

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: P315303

Luminaire Tested: **LDA2B10FL8035D010 PIN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315303
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: LDA2B10FL8035D010 PIN1MW
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

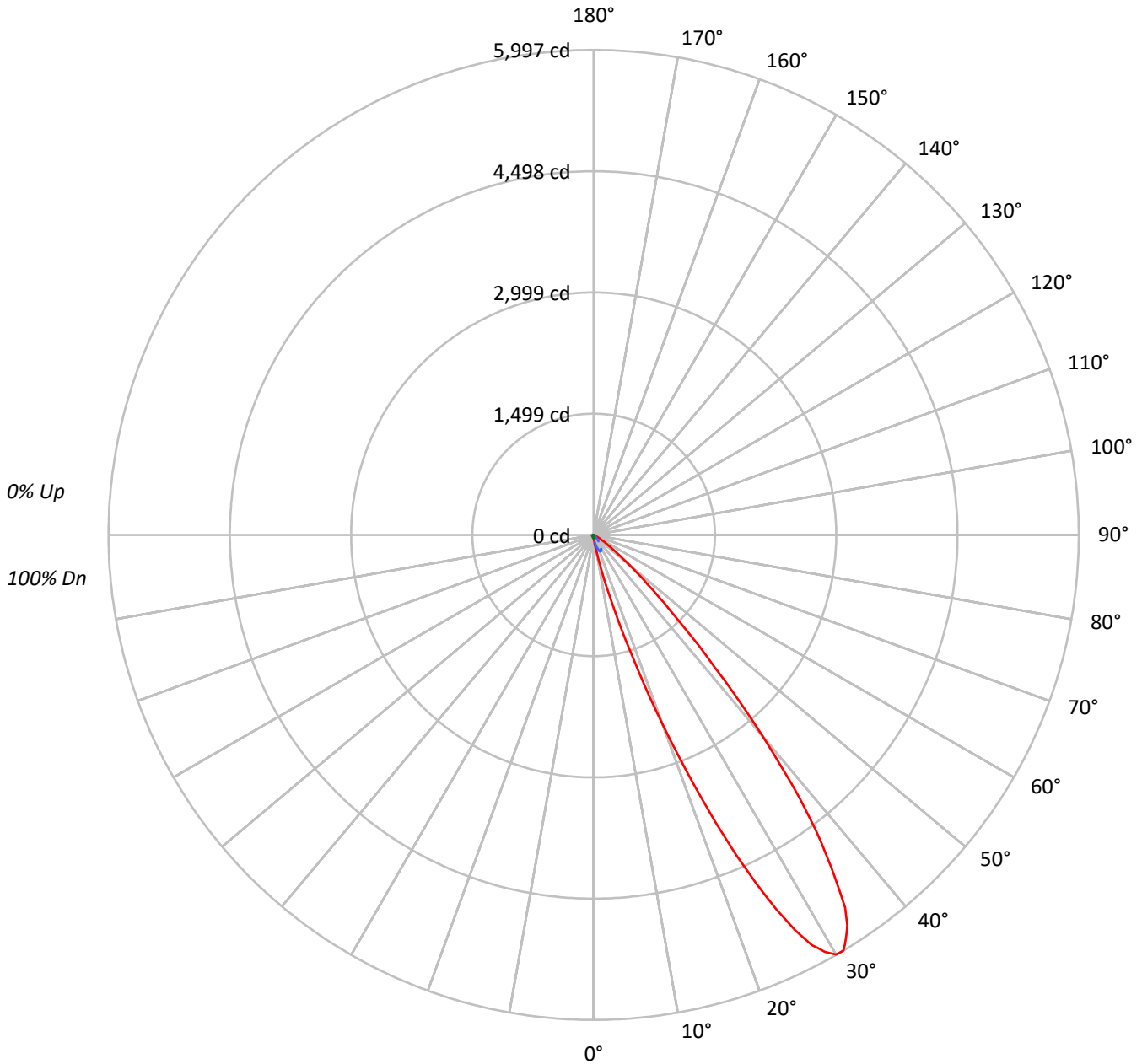
Lumens per Lamp: N/A
Luminaire Lumens: 875.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.6 / 1.34
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P315303
CATALOG NUMBER: LDA2B10FL8035D010 PIN1MW

