

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: P315220

Luminaire Tested: **LDA2B05FL8035D010 PINW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315220
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: LDA2B05FL8035D010 PINW1MW
Description: PORTFOLIO 2IN ADJ 500 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: 668.7 lumens
Efficiency: N/A
Efficacy: 95.5 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

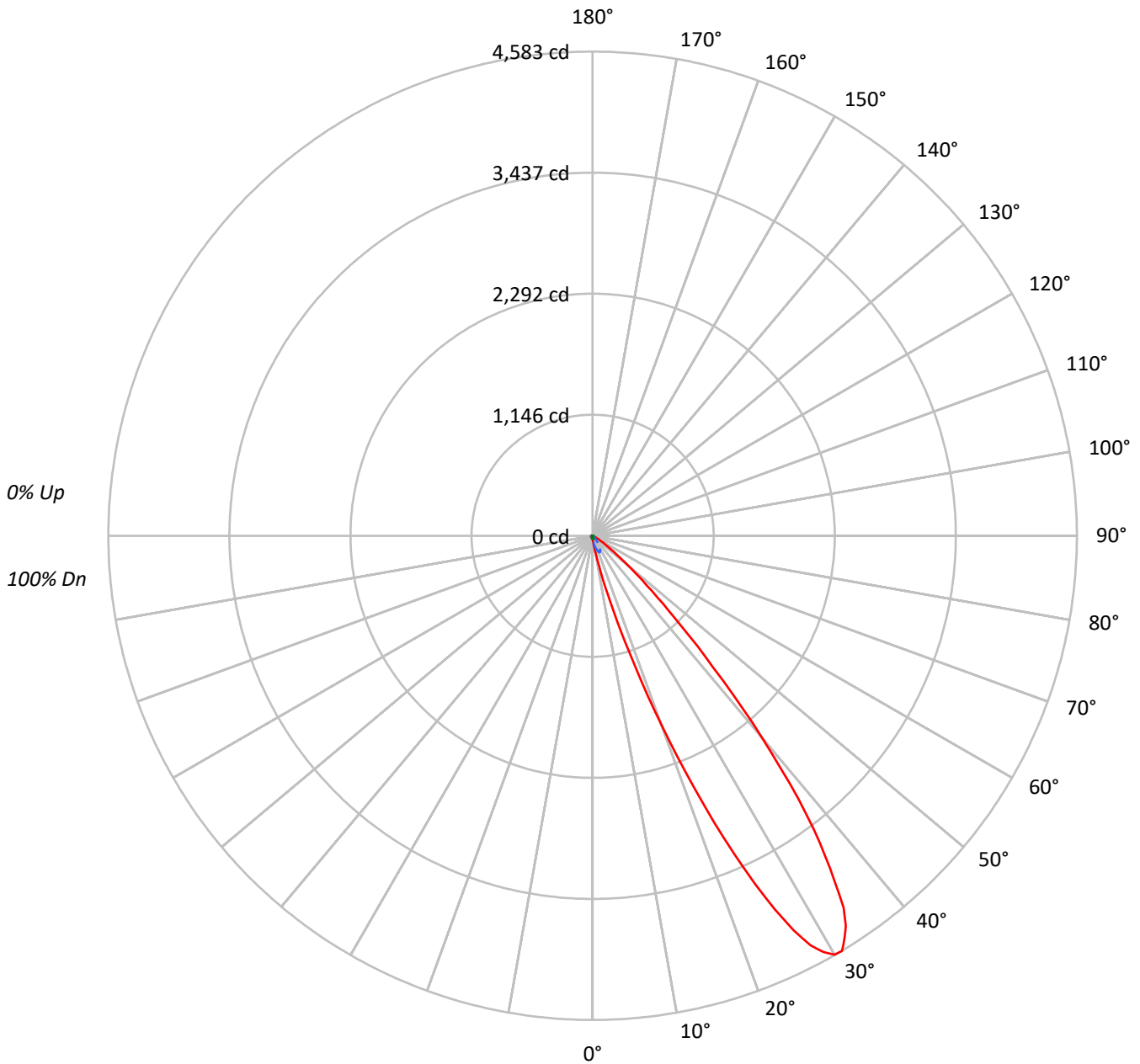
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P315220

CATALOG NUMBER: LDA2B05FL8035D010 PINW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P315220

