | 71.8 | 67.5 | 48.7 | 33.0 |
| 10° | 128.8 | 121.7 | 121.1 | 119.3 | 118.6 | 113.1 | 110.0 | 107.6 | 98.6 | 57.6 | 29.9 |
| 12.5° | 252.4 | 246.2 | 241.9 | 231.1 | 223.7 | 219.4 | 203.1 | 194.5 | 168.9 | 85.7 | 38.2 |
| 15° | 497.4 | 465.7 | 473.7 | 438.8 | 413.3 | 396.3 | 362.4 | 332.5 | 271.2 | 96.8 | 37.0 |
| 17.5° | 880.2 | 849.3 | 828.7 | 790.8 | 738.7 | 693.7 | 626.8 | 560.6 | 435.8 | 110.0 | 34.5 |
| 20° | 1463.8 | 1415.2 | 1372.0 | 1307.0 | 1206.8 | 1120.2 | 1002.5 | 875.8 | 648.7 | 125.7 | 31.1 |
| 21° | 1720.2 | 1682.6 | 1632.7 | 1547.1 | 1430.3 | 1314.4 | 1173.2 | 1020.7 | 739.3 | 127.0 | 28.0 |
| 22° | 1987.7 | 1963.4 | 1897.8 | 1799.4 | 1663.2 | 1525.2 | 1352.0 | 1184.3 | 835.8 | 128.8 | 26.8 |
| 23° | 2266.3 | 2240.8 | 2166.5 | 2054.0 | 1900.8 | 1733.8 | 1531.9 | 1333.2 | 926.4 | 131.3 | 26.2 |
| 24° | 2539.1 | 2510.7 | 2427.8 | 2302.1 | 2128.3 | 1936.3 | 1708.2 | 1477.7 | 1010.8 | 130.1 | 27.4 |
| 25° | 2793.9 | 2754.5 | 2667.0 | 2527.7 | 2336.9 | 2121.5 | 1870.0 | 1602.5 | 1085.1 | 126.4 | 23.1 |
| 26° | 3021.4 | 2976.4 | 2882.1 | 2730.1 | 2521.5 | 2288.2 | 2005.0 | 1718.4 | 1139.9 | 123.3 | 21.9 |
| 27° | 3218.9 | 3162.2 | 3061.4 | 2902.1 | 2678.4 | 2420.7 | 2120.3 | 1809.0 | 1188.3 | 118.6 | 17.6 |
| 28° | 3372.7 | 3307.7 | 3205.4 | 3037.1 | 2800.7 | 2524.0 | 2205.0 | 1865.7 | 1217.0 | 119.3 | 20.0 |
| 29° | 3461.4 | 3411.5 | 3300.3 | 3124.0 | 2875.3 | 2583.5 | 2249.7 | 1897.1 | 1222.5 | 110.0 | 18.8 |
| 30° | 3517.8 | 3462.1 | 3347.7 | 3163.4 | 2904.0 | 2597.0 | 2255.2 | 1891.3 | 1206.2 | 103.2 | 17.6 |
| 31° | 3521.5 | 3463.3 | 3347.1 | 3156.4 | 2892.9 | 2574.5 | 2224.4 | 1856.5 | 1170.8 | 96.2 | 14.5 |
| 32° | 3455.3 | 3410.3 | 3296.0 | 3099.0 | 2832.8 | 2512.6 | 2158.2 | 1797.6 | 1115.0 | 82.0 | 9.9 |
| 33° | 3380.4 | 3325.8 | 3212.1 | 3013.4 | 2749.6 | 2427.8 | 2062.6 | 1718.4 | 1057.0 | 80.7 | 12.6 |
| 34° | 3263.9 | 3198.3 | 3086.4 | 2890.7 | 2634.0 | 2307.0 | 1948.9 | 1612.7 | 983.1 | 73.7 | 12.0 |
| 35° | 3070.4 | 3035.2 | 2922.1 | 2728.9 | 2479.6 | 2162.2 | 1812.1 | 1496.5 | 904.5 | 65.6 | 8.6 |
| 36° | 2876.5 | 2833.4 | 2726.4 | 2539.7 | 2303.3 | 1989.6 | 1657.7 | 1364.0 | 815.7 | 55.8 | 6.8 |
| 37° | 2671.6 | 2615.2 | 2517.8 | 2335.1 | 2088.2 | 1817.6 | 1509.5 | 1237.6 | 743.3 | 58.9 | 9.2 |
| 38° | 2432.8 | 2414.0 | 2285.8 | 2115.6 | 1887.6 | 1632.1 | 1350.1 | 1104.5 | 663.2 | 54.9 | 15.1 |
| 39° | 2170.2 | 2157.5 | 2029.7 | 1874.6 | 1670.0 | 1435.2 | 1187.1 | 966.4 | 583.1 | 40.1 | 4.9 |
| 40° | 1912.5 | 1876.5 | 1785.9 | 1645.1 | 1466.9 | 1255.8 | 1041.3 | 848.7 | 513.7 | 39.4 | 9.9 |
| 42.5° | 1296.2 | 1307.6 | 1209.6 | 1108.8 | 994.5 | 851.2 | 708.2 | 581.8 | 359.3 | 29.3 | 6.2 |
| 45° | 832.7 | 835.2 | 791.4 | 713.1 | 638.2 | 548.9 | 454.6 | 378.7 | 231.7 | 16.3 | 1.8 |
| 47.5° | 530.1 | 528.8 | 500.8 | 455.8 | 406.8 | 354.4 | 295.5 | 247.5 | 150.1 | 12.6 | 5.5 |
| 50° | 333.8 | 332.5 | 315.0 | 286.3 | 258.9 | 224.4 | 187.4 | 159.3 | 94.9 | 15.1 | 6.2 |
| 51° | 271.2 | 273.0 | 258.3 | 229.3 | 208.0 | 175.0 | 149.5 | 127.0 | 74.3 | 10.5 | 5.5 |
| 52° | 223.7 | 222.5 | 213.3 | 188.9 | 171.3 | 143.0 | 121.7 | 103.9 | 61.9 | 9.2 | 2.5 |
| 53° | 180.0 | 180.6 | 171.3 | 152.5 | 135.6 | 114.3 | 97.4 | 80.7 | 44.4 | 6.8 | 1.8 |
| 54° | 142.4 | 141.1 | 138.1 | 119.9 | 109.4 | 90.6 | 76.1 | 61.9 | 38.2 | 1.2 | 0.0 |
| 55° | 121.1 | 119.3 | 115.0 | 99.2 | 88.8 | 74.9 | 60.7 | 53.0 | 33.0 | 3.1 | 0.0 |
| 57.5° | 70.0 | 70.0 | 67.5 | 58.9 | 51.8 | 46.2 | 37.0 | 34.5 | 16.9 | 3.1 | 0.0 |
| 60° | 43.8 | 38.2 | 42.5 | 36.4 | 28.7 | 25.6 | 21.3 | 19.4 | 14.5 | 5.5 | 1.2 |
| 61° | 36.4 | 29.3 | 28.7 | 26.8 | 25.0 | 16.9 | 14.5 | 15.7 | 9.2 | 1.8 | 1.2 |
| 62° | 26.2 | 23.1 | 25.0 | 21.3 | 18.8 | 13.3 | 12.0 | 11.4 | 5.5 | 2.5 | 3.1 |
| 63° | 23.7 | 21.3 | 20.6 | 15.7 | 13.9 | 13.9 | 10.5 | 9.9 | 6.8 | 4.9 | 2.5 |



