

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: P315463

Luminaire Tested: **LDA2B20FL8027D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315463  
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: LDA2B20FL8027D010 PIN1MB  
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj PinHole, Black oculus black finish  
Light Source: -  
Ballast/Driver: -

**Summary**

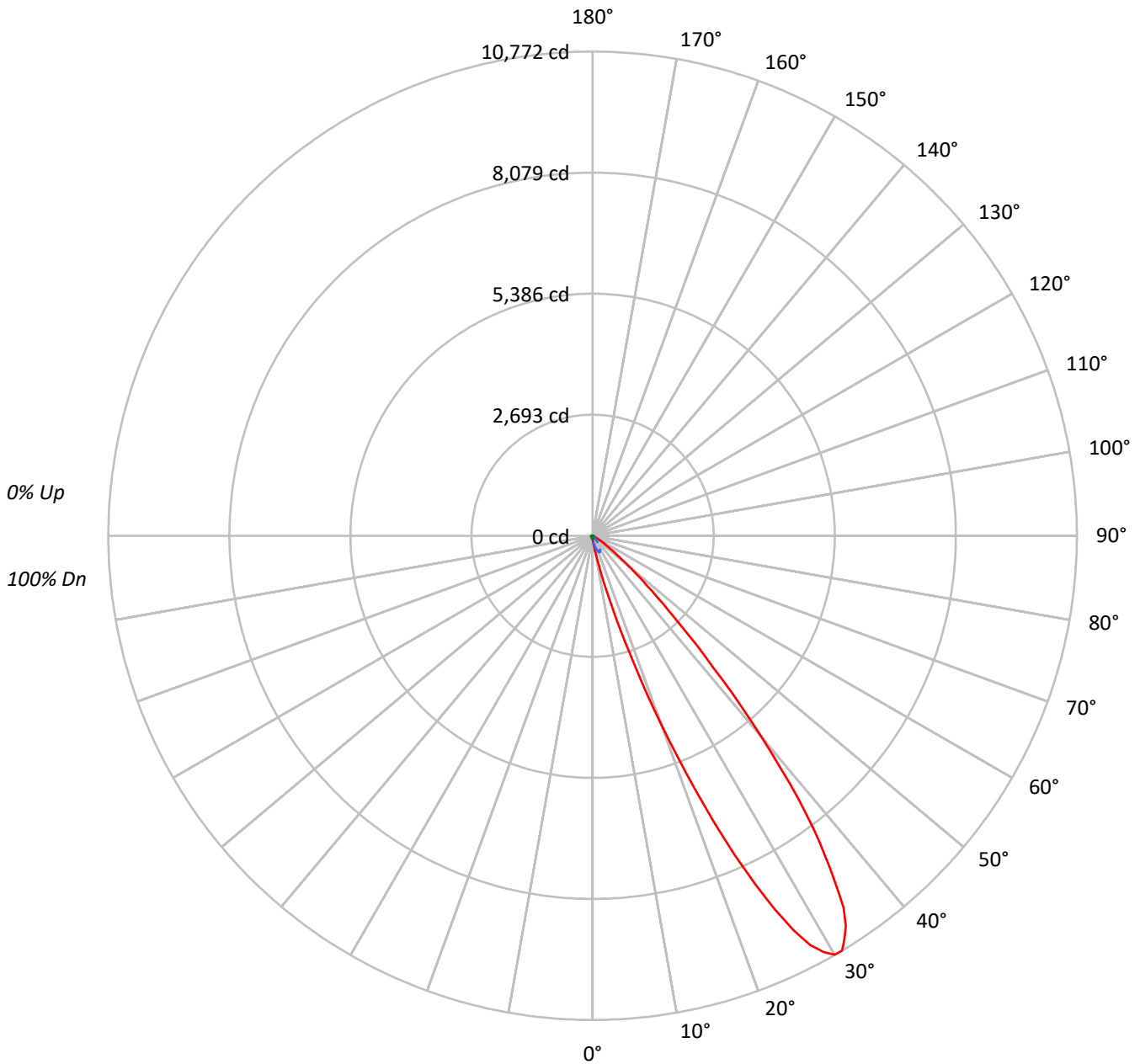
Lumens per Lamp: N/A  
Luminaire Lumens: 1571.9 lumens  
Efficiency: N/A  
Efficacy: 76.3 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.6 / 1.34  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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### Luminous Intensity Polar Plot