CATALOG NUMBER: LDA2B05FL8035D010 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° | 14061 | 14061 | 14061 |
| 5° | 31399 | 14511 | 11341 |
| 10° | 84013 | 9018 | 3206 |
| 15° | 330670 | 11697 | 7559 |
| 20° | 1000277 | 7140 | 5880 |
| 25° | 1979473 | 6097 | 5226 |
| 30° | 2608246 | 3646 | 6380 |
| 35° | 2406785 | 5300 | 7709 |
| 40° | 1603140 | 4637 | 10562 |
| 45° | 756118 | 1675 | 4465 |
| 50° | 333417 | 6140 | 13816 |
| 55° | 135560 | 0 | 14106 |
| 60° | 56243 | 3947 | 12630 |
| 65° | 19145 | 4670 | 9339 |
| 70° | 16156 | 9232 | 23657 |
| 75° | 9150 | 13725 | 31262 |
| 80° | 0 | 6819 | 13638 |
| 85° | 9057 | 9057 | 45286 |



TEST NUMBER: P315220

CATALOG NUMBER: LDA2B05FL8035D010 PINW1MW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.9 | 0.6 |
| 10°-20° | 40.9 | 6.1 |
| 20°-30° | 210.3 | 31.5 |
| 30°-40° | 269.3 | 40.3 |
| 40°-50° | 103.6 | 15.5 |
| 50°-60° | 21.0 | 3.1 |
| 60°-70° | 7.1 | 1.1 |
| 70°-80° | 8.3 | 1.2 |
| 80°-90° | 4.2 | 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° | 255.1 | 38.2 |
| 0°-40° | 524.5 | 78.4 |
| 0°-60° | 649.1 | 97.1 |
| 0°-90° | 668.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 668.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 28 | 28 | 28 | 28 | 28 | |
| 5° | 63 | 52 | 29 | 21 | 23 | 9 |
| 15° | 647 | 126 | 23 | 14 | 15 | 248 |
| 25° | 3636 | 164 | 11 | 9 | 10 | 1660 |
| 35° | 3996 | 85 | 9 | 7 | 13 | 2388 |
| 45° | 1084 | 21 | 2 | 2 | 6 | 932 |
| 55° | 158 | 4 | 0 | 3 | 16 | 163 |
| 65° | 16 | 6 | 4 | 6 | 8 | 23 |
| 75° | 5 | 9 | 7 | 12 | 16 | 7 |
| 85° | 2 | 6 | 2 | 6 | 8 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P315220