Luminous Intensity Polar Plot





TEST NUMBER: P315303

CATALOG NUMBER: LDA2B10FL8035D010 PIN1MW

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° | 18402 | 18402 | 18402 |
| 5° | 41056 | 18968 | 14808 |
| 10° | 109913 | 11823 | 4208 |
| 15° | 432670 | 15272 | 9909 |
| 20° | 1308834 | 9345 | 7718 |
| 25° | 2590086 | 8002 | 6859 |
| 30° | 3412870 | 4785 | 8374 |
| 35° | 3149220 | 6926 | 10118 |
| 40° | 2097632 | 6054 | 13847 |
| 45° | 989435 | 2163 | 5861 |
| 50° | 436267 | 8059 | 18114 |
| 55° | 177449 | 0 | 18493 |
| 60° | 73511 | 5131 | 16577 |
| 65° | 25099 | 6070 | 12258 |
| 70° | 21205 | 12117 | 31014 |
| 75° | 12009 | 17918 | 40983 |
| 80° | 0 | 8808 | 17899 |
| 85° | 11887 | 11887 | 59437 |



TEST NUMBER: P315303

CATALOG NUMBER: LDA2B10FL8035D010 PIN1MW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.1 | 0.6 |
| 10°-20° | 53.5 | 6.1 |
| 20°-30° | 275.2 | 31.5 |
| 30°-40° | 352.4 | 40.3 |
| 40°-50° | 135.5 | 15.5 |
| 50°-60° | 27.5 | 3.1 |
| 60°-70° | 9.3 | 1.1 |
| 70°-80° | 10.8 | 1.2 |
| 80°-90° | 5.5 | 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° | 333.9 | 38.2 |
| 0°-40° | 686.3 | 78.4 |
| 0°-60° | 849.3 | 97.1 |
| 0°-90° | 875.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 875.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 37 | 37 | 37 | 37 | 37 | |
| 5° | 83 | 68 | 38 | 28 | 30 | 12 |
| 15° | 847 | 165 | 30 | 18 | 19 | 325 |
| 25° | 4758 | 215 | 15 | 12 | 13 | 2172 |
| 35° | 5229 | 112 | 12 | 9 | 17 | 3125 |
| 45° | 1418 | 28 | 3 | 2 | 8 | 1219 |
| 55° | 206 | 5 | 0 | 4 | 22 | 214 |
| 65° | 22 | 7 | 5 | 7 | 10 | 30 |
| 75° | 6 | 12 | 9 | 16 | 22 | 9 |
| 85° | 2 | 7 | 2 | 8 | 10 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P315303