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**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°  | 33006   | 33006 | 33006  |
| 5°  | 73742   | 34073 | 26595  |
| 10° | 197383  | 21241 | 7565   |
| 15° | 777130  | 27428 | 17826  |
| 20° | 2350903 | 16853 | 13861  |
| 25° | 4652302 | 14371 | 12303  |
| 30° | 6130211 | 8602  | 15040  |
| 35° | 5656587 | 12467 | 18189  |
| 40° | 3767816 | 10949 | 24860  |
| 45° | 1777160 | 3977  | 10536  |
| 50° | 783576  | 14506 | 32543  |
| 55° | 318686  | 0     | 33202  |
| 60° | 132122  | 9275  | 29799  |
| 65° | 45061   | 10973 | 22064  |
| 70° | 38082   | 21782 | 55680  |
| 75° | 21540   | 32405 | 73579  |
| 80° | 0       | 16195 | 32105  |
| 85° | 21511   | 21511 | 106987 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.1    | 0.6       |
| 10°-20°   | 96.2   | 6.1       |
| 20°-30°   | 494.4  | 31.5      |
| 30°-40°   | 633.1  | 40.3      |
| 40°-50°   | 243.4  | 15.5      |
| 50°-60°   | 49.5   | 3.1       |
| 60°-70°   | 16.8   | 1.1       |
| 70°-80°   | 19.5   | 1.2       |
| 80°-90°   | 10.0   | 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°    | 599.7  | 38.1      |
| 0°-40°    | 1232.7 | 78.4      |
| 0°-60°    | 1525.7 | 97.1      |
| 0°-90°    | 1571.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1571.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 67   | 67  | 67  | 67   | 67   |      |
| 5°  | 149  | 122 | 69  | 50   | 54   | 22   |
| 15° | 1522 | 296 | 54  | 32   | 35   | 583  |
| 25° | 8546 | 386 | 26  | 21   | 23   | 3901 |
| 35° | 9392 | 201 | 21  | 17   | 30   | 5613 |
| 45° | 2547 | 50  | 6   | 4    | 15   | 2189 |
| 55° | 370  | 9   | 0   | 8    | 39   | 384  |
| 65° | 39   | 13  | 9   | 13   | 19   | 54   |
| 75° | 11   | 21  | 17  | 28   | 39   | 15   |
| 85° | 4    | 13  | 4   | 15   | 19   | 2    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 2.5°    | 5°      | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 22.5°  | 45°   | 67.5° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 66.9    | 66.9    | 66.9    | 66.9   | 66.9   | 66.9   | 66.9   | 66.9   | 66.9   | 66.9  | 66.9  |
| 2.5°  | 99.0    | 85.8    | 89.6    | 76.4   | 83.9   | 85.8   | 70.7   | 93.3   | 83.9   | 87.7  | 76.4  |
| 5°    | 148.9   | 160.3   | 147.1   | 141.4  | 137.6  | 141.4  | 137.6  | 143.3  | 139.5  | 122.5 | 87.7  |
| 7.5°  | 248.9   | 227.2   | 227.2   | 219.6  | 225.3  | 223.4  | 214.0  | 219.6  | 206.4  | 148.9 | 100.9 |
| 10°   | 394.0   | 372.4   | 370.5   | 364.8  | 362.9  | 346.0  | 336.5  | 329.0  | 301.7  | 176.3 | 91.4  |
| 12.5° | 772.1   | 753.2   | 740.0   | 707.0  | 684.4  | 671.2  | 621.2  | 594.8  | 516.6  | 262.1 | 116.9 |