CATALOG NUMBER: LDA2B05FL8035D010 PINW1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 |
| 2.5° | 42.1 | 36.5 | 38.1 | 32.5 | 35.7 | 36.5 | 30.1 | 39.7 | 35.7 | 37.3 | 32.5 |
| 5° | 63.4 | 68.2 | 62.6 | 60.2 | 58.6 | 60.2 | 58.6 | 61.0 | 59.4 | 52.1 | 37.3 |
| 7.5° | 105.9 | 96.7 | 96.7 | 93.5 | 95.9 | 95.1 | 91.0 | 93.5 | 87.8 | 63.4 | 42.9 |
| 10° | 167.7 | 158.4 | 157.6 | 155.2 | 154.4 | 147.2 | 143.2 | 140.0 | 128.3 | 75.0 | 38.9 |
| 12.5° | 328.5 | 320.5 | 314.9 | 300.8 | 291.2 | 285.6 | 264.3 | 253.1 | 219.8 | 111.5 | 49.7 |
| 15° | 647.4 | 606.0 | 616.5 | 571.2 | 537.9 | 515.8 | 471.7 | 432.8 | 353.0 | 125.9 | 48.1 |
| 17.5° | 1145.5 | 1105.4 | 1078.5 | 1029.2 | 961.4 | 902.9 | 815.8 | 729.6 | 567.1 | 143.2 | 44.9 |
| 20° | 1905.2 | 1841.8 | 1785.7 | 1701.0 | 1570.7 | 1458.0 | 1304.7 | 1139.9 | 844.3 | 163.6 | 40.5 |
| 21° | 2238.9 | 2189.9 | 2125.0 | 2013.5 | 1861.5 | 1710.6 | 1526.9 | 1328.4 | 962.2 | 165.2 | 36.5 |
| 22° | 2587.0 | 2555.3 | 2469.9 | 2342.0 | 2164.7 | 1985.0 | 1759.6 | 1541.4 | 1087.8 | 167.7 | 34.9 |
| 23° | 2949.6 | 2916.3 | 2819.7 | 2673.3 | 2473.9 | 2256.5 | 1993.8 | 1735.1 | 1205.7 | 170.9 | 34.1 |
| 24° | 3304.6 | 3267.7 | 3159.8 | 2996.1 | 2769.9 | 2520.0 | 2223.2 | 1923.2 | 1315.6 | 169.3 | 35.7 |
| 25° | 3636.3 | 3584.9 | 3471.0 | 3289.7 | 3041.5 | 2761.1 | 2433.8 | 2085.7 | 1412.2 | 164.4 | 30.1 |
| 26° | 3932.3 | 3873.7 | 3751.0 | 3553.3 | 3281.7 | 2978.1 | 2609.5 | 2236.5 | 1483.6 | 160.4 | 28.5 |
| 27° | 4189.4 | 4115.6 | 3984.4 | 3777.1 | 3485.9 | 3150.6 | 2759.5 | 2354.4 | 1546.6 | 154.4 | 22.9 |
| 28° | 4389.5 | 4304.9 | 4171.7 | 3952.7 | 3645.1 | 3284.9 | 2869.8 | 2428.2 | 1583.9 | 155.2 | 26.1 |
| 29° | 4505.0 | 4440.1 | 4295.3 | 4065.8 | 3742.2 | 3362.3 | 2928.0 | 2469.1 | 1591.1 | 143.2 | 24.5 |
| 30° | 4578.4 | 4505.8 | 4357.0 | 4117.2 | 3779.5 | 3380.0 | 2935.2 | 2461.5 | 1569.9 | 134.4 | 22.9 |
| 31° | 4583.3 | 4507.4 | 4356.2 | 4108.0 | 3765.0 | 3350.7 | 2895.1 | 2416.2 | 1523.7 | 125.1 | 18.9 |
| 32° | 4497.0 | 4438.5 | 4289.7 | 4033.4 | 3686.8 | 3270.1 | 2808.8 | 2339.6 | 1451.1 | 106.7 | 12.8 |
| 33° | 4399.6 | 4328.6 | 4180.6 | 3921.9 | 3578.5 | 3159.8 | 2684.5 | 2236.5 | 1375.7 | 105.1 | 16.4 |
| 34° | 4247.9 | 4162.5 | 4016.9 | 3762.2 | 3428.1 | 3002.6 | 2536.5 | 2098.9 | 1279.5 | 95.9 | 15.6 |
| 35° | 3996.1 | 3950.3 | 3803.1 | 3551.6 | 3227.2 | 2814.0 | 2358.4 | 1947.7 | 1177.2 | 85.4 | 11.2 |
| 36° | 3743.8 | 3687.6 | 3548.4 | 3305.4 | 2997.7 | 2589.4 | 2157.5 | 1775.2 | 1061.7 | 72.6 | 8.8 |
| 37° | 3477.0 | 3403.6 | 3276.9 | 3039.1 | 2717.8 | 2365.6 | 1964.5 | 1610.8 | 967.4 | 76.6 | 12.0 |
| 38° | 3166.2 | 3141.7 | 2974.9 | 2753.5 | 2456.7 | 2124.2 | 1757.2 | 1437.5 | 863.1 | 71.4 | 19.7 |
| 39° | 2824.5 | 2808.0 | 2641.6 | 2439.8 | 2173.5 | 1867.9 | 1545.0 | 1257.8 | 758.9 | 52.1 | 6.4 |
| 40° | 2489.2 | 2442.2 | 2324.3 | 2141.0 | 1909.2 | 1634.4 | 1355.3 | 1104.6 | 668.6 | 51.3 | 12.8 |
| 42.5° | 1687.0 | 1701.8 | 1574.3 | 1443.1 | 1294.3 | 1107.8 | 921.7 | 757.3 | 467.7 | 38.1 | 8.0 |
| 45° | 1083.7 | 1087.0 | 1030.0 | 928.1 | 830.7 | 714.3 | 591.6 | 492.9 | 301.6 | 21.3 | 2.4 |
| 47.5° | 689.9 | 688.3 | 651.8 | 593.2 | 529.4 | 461.3 | 384.6 | 322.1 | 195.3 | 16.4 | 7.2 |
| 50° | 434.4 | 432.8 | 409.9 | 372.6 | 336.9 | 292.0 | 243.9 | 207.4 | 123.5 | 19.7 | 8.0 |
| 51° | 353.0 | 355.4 | 336.1 | 298.4 | 270.7 | 227.8 | 194.5 | 165.2 | 96.7 | 13.6 | 7.2 |
| 52° | 291.2 | 289.6 | 277.6 | 245.9 | 223.0 | 186.1 | 158.4 | 135.2 | 80.6 | 12.0 | 3.2 |
| 53° | 234.2 | 235.0 | 223.0 | 198.5 | 176.5 | 148.8 | 126.7 | 105.1 | 57.8 | 8.8 | 2.4 |
| 54° | 185.3 | 183.7 | 179.7 | 156.0 | 142.4 | 117.9 | 99.1 | 80.6 | 49.7 | 1.6 | 0.0 |
| 55° | 157.6 | 155.2 | 149.6 | 129.2 | 115.5 | 97.5 | 79.0 | 69.0 | 42.9 | 4.0 | 0.0 |
| 57.5° | 91.0 | 91.0 | 87.8 | 76.6 | 67.4 | 60.2 | 48.1 | 44.9 | 22.1 | 4.0 | 0.0 |
| 60° | 57.0 | 49.7 | 55.4 | 47.3 | 37.3 | 33.3 | 27.7 | 25.3 | 18.9 | 7.2 | 1.6 |
| 61° | 47.3 | 38.1 | 37.3 | 34.9 | 32.5 | 22.1 | 18.9 | 20.5 | 12.0 | 2.4 | 1.6 |
| 62° | 34.1 | 30.1 | 32.5 | 27.7 | 24.5 | 17.2 | 15.6 | 14.8 | 7.2 | 3.2 | 4.0 |
| 63° | 30.9 | 27.7 | 26.9 | 20.5 | 18.0 | 18.0 | 13.6 | 12.8 | 8.8 | 6.4 | 3.2 |