CATALOG NUMBER: LDA2B10FL8035D010 PIN1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 2.5° | 55.1 | 47.8 | 49.9 | 42.5 | 46.7 | 47.8 | 39.4 | 52.0 | 46.7 | 48.8 | 42.5 |
| 5° | 82.9 | 89.2 | 81.9 | 78.7 | 76.6 | 78.7 | 76.6 | 79.8 | 77.7 | 68.2 | 48.8 |
| 7.5° | 138.6 | 126.5 | 126.5 | 122.3 | 125.4 | 124.4 | 119.1 | 122.3 | 114.9 | 82.9 | 56.2 |
| 10° | 219.4 | 207.3 | 206.3 | 203.1 | 202.1 | 192.6 | 187.4 | 183.2 | 167.9 | 98.1 | 50.9 |
| 12.5° | 429.8 | 419.3 | 412.0 | 393.6 | 381.0 | 373.7 | 345.9 | 331.2 | 287.6 | 145.9 | 65.1 |
| 15° | 847.1 | 793.0 | 806.6 | 747.3 | 703.8 | 674.9 | 617.2 | 566.3 | 461.8 | 164.8 | 63.0 |
| 17.5° | 1498.9 | 1446.4 | 1411.2 | 1346.7 | 1258.0 | 1181.4 | 1067.5 | 954.6 | 742.1 | 187.4 | 58.8 |
| 20° | 2492.9 | 2410.0 | 2336.5 | 2225.8 | 2055.2 | 1907.7 | 1707.2 | 1491.5 | 1104.7 | 214.1 | 53.0 |
| 21° | 2929.5 | 2865.5 | 2780.5 | 2634.6 | 2435.7 | 2238.4 | 1998.0 | 1738.2 | 1259.0 | 216.2 | 47.8 |
| 22° | 3385.1 | 3343.6 | 3231.8 | 3064.4 | 2832.4 | 2597.3 | 2302.4 | 2016.9 | 1423.3 | 219.4 | 45.7 |
| 23° | 3859.5 | 3816.0 | 3689.5 | 3497.9 | 3237.1 | 2952.6 | 2608.9 | 2270.4 | 1577.6 | 223.6 | 44.6 |
| 24° | 4324.0 | 4275.7 | 4134.5 | 3920.4 | 3624.4 | 3297.4 | 2909.1 | 2516.5 | 1721.4 | 221.5 | 46.7 |
| 25° | 4758.0 | 4690.8 | 4541.8 | 4304.6 | 3979.7 | 3612.9 | 3184.6 | 2729.1 | 1847.9 | 215.2 | 39.4 |
| 26° | 5145.3 | 5068.7 | 4908.1 | 4649.4 | 4294.1 | 3896.8 | 3414.5 | 2926.4 | 1941.3 | 209.9 | 37.3 |
| 27° | 5481.7 | 5385.2 | 5213.6 | 4942.2 | 4561.2 | 4122.5 | 3610.8 | 3080.7 | 2023.7 | 202.1 | 29.9 |
| 28° | 5743.6 | 5632.9 | 5458.6 | 5172.1 | 4769.6 | 4298.3 | 3755.1 | 3177.3 | 2072.5 | 203.1 | 34.1 |
| 29° | 5894.8 | 5809.7 | 5620.3 | 5320.1 | 4896.6 | 4399.6 | 3831.2 | 3230.8 | 2082.0 | 187.4 | 32.0 |
| 30° | 5990.8 | 5895.8 | 5701.1 | 5387.3 | 4945.4 | 4422.6 | 3840.6 | 3220.8 | 2054.1 | 175.8 | 29.9 |
| 31° | 5997.1 | 5897.9 | 5700.1 | 5375.2 | 4926.5 | 4384.3 | 3788.1 | 3161.5 | 1993.8 | 163.7 | 24.7 |
| 32° | 5884.3 | 5807.6 | 5612.9 | 5277.6 | 4824.1 | 4278.8 | 3675.3 | 3061.3 | 1898.8 | 139.6 | 16.8 |
| 33° | 5756.7 | 5663.8 | 5470.2 | 5131.7 | 4682.4 | 4134.5 | 3512.6 | 2926.4 | 1800.1 | 137.5 | 21.5 |
| 34° | 5558.4 | 5446.6 | 5256.1 | 4922.8 | 4485.6 | 3928.8 | 3319.0 | 2746.4 | 1674.2 | 125.4 | 20.5 |
| 35° | 5228.8 | 5168.9 | 4976.3 | 4647.3 | 4222.7 | 3682.1 | 3085.9 | 2548.5 | 1540.3 | 111.8 | 14.7 |
| 36° | 4898.7 | 4825.2 | 4643.1 | 4325.0 | 3922.5 | 3388.2 | 2823.0 | 2322.8 | 1389.2 | 95.0 | 11.5 |
| 37° | 4549.7 | 4453.6 | 4287.8 | 3976.6 | 3556.2 | 3095.4 | 2570.6 | 2107.7 | 1265.9 | 100.2 | 15.7 |
| 38° | 4142.9 | 4110.9 | 3892.6 | 3602.9 | 3214.5 | 2779.4 | 2299.2 | 1881.0 | 1129.4 | 93.4 | 25.7 |
| 39° | 3695.8 | 3674.3 | 3456.5 | 3192.5 | 2844.0 | 2444.1 | 2021.6 | 1645.8 | 993.0 | 68.2 | 8.4 |
| 40° | 3257.0 | 3195.6 | 3041.3 | 2801.5 | 2498.1 | 2138.6 | 1773.4 | 1445.4 | 874.9 | 67.2 | 16.8 |
| 42.5° | 2207.4 | 2226.8 | 2059.9 | 1888.3 | 1693.6 | 1449.5 | 1206.0 | 990.9 | 611.9 | 49.9 | 10.5 |
| 45° | 1418.1 | 1422.3 | 1347.7 | 1214.4 | 1086.9 | 934.7 | 774.1 | 645.0 | 394.7 | 27.8 | 3.1 |
| 47.5° | 902.7 | 900.6 | 852.8 | 776.2 | 692.8 | 603.5 | 503.3 | 421.4 | 255.6 | 21.5 | 9.4 |
| 50° | 568.4 | 566.3 | 536.4 | 487.6 | 440.8 | 382.1 | 319.1 | 271.3 | 161.6 | 25.7 | 10.5 |
| 51° | 461.8 | 465.0 | 439.8 | 390.5 | 354.3 | 298.1 | 254.5 | 216.2 | 126.5 | 17.8 | 9.4 |
| 52° | 381.0 | 378.9 | 363.2 | 321.7 | 291.8 | 243.5 | 207.3 | 176.9 | 105.5 | 15.7 | 4.2 |
| 53° | 306.5 | 307.5 | 291.8 | 259.8 | 230.9 | 194.7 | 165.8 | 137.5 | 75.6 | 11.5 | 3.1 |
| 54° | 242.5 | 240.4 | 235.1 | 204.2 | 186.3 | 154.3 | 129.6 | 105.5 | 65.1 | 2.1 | 0.0 |
| 55° | 206.3 | 203.1 | 195.8 | 169.0 | 151.1 | 127.5 | 103.4 | 90.3 | 56.2 | 5.2 | 0.0 |
| 57.5° | 119.1 | 119.1 | 114.9 | 100.2 | 88.2 | 78.7 | 63.0 | 58.8 | 28.9 | 5.2 | 0.0 |
| 60° | 74.5 | 65.1 | 72.4 | 61.9 | 48.8 | 43.6 | 36.2 | 33.1 | 24.7 | 9.4 | 2.1 |
| 61° | 61.9 | 49.9 | 48.8 | 45.7 | 42.5 | 28.9 | 24.7 | 26.8 | 15.7 | 3.1 | 2.1 |
| 62° | 44.6 | 39.4 | 42.5 | 36.2 | 32.0 | 22.6 | 20.5 | 19.4 | 9.4 | 4.2 | 5.2 |
| 63° | 40.4 | 36.2 | 35.2 | 26.8 | 23.6 | 23.6 | 17.8 | 16.8 | 11.5 | 8.4 | 4.2 |