| 15°   | 1521.5  | 1424.4  | 1448.9  | 1342.4 | 1264.1 | 1212.3 | 1108.6 | 1017.1 | 829.6  | 296.0 | 113.1 |
| 17.5° | 2692.3  | 2598.0  | 2534.9  | 2418.9 | 2259.6 | 2122.0 | 1917.4 | 1714.7 | 1332.9 | 336.5 | 105.6 |
| 20°   | 4477.7  | 4328.8  | 4196.8  | 3997.9 | 3691.5 | 3426.6 | 3066.5 | 2679.1 | 1984.3 | 384.6 | 95.2  |
| 21°   | 5262.0  | 5147.0  | 4994.3  | 4732.2 | 4375.0 | 4020.5 | 3588.8 | 3122.1 | 2261.5 | 388.4 | 85.8  |
| 22°   | 6080.3  | 6005.8  | 5805.0  | 5504.3 | 5087.6 | 4665.3 | 4135.5 | 3622.7 | 2556.5 | 394.0 | 82.0  |
| 23°   | 6932.4  | 6854.2  | 6627.0  | 6282.9 | 5814.4 | 5303.5 | 4686.0 | 4078.0 | 2833.7 | 401.6 | 80.1  |
| 24°   | 7766.7  | 7680.0  | 7426.4  | 7041.8 | 6510.1 | 5922.8 | 5225.3 | 4520.1 | 3092.0 | 397.8 | 83.9  |
| 25°   | 8546.3  | 8425.6  | 8157.9  | 7731.8 | 7148.3 | 6489.4 | 5720.2 | 4901.9 | 3319.2 | 386.5 | 70.7  |
| 26°   | 9242.0  | 9104.4  | 8815.9  | 8351.2 | 7713.0 | 6999.4 | 6133.1 | 5256.4 | 3487.0 | 377.1 | 66.9  |
| 27°   | 9846.3  | 9672.8  | 9364.6  | 8877.2 | 8192.8 | 7404.7 | 6485.6 | 5533.5 | 3635.0 | 362.9 | 53.7  |
| 28°   | 10316.7 | 10117.8 | 9804.8  | 9290.1 | 8567.1 | 7720.5 | 6744.9 | 5707.0 | 3722.6 | 364.8 | 61.3  |
| 29°   | 10588.2 | 10435.4 | 10095.1 | 9555.9 | 8795.2 | 7902.5 | 6881.5 | 5803.1 | 3739.6 | 336.5 | 57.5  |
| 30°   | 10760.7 | 10590.0 | 10240.3 | 9676.6 | 8882.8 | 7943.9 | 6898.5 | 5785.2 | 3689.6 | 315.8 | 53.7  |
| 31°   | 10772.0 | 10593.8 | 10238.4 | 9654.9 | 8848.9 | 7875.1 | 6804.2 | 5678.7 | 3581.2 | 294.1 | 44.3  |
| 32°   | 10569.3 | 10431.7 | 10081.9 | 9479.6 | 8665.1 | 7685.6 | 6601.6 | 5498.6 | 3410.6 | 250.8 | 30.2  |
| 33°   | 10340.2 | 10173.4 | 9825.5  | 9217.5 | 8410.6 | 7426.4 | 6309.3 | 5256.4 | 3233.4 | 247.0 | 38.6  |
| 34°   | 9983.9  | 9783.1  | 9440.9  | 8842.3 | 8057.1 | 7056.9 | 5961.5 | 4933.0 | 3007.1 | 225.3 | 36.8  |
| 35°   | 9391.9  | 9284.4  | 8938.5  | 8347.4 | 7584.8 | 6613.8 | 5542.9 | 4577.6 | 2766.8 | 200.8 | 26.4  |
| 36°   | 8799.0  | 8667.0  | 8339.9  | 7768.6 | 7045.6 | 6085.9 | 5070.7 | 4172.3 | 2495.3 | 170.6 | 20.7  |
| 37°   | 8172.1  | 7999.6  | 7701.7  | 7142.7 | 6387.6 | 5559.9 | 4617.2 | 3785.8 | 2273.7 | 180.1 | 28.3  |
| 38°   | 7441.5  | 7384.0  | 6991.8  | 6471.5 | 5773.9 | 4992.4 | 4129.9 | 3378.6 | 2028.6 | 167.8 | 46.2  |
| 39°   | 6638.3  | 6599.7  | 6208.5  | 5734.3 | 5108.4 | 4390.0 | 3631.2 | 2956.2 | 1783.5 | 122.5 | 15.1  |
| 40°   | 5850.3  | 5740.0  | 5462.8  | 5032.0 | 4487.1 | 3841.4 | 3185.3 | 2596.1 | 1571.4 | 120.7 | 30.2  |
| 42.5° | 3964.9  | 3999.8  | 3700.0  | 3391.8 | 3042.0 | 2603.7 | 2166.3 | 1779.8 | 1099.2 | 89.6  | 18.9  |