TEST NUMBER: P315253

CATALOG NUMBER: LDA2B05FL9030D010 PIN1MB

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|------|------|-----|------|-----|-------|-----|-------|-------|-----|-------|
| 66° | 12.6 | 10.5 | 9.2 | 10.5 | 6.2 | 8.0 | 3.1 | 8.6 | 1.8 | 3.1 | 1.8 |
| 67.5° | 9.9 | 6.2 | 5.5 | 6.8 | 4.3 | 3.1 | 4.3 | 5.5 | 1.8 | 3.1 | 4.3 |
| 70° | 8.6 | 4.3 | 6.2 | 5.5 | 4.3 | 5.5 | 6.2 | 6.2 | 1.8 | 6.2 | 5.5 |
| 72.5° | 8.6 | 5.5 | 3.1 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 3.7 | 8.6 | 6.8 |
| 75° | 3.7 | 3.7 | 1.8 | 4.3 | 2.5 | 3.7 | 2.5 | 6.2 | 2.5 | 6.8 | 5.5 |
| 77.5° | 2.5 | 3.1 | 0.0 | 3.1 | 0.0 | 0.0 | 1.8 | 4.3 | 1.8 | 4.9 | 6.2 |
| 80° | 0.0 | 3.1 | 1.8 | 0.0 | 1.2 | 1.8 | 0.0 | 0.6 | 1.2 | 5.5 | 2.5 |
| 82.5° | 1.2 | 1.8 | 2.5 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 3.1 |
| 85° | 1.2 | 2.5 | 0.0 | 0.6 | 2.5 | 1.2 | 0.6 | 3.1 | 1.2 | 4.3 | 4.9 |
| 87.5° | 0.0 | 1.2 | 1.2 | 0.0 | 1.8 | 0.0 | 1.8 | 1.2 | 0.0 | 3.7 | 1.8 |
| 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: P315253