TEST NUMBER: P315303

CATALOG NUMBER: LDA2B10FL8035D010 PIN1MW

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|------|------|------|------|------|-------|------|-------|-------|------|-------|
| 66° | 21.5 | 17.8 | 15.7 | 17.8 | 10.5 | 13.6 | 5.2 | 14.7 | 3.1 | 5.2 | 3.1 |
| 67.5° | 16.8 | 10.5 | 9.4 | 11.5 | 7.3 | 5.2 | 7.3 | 9.4 | 3.1 | 5.2 | 7.3 |
| 70° | 14.7 | 7.3 | 10.5 | 9.4 | 7.3 | 9.4 | 10.5 | 10.5 | 3.1 | 10.5 | 9.4 |
| 72.5° | 14.7 | 9.4 | 5.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 6.3 | 14.7 | 11.5 |
| 75° | 6.3 | 6.3 | 3.1 | 7.3 | 4.2 | 6.3 | 4.2 | 10.5 | 4.2 | 11.5 | 9.4 |
| 77.5° | 4.2 | 5.2 | 0.0 | 5.2 | 0.0 | 0.0 | 3.1 | 7.3 | 3.1 | 8.4 | 10.5 |
| 80° | 0.0 | 5.2 | 3.1 | 0.0 | 2.1 | 3.1 | 0.0 | 1.0 | 2.1 | 9.4 | 4.2 |
| 82.5° | 2.1 | 3.1 | 4.2 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | 5.2 |
| 85° | 2.1 | 4.2 | 0.0 | 1.0 | 4.2 | 2.1 | 1.0 | 5.2 | 2.1 | 7.3 | 8.4 |
| 87.5° | 0.0 | 2.1 | 2.1 | 0.0 | 3.1 | 0.0 | 3.1 | 2.1 | 0.0 | 6.3 | 3.1 |
| 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: P315303