TEST NUMBER: P315220

CATALOG NUMBER: LDA2B05FL8035D010 PINW1MW

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|------|------|------|------|-----|-------|-----|-------|-------|------|-------|
| 66° | 16.4 | 13.6 | 12.0 | 13.6 | 8.0 | 10.4 | 4.0 | 11.2 | 2.4 | 4.0 | 2.4 |
| 67.5° | 12.8 | 8.0 | 7.2 | 8.8 | 5.6 | 4.0 | 5.6 | 7.2 | 2.4 | 4.0 | 5.6 |
| 70° | 11.2 | 5.6 | 8.0 | 7.2 | 5.6 | 7.2 | 8.0 | 8.0 | 2.4 | 8.0 | 7.2 |
| 72.5° | 11.2 | 7.2 | 4.0 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 4.8 | 11.2 | 8.8 |
| 75° | 4.8 | 4.8 | 2.4 | 5.6 | 3.2 | 4.8 | 3.2 | 8.0 | 3.2 | 8.8 | 7.2 |
| 77.5° | 3.2 | 4.0 | 0.0 | 4.0 | 0.0 | 0.0 | 2.4 | 5.6 | 2.4 | 6.4 | 8.0 |
| 80° | 0.0 | 4.0 | 2.4 | 0.0 | 1.6 | 2.4 | 0.0 | 0.8 | 1.6 | 7.2 | 3.2 |
| 82.5° | 1.6 | 2.4 | 3.2 | 1.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 4.0 |
| 85° | 1.6 | 3.2 | 0.0 | 0.8 | 3.2 | 1.6 | 0.8 | 4.0 | 1.6 | 5.6 | 6.4 |
| 87.5° | 0.0 | 1.6 | 1.6 | 0.0 | 2.4 | 0.0 | 2.4 | 1.6 | 0.0 | 4.8 | 2.4 |
| 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: P315220