CATALOG NUMBER: LDA2B05FL9030D010 PIN1MB

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0° | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 |
| 2.5° | 18.8 | 16.9 | 14.5 | 18.2 | 15.1 |
| 5° | 22.5 | 20.6 | 16.3 | 19.4 | 17.6 |
| 7.5° | 23.1 | 19.4 | 16.9 | 15.7 | 17.6 |
| 10° | 13.9 | 9.2 | 6.8 | 9.2 | 4.9 |
| 12.5° | 23.1 | 16.3 | 15.1 | 16.9 | 18.8 |
| 15° | 17.6 | 10.5 | 10.5 | 8.0 | 11.4 |
| 17.5° | 9.9 | 8.0 | 7.4 | 9.9 | 11.4 |
| 20° | 10.5 | 6.8 | 5.5 | 9.2 | 8.6 |
| 21° | 9.2 | 2.5 | 7.4 | 7.4 | 8.6 |
| 22° | 13.3 | 6.2 | 7.4 | 12.0 | 12.6 |
| 23° | 8.6 | 6.8 | 5.5 | 7.4 | 9.9 |
| 24° | 12.6 | 7.4 | 6.8 | 9.2 | 13.9 |
| 25° | 8.6 | 6.8 | 6.8 | 8.6 | 7.4 |
| 26° | 4.9 | 6.8 | 4.9 | 7.4 | 6.2 |
| 27° | 3.7 | 6.2 | 3.7 | 5.5 | 7.4 |
| 28° | 8.0 | 9.9 | 9.2 | 9.9 | 8.6 |
| 29° | 8.6 | 10.5 | 8.6 | 13.3 | 9.9 |
| 30° | 4.9 | 9.2 | 4.3 | 9.9 | 8.6 |
| 31° | 4.9 | 6.8 | 3.1 | 9.9 | 8.6 |
| 32° | 0.6 | 3.7 | 1.8 | 3.7 | 3.7 |
| 33° | 3.7 | 4.3 | 4.9 | 8.0 | 6.2 |
| 34° | 6.2 | 7.4 | 4.9 | 8.6 | 7.4 |
| 35° | 6.8 | 3.7 | 5.5 | 9.2 | 9.9 |
| 36° | 1.8 | 1.8 | 3.1 | 7.4 | 2.5 |
| 37° | 3.7 | 10.5 | 7.4 | 12.6 | 7.4 |
| 38° | 6.2 | 12.6 | 12.0 | 15.7 | 12.6 |
| 39° | 1.2 | 3.7 | 4.3 | 8.6 | 8.6 |
| 40° | 5.5 | 9.2 | 6.8 | 12.6 | 12.6 |
| 42.5° | 4.3 | 6.8 | 4.9 | 10.5 | 8.6 |
| 45° | 1.8 | 1.8 | 1.2 | 6.8 | 4.9 |
| 47.5° | 3.1 | 3.1 | 5.5 | 8.6 | 15.1 |
| 50° | 6.2 | 6.2 | 8.0 | 14.5 | 13.9 |
| 51° | 3.7 | 3.1 | 4.3 | 9.9 | 12.6 |
| 52° | 3.1 | 4.3 | 4.3 | 9.9 | 9.9 |
| 53° | 1.2 | 0.0 | 0.0 | 7.4 | 6.2 |
| 54° | 1.2 | 0.6 | 1.8 | 5.5 | 8.6 |
| 55° | 0.0 | 3.1 | 2.5 | 11.4 | 12.6 |
| 57.5° | 0.6 | 4.9 | 2.5 | 8.0 | 9.9 |
| 60° | 3.1 | 3.7 | 6.8 | 8.0 | 9.9 |
| 61° | 0.0 | 3.1 | 3.1 | 7.4 | 8.6 |
| 62° | 0.0 | 2.5 | 5.5 | 6.8 | 8.6 |
| 63° | 3.1 | 3.7 | 4.9 | 8.0 | 9.9 |



TEST NUMBER: P315253

CATALOG NUMBER: LDA2B05FL9030D010 PIN1MB

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 66° | 1.8 | 4.9 | 6.2 | 8.0 | 7.4 |
| 67.5° | 3.7 | 4.3 | 3.7 | 10.5 | 12.6 |
| 70° | 4.9 | 8.0 | 8.6 | 7.4 | 12.6 |
| 72.5° | 3.1 | 4.3 | 6.2 | 11.4 | 12.6 |
| 75° | 5.5 | 6.2 | 9.2 | 10.5 | 12.6 |
| 77.5° | 4.3 | 6.2 | 6.2 | 6.8 | 12.6 |
| 80° | 1.8 | 5.5 | 6.2 | 6.8 | 3.7 |
| 82.5° | 2.5 | 3.7 | 2.5 | 6.8 | 4.9 |
| 85° | 1.2 | 5.5 | 4.9 | 6.2 | 6.2 |
| 87.5° | 1.8 | 3.1 | 3.1 | 5.5 | 3.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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







| | | | | | | | | | | | |
|-----|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 64° | 13.9 | 14.5 | 13.9 | 9.9 | 7.4 | 6.8 | 4.9 | 8.6 | 2.5 | 2.5 | 0.0 |
| 65° | 12.6 | 13.9 | 10.5 | 12.0 | 8.0 | 7.4 | 4.3 | 8.6 | 1.2 | 4.3 | 3.1 |





| | | | | | |
|-----|-----|-----|-----|-----|-----|
| 64° | 1.8 | 3.1 | 3.1 | 5.5 | 8.6 |
| 65° | 3.1 | 4.3 | 4.3 | 8.0 | 6.2 |



(END OF REPORT)