| 45°   | 2547.1  | 2554.7  | 2420.8  | 2181.4 | 1952.3 | 1678.9 | 1390.4 | 1158.6 | 708.9  | 50.0  | 5.7   |
| 47.5° | 1621.4  | 1617.6  | 1531.9  | 1394.2 | 1244.3 | 1084.1 | 904.0  | 757.0  | 459.1  | 38.6  | 17.0  |
| 50°   | 1020.9  | 1017.1  | 963.4   | 875.7  | 791.8  | 686.3  | 573.1  | 487.4  | 290.3  | 46.2  | 18.9  |
| 51°   | 829.6   | 835.2   | 790.0   | 701.4  | 636.3  | 535.4  | 457.2  | 388.4  | 227.2  | 32.1  | 17.0  |
| 52°   | 684.4   | 680.6   | 652.3   | 577.9  | 524.1  | 437.4  | 372.4  | 317.7  | 189.5  | 28.3  | 7.5   |
| 53°   | 550.5   | 552.4   | 524.1   | 466.6  | 414.8  | 349.7  | 297.9  | 247.0  | 135.7  | 20.7  | 5.7   |
| 54°   | 435.5   | 431.7   | 422.3   | 366.7  | 334.7  | 277.1  | 232.8  | 189.5  | 116.9  | 3.8   | 0.0   |
| 55°   | 370.5   | 364.8   | 351.6   | 303.5  | 271.5  | 229.1  | 185.7  | 162.1  | 100.9  | 9.4   | 0.0   |
| 57.5° | 214.0   | 214.0   | 206.4   | 180.1  | 158.4  | 141.4  | 113.1  | 105.6  | 51.8   | 9.4   | 0.0   |
| 60°   | 133.9   | 116.9   | 130.1   | 111.2  | 87.7   | 78.2   | 65.0   | 59.4   | 44.3   | 17.0  | 3.8   |
| 61°   | 111.2   | 89.6    | 87.7    | 82.0   | 76.4   | 51.8   | 44.3   | 48.1   | 28.3   | 5.7   | 3.8   |
| 62°   | 80.1    | 70.7    | 76.4    | 65.0   | 57.5   | 40.5   | 36.8   | 34.9   | 17.0   | 7.5   | 9.4   |
| 63°   | 72.6    | 65.0    | 63.2    | 48.1   | 42.4   | 42.4   | 32.1   | 30.2   | 20.7   | 15.1  | 7.5   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 2.5° | 5°   | 7.5° | 10°  | 12.5° | 15°  | 17.5° | 22.5° | 45°  | 67.5° |
|-------|------|------|------|------|------|-------|------|-------|-------|------|-------|
| 66°   | 38.6 | 32.1 | 28.3 | 32.1 | 18.9 | 24.5  | 9.4  | 26.4  | 5.7   | 9.4  | 5.7   |
| 67.5° | 30.2 | 18.9 | 17.0 | 20.7 | 13.2 | 9.4   | 13.2 | 17.0  | 5.7   | 9.4  | 13.2  |
| 70°   | 26.4 | 13.2 | 18.9 | 17.0 | 13.2 | 17.0  | 18.9 | 18.9  | 5.7   | 18.9 | 17.0  |
| 72.5° | 26.4 | 17.0 | 9.4  | 7.5  | 7.5  | 7.5   | 7.5  | 7.5   | 11.3  | 26.4 | 20.7  |
| 75°   | 11.3 | 11.3 | 5.7  | 13.2 | 7.5  | 11.3  | 7.5  | 18.9  | 7.5   | 20.7 | 17.0  |
| 77.5° | 7.5  | 9.4  | 0.0  | 9.4  | 0.0  | 0.0   | 5.7  | 13.2  | 5.7   | 15.1 | 18.9  |
| 80°   | 0.0  | 9.4  | 5.7  | 0.0  | 3.8  | 5.7   | 0.0  | 1.9   | 3.8   | 17.0 | 7.5   |
| 82.5° | 3.8  | 5.7  | 7.5  | 3.8  | 3.8  | 0.0   | 0.0  | 0.0   | 0.0   | 11.3 | 9.4   |
| 85°   | 3.8  | 7.5  | 0.0  | 1.9  | 7.5  | 3.8   | 1.9  | 9.4   | 3.8   | 13.2 | 15.1  |
| 87.5° | 0.0  | 3.8  | 3.8  | 0.0  | 5.7  | 0.0   | 5.7  | 3.8   | 0.0   | 11.3 | 5.7   |
| 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: P315463