CATALOG NUMBER: LDA2B05FL8035D010 PINW1MW

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0° | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 |
| 2.5° | 24.5 | 22.1 | 18.9 | 23.7 | 19.7 |
| 5° | 29.3 | 26.9 | 21.3 | 25.3 | 22.9 |
| 7.5° | 30.1 | 25.3 | 22.1 | 20.5 | 22.9 |
| 10° | 18.0 | 12.0 | 8.8 | 12.0 | 6.4 |
| 12.5° | 30.1 | 21.3 | 19.7 | 22.1 | 24.5 |
| 15° | 22.9 | 13.6 | 13.6 | 10.4 | 14.8 |
| 17.5° | 12.8 | 10.4 | 9.6 | 12.8 | 14.8 |
| 20° | 13.6 | 8.8 | 7.2 | 12.0 | 11.2 |
| 21° | 12.0 | 3.2 | 9.6 | 9.6 | 11.2 |
| 22° | 17.2 | 8.0 | 9.6 | 15.6 | 16.4 |
| 23° | 11.2 | 8.8 | 7.2 | 9.6 | 12.8 |
| 24° | 16.4 | 9.6 | 8.8 | 12.0 | 18.0 |
| 25° | 11.2 | 8.8 | 8.8 | 11.2 | 9.6 |
| 26° | 6.4 | 8.8 | 6.4 | 9.6 | 8.0 |
| 27° | 4.8 | 8.0 | 4.8 | 7.2 | 9.6 |
| 28° | 10.4 | 12.8 | 12.0 | 12.8 | 11.2 |
| 29° | 11.2 | 13.6 | 11.2 | 17.2 | 12.8 |
| 30° | 6.4 | 12.0 | 5.6 | 12.8 | 11.2 |
| 31° | 6.4 | 8.8 | 4.0 | 12.8 | 11.2 |
| 32° | 0.8 | 4.8 | 2.4 | 4.8 | 4.8 |
| 33° | 4.8 | 5.6 | 6.4 | 10.4 | 8.0 |
| 34° | 8.0 | 9.6 | 6.4 | 11.2 | 9.6 |
| 35° | 8.8 | 4.8 | 7.2 | 12.0 | 12.8 |
| 36° | 2.4 | 2.4 | 4.0 | 9.6 | 3.2 |
| 37° | 4.8 | 13.6 | 9.6 | 16.4 | 9.6 |
| 38° | 8.0 | 16.4 | 15.6 | 20.5 | 16.4 |
| 39° | 1.6 | 4.8 | 5.6 | 11.2 | 11.2 |
| 40° | 7.2 | 12.0 | 8.8 | 16.4 | 16.4 |
| 42.5° | 5.6 | 8.8 | 6.4 | 13.6 | 11.2 |
| 45° | 2.4 | 2.4 | 1.6 | 8.8 | 6.4 |
| 47.5° | 4.0 | 4.0 | 7.2 | 11.2 | 19.7 |
| 50° | 8.0 | 8.0 | 10.4 | 18.9 | 18.0 |
| 51° | 4.8 | 4.0 | 5.6 | 12.8 | 16.4 |
| 52° | 4.0 | 5.6 | 5.6 | 12.8 | 12.8 |
| 53° | 1.6 | 0.0 | 0.0 | 9.6 | 8.0 |
| 54° | 1.6 | 0.8 | 2.4 | 7.2 | 11.2 |
| 55° | 0.0 | 4.0 | 3.2 | 14.8 | 16.4 |
| 57.5° | 0.8 | 6.4 | 3.2 | 10.4 | 12.8 |
| 60° | 4.0 | 4.8 | 8.8 | 10.4 | 12.8 |
| 61° | 0.0 | 4.0 | 4.0 | 9.6 | 11.2 |
| 62° | 0.0 | 3.2 | 7.2 | 8.8 | 11.2 |
| 63° | 4.0 | 4.8 | 6.4 | 10.4 | 12.8 |



TEST NUMBER: P315220

CATALOG NUMBER: LDA2B05FL8035D010 PINW1MW

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 66° | 2.4 | 6.4 | 8.0 | 10.4 | 9.6 |
| 67.5° | 4.8 | 5.6 | 4.8 | 13.6 | 16.4 |
| 70° | 6.4 | 10.4 | 11.2 | 9.6 | 16.4 |
| 72.5° | 4.0 | 5.6 | 8.0 | 14.8 | 16.4 |
| 75° | 7.2 | 8.0 | 12.0 | 13.6 | 16.4 |
| 77.5° | 5.6 | 8.0 | 8.0 | 8.8 | 16.4 |
| 80° | 2.4 | 7.2 | 8.0 | 8.8 | 4.8 |
| 82.5° | 3.2 | 4.8 | 3.2 | 8.8 | 6.4 |
| 85° | 1.6 | 7.2 | 6.4 | 8.0 | 8.0 |
| 87.5° | 2.4 | 4.0 | 4.0 | 7.2 | 4.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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







| | | | | | | | | | | | |
|-----|------|------|------|------|------|-----|-----|------|-----|-----|-----|
| 64° | 18.0 | 18.9 | 18.0 | 12.8 | 9.6 | 8.8 | 6.4 | 11.2 | 3.2 | 3.2 | 0.0 |
| 65° | 16.4 | 18.0 | 13.6 | 15.6 | 10.4 | 9.6 | 5.6 | 11.2 | 1.6 | 5.6 | 4.0 |





| | | | | | |
|-----|-----|-----|-----|------|------|
| 64° | 2.4 | 4.0 | 4.0 | 7.2 | 11.2 |
| 65° | 4.0 | 5.6 | 5.6 | 10.4 | 8.0 |



(END OF REPORT)