CATALOG NUMBER: LDA2B10FL8035D010 PIN1MW

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0° | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 |
| 2.5° | 32.0 | 28.9 | 24.7 | 31.0 | 25.7 |
| 5° | 38.3 | 35.2 | 27.8 | 33.1 | 29.9 |
| 7.5° | 39.4 | 33.1 | 28.9 | 26.8 | 29.9 |
| 10° | 23.6 | 15.7 | 11.5 | 15.7 | 8.4 |
| 12.5° | 39.4 | 27.8 | 25.7 | 28.9 | 32.0 |
| 15° | 29.9 | 17.8 | 17.8 | 13.6 | 19.4 |
| 17.5° | 16.8 | 13.6 | 12.6 | 16.8 | 19.4 |
| 20° | 17.8 | 11.5 | 9.4 | 15.7 | 14.7 |
| 21° | 15.7 | 4.2 | 12.6 | 12.6 | 14.7 |
| 22° | 22.6 | 10.5 | 12.6 | 20.5 | 21.5 |
| 23° | 14.7 | 11.5 | 9.4 | 12.6 | 16.8 |
| 24° | 21.5 | 12.6 | 11.5 | 15.7 | 23.6 |
| 25° | 14.7 | 11.5 | 11.5 | 14.7 | 12.6 |
| 26° | 8.4 | 11.5 | 8.4 | 12.6 | 10.5 |
| 27° | 6.3 | 10.5 | 6.3 | 9.4 | 12.6 |
| 28° | 13.6 | 16.8 | 15.7 | 16.8 | 14.7 |
| 29° | 14.7 | 17.8 | 14.7 | 22.6 | 16.8 |
| 30° | 8.4 | 15.7 | 7.3 | 16.8 | 14.7 |
| 31° | 8.4 | 11.5 | 5.2 | 16.8 | 14.7 |
| 32° | 1.0 | 6.3 | 3.1 | 6.3 | 6.3 |
| 33° | 6.3 | 7.3 | 8.4 | 13.6 | 10.5 |
| 34° | 10.5 | 12.6 | 8.4 | 14.7 | 12.6 |
| 35° | 11.5 | 6.3 | 9.4 | 15.7 | 16.8 |
| 36° | 3.1 | 3.1 | 5.2 | 12.6 | 4.2 |
| 37° | 6.3 | 17.8 | 12.6 | 21.5 | 12.6 |
| 38° | 10.5 | 21.5 | 20.5 | 26.8 | 21.5 |
| 39° | 2.1 | 6.3 | 7.3 | 14.7 | 14.7 |
| 40° | 9.4 | 15.7 | 11.5 | 21.5 | 21.5 |
| 42.5° | 7.3 | 11.5 | 8.4 | 17.8 | 14.7 |
| 45° | 3.1 | 3.1 | 2.1 | 11.5 | 8.4 |
| 47.5° | 5.2 | 5.2 | 9.4 | 14.7 | 25.7 |
| 50° | 10.5 | 10.5 | 13.6 | 24.7 | 23.6 |
| 51° | 6.3 | 5.2 | 7.3 | 16.8 | 21.5 |
| 52° | 5.2 | 7.3 | 7.3 | 16.8 | 16.8 |
| 53° | 2.1 | 0.0 | 0.0 | 12.6 | 10.5 |
| 54° | 2.1 | 1.0 | 3.1 | 9.4 | 14.7 |
| 55° | 0.0 | 5.2 | 4.2 | 19.4 | 21.5 |
| 57.5° | 1.0 | 8.4 | 4.2 | 13.6 | 16.8 |
| 60° | 5.2 | 6.3 | 11.5 | 13.6 | 16.8 |
| 61° | 0.0 | 5.2 | 5.2 | 12.6 | 14.7 |
| 62° | 0.0 | 4.2 | 9.4 | 11.5 | 14.7 |
| 63° | 5.2 | 6.3 | 8.4 | 13.6 | 16.8 |



TEST NUMBER: P315303

CATALOG NUMBER: LDA2B10FL8035D010 PIN1MW

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 66° | 3.1 | 8.4 | 10.5 | 13.6 | 12.6 |
| 67.5° | 6.3 | 7.3 | 6.3 | 17.8 | 21.5 |
| 70° | 8.4 | 13.6 | 14.7 | 12.6 | 21.5 |
| 72.5° | 5.2 | 7.3 | 10.5 | 19.4 | 21.5 |
| 75° | 9.4 | 10.5 | 15.7 | 17.8 | 21.5 |
| 77.5° | 7.3 | 10.5 | 10.5 | 11.5 | 21.5 |
| 80° | 3.1 | 9.4 | 10.5 | 11.5 | 6.3 |
| 82.5° | 4.2 | 6.3 | 4.2 | 11.5 | 8.4 |
| 85° | 2.1 | 9.4 | 8.4 | 10.5 | 10.5 |
| 87.5° | 3.1 | 5.2 | 5.2 | 9.4 | 6.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By E9808895 / USPTCWHP6082093





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







| | | | | | | | | | | | |
|-----|------|------|------|------|------|------|-----|------|-----|-----|-----|
| 64° | 23.6 | 24.7 | 23.6 | 16.8 | 12.6 | 11.5 | 8.4 | 14.7 | 4.2 | 4.2 | 0.0 |
| 65° | 21.5 | 23.6 | 17.8 | 20.5 | 13.6 | 12.6 | 7.3 | 14.7 | 2.1 | 7.3 | 5.2 |





| | | | | | |
|-----|-----|-----|-----|------|------|
| 64° | 3.1 | 5.2 | 5.2 | 9.4 | 14.7 |
| 65° | 5.2 | 7.3 | 7.3 | 13.6 | 10.5 |



(END OF REPORT)