CATALOG NUMBER: LDA2B20FL8027D010 PIN1MB

**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 66.9 | 66.9   | 66.9 | 66.9   | 66.9 |
| 2.5°  | 57.5 | 51.8   | 44.3 | 55.6   | 46.2 |
| 5°    | 68.8 | 63.2   | 50.0 | 59.4   | 53.7 |
| 7.5°  | 70.7 | 59.4   | 51.8 | 48.1   | 53.7 |
| 10°   | 42.4 | 28.3   | 20.7 | 28.3   | 15.1 |
| 12.5° | 70.7 | 50.0   | 46.2 | 51.8   | 57.5 |
| 15°   | 53.7 | 32.1   | 32.1 | 24.5   | 34.9 |
| 17.5° | 30.2 | 24.5   | 22.6 | 30.2   | 34.9 |
| 20°   | 32.1 | 20.7   | 17.0 | 28.3   | 26.4 |
| 21°   | 28.3 | 7.5    | 22.6 | 22.6   | 26.4 |
| 22°   | 40.5 | 18.9   | 22.6 | 36.8   | 38.6 |
| 23°   | 26.4 | 20.7   | 17.0 | 22.6   | 30.2 |
| 24°   | 38.6 | 22.6   | 20.7 | 28.3   | 42.4 |
| 25°   | 26.4 | 20.7   | 20.7 | 26.4   | 22.6 |
| 26°   | 15.1 | 20.7   | 15.1 | 22.6   | 18.9 |
| 27°   | 11.3 | 18.9   | 11.3 | 17.0   | 22.6 |
| 28°   | 24.5 | 30.2   | 28.3 | 30.2   | 26.4 |
| 29°   | 26.4 | 32.1   | 26.4 | 40.5   | 30.2 |
| 30°   | 15.1 | 28.3   | 13.2 | 30.2   | 26.4 |
| 31°   | 15.1 | 20.7   | 9.4  | 30.2   | 26.4 |
| 32°   | 1.9  | 11.3   | 5.7  | 11.3   | 11.3 |
| 33°   | 11.3 | 13.2   | 15.1 | 24.5   | 18.9 |
| 34°   | 18.9 | 22.6   | 15.1 | 26.4   | 22.6 |
| 35°   | 20.7 | 11.3   | 17.0 | 28.3   | 30.2 |
| 36°   | 5.7  | 5.7    | 9.4  | 22.6   | 7.5  |
| 37°   | 11.3 | 32.1   | 22.6 | 38.6   | 22.6 |
| 38°   | 18.9 | 38.6   | 36.8 | 48.1   | 38.6 |
| 39°   | 3.8  | 11.3   | 13.2 | 26.4   | 26.4 |
| 40°   | 17.0 | 28.3   | 20.7 | 38.6   | 38.6 |
| 42.5° | 13.2 | 20.7   | 15.1 | 32.1   | 26.4 |
| 45°   | 5.7  | 5.7    | 3.8  | 20.7   | 15.1 |
| 47.5° | 9.4  | 9.4    | 17.0 | 26.4   | 46.2 |
| 50°   | 18.9 | 18.9   | 24.5 | 44.3   | 42.4 |
| 51°   | 11.3 | 9.4    | 13.2 | 30.2   | 38.6 |
| 52°   | 9.4  | 13.2   | 13.2 | 30.2   | 30.2 |
| 53°   | 3.8  | 0.0    | 0.0  | 22.6   | 18.9 |
| 54°   | 3.8  | 1.9    | 5.7  | 17.0   | 26.4 |
| 55°   | 0.0  | 9.4    | 7.5  | 34.9   | 38.6 |
| 57.5° | 1.9  | 15.1   | 7.5  | 24.5   | 30.2 |
| 60°   | 9.4  | 11.3   | 20.7 | 24.5   | 30.2 |
| 61°   | 0.0  | 9.4    | 9.4  | 22.6   | 26.4 |
| 62°   | 0.0  | 7.5    | 17.0 | 20.7   | 26.4 |
| 63°   | 9.4  | 11.3   | 15.1 | 24.5   | 30.2 |





TEST NUMBER: P315463

CATALOG NUMBER: LDA2B20FL8027D010 PIN1MB

**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 66°   | 5.7  | 15.1   | 18.9 | 24.5   | 22.6 |
| 67.5° | 11.3 | 13.2   | 11.3 | 32.1   | 38.6 |
| 70°   | 15.1 | 24.5   | 26.4 | 22.6   | 38.6 |
| 72.5° | 9.4  | 13.2   | 18.9 | 34.9   | 38.6 |
| 75°   | 17.0 | 18.9   | 28.3 | 32.1   | 38.6 |
| 77.5° | 13.2 | 18.9   | 18.9 | 20.7   | 38.6 |
| 80°   | 5.7  | 17.0   | 18.9 | 20.7   | 11.3 |
| 82.5° | 7.5  | 11.3   | 7.5  | 20.7   | 15.1 |
| 85°   | 3.8  | 17.0   | 15.1 | 18.9   | 18.9 |
| 87.5° | 5.7  | 9.4    | 9.4  | 17.0   | 11.3 |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |



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







|     |      |      |      |      |      |      |      |      |     |      |     |
|-----|------|------|------|------|------|------|------|------|-----|------|-----|
| 64° | 42.4 | 44.3 | 42.4 | 30.2 | 22.6 | 20.7 | 15.1 | 26.4 | 7.5 | 7.5  | 0.0 |
| 65° | 38.6 | 42.4 | 32.1 | 36.8 | 24.5 | 22.6 | 13.2 | 26.4 | 3.8 | 13.2 | 9.4 |







|     |     |      |      |      |      |
|-----|-----|------|------|------|------|
| 64° | 5.7 | 9.4  | 9.4  | 17.0 | 26.4 |
| 65° | 9.4 | 13.2 | 13.2 | 24.5 | 18.9 |



(END OF REPORT)