

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: P315536

Luminaire Tested: **LDA2B20FL9730D010 PINW1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315536
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: LDA2B20FL9730D010 PINW1MB
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj PinHole, White oculus black finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1231.6 lumens
Efficiency: N/A
Efficacy: 59.8 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

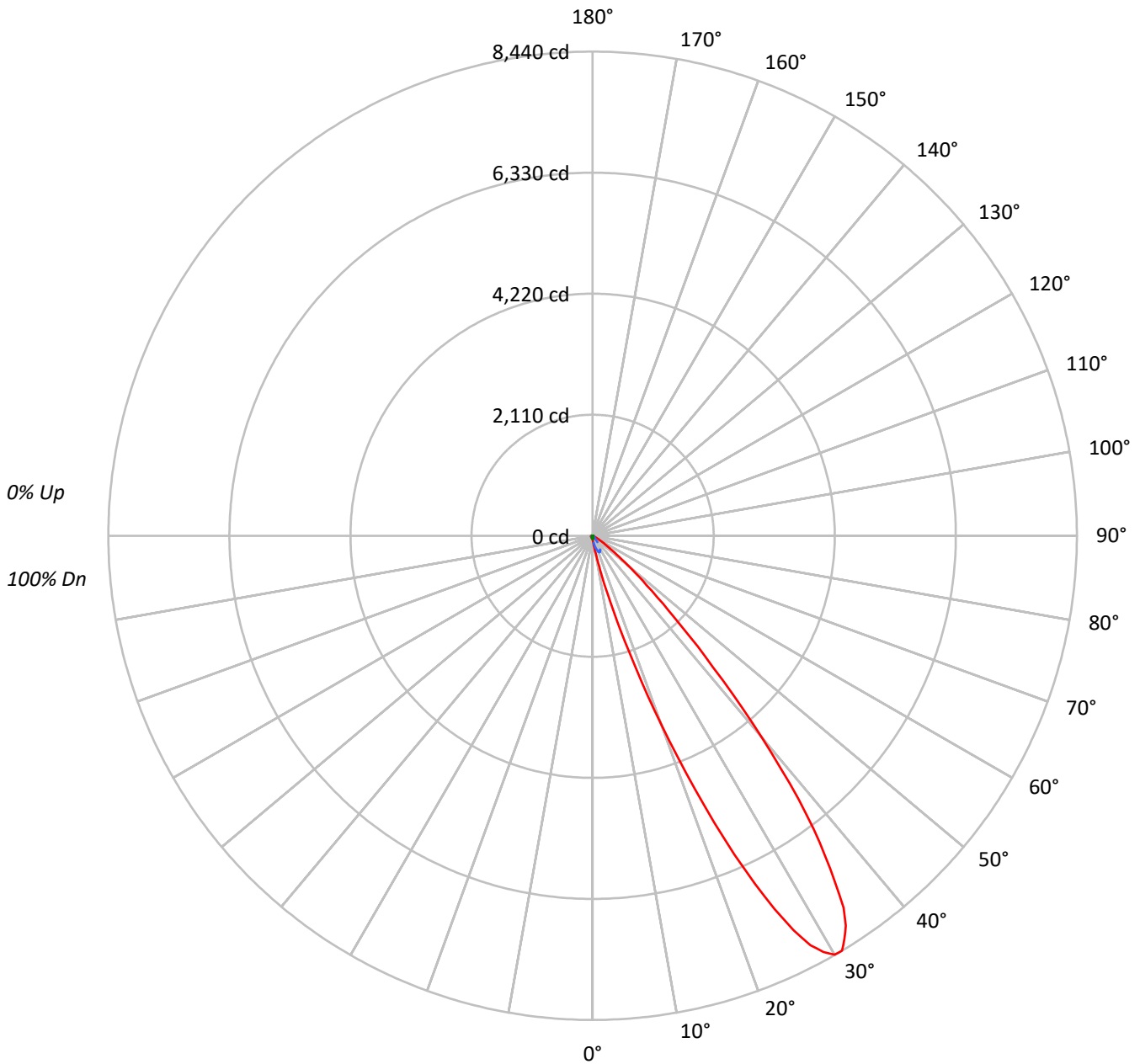
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P315536

CATALOG NUMBER: LDA2B20FL9730D010 PINW1MB

Luminous Intensity Polar Plot





TEST NUMBER: P315536

CATALOG NUMBER: LDA2B20FL9730D010 PINW1MB

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° | 25852 | 25852 | 25852 |
| 5° | 57795 | 26694 | 20850 |
| 10° | 154650 | 16632 | 5911 |
| 15° | 608884 | 21503 | 13944 |
| 20° | 1841996 | 13178 | 10868 |
| 25° | 3645228 | 11268 | 9635 |
| 30° | 4803186 | 6722 | 11792 |
| 35° | 4432084 | 9757 | 14214 |
| 40° | 2952142 | 8566 | 19514 |
| 45° | 1392438 | 3070 | 8233 |
| 50° | 613951 | 11360 | 25482 |
| 55° | 249702 | 0 | 26063 |
| 60° | 103507 | 7302 | 23287 |
| 65° | 35372 | 8639 | 17277 |
| 70° | 29860 | 17021 | 43708 |
| 75° | 16965 | 25353 | 57758 |
| 80° | 0 | 12501 | 25286 |
| 85° | 16982 | 16982 | 83778 |



TEST NUMBER: P315536

CATALOG NUMBER: LDA2B20FL9730D010 PINW1MB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.1 | 0.6 |
| 10°-20° | 75.4 | 6.1 |
| 20°-30° | 387.4 | 31.5 |
| 30°-40° | 496.0 | 40.3 |
| 40°-50° | 190.7 | 15.5 |
| 50°-60° | 38.8 | 3.1 |
| 60°-70° | 13.2 | 1.1 |
| 70°-80° | 15.3 | 1.2 |
| 80°-90° | 7.8 | 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° | 469.9 | 38.1 |
| 0°-40° | 965.9 | 78.4 |
| 0°-60° | 1195.4 | 97.1 |
| 0°-90° | 1231.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1231.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 52 | 52 | 52 | 52 | 52 | |
| 5° | 117 | 96 | 54 | 39 | 42 | 17 |
| 15° | 1192 | 232 | 42 | 25 | 27 | 457 |
| 25° | 6696 | 303 | 21 | 16 | 18 | 3057 |
| 35° | 7359 | 157 | 16 | 13 | 24 | 4398 |
| 45° | 1996 | 39 | 4 | 3 | 12 | 1715 |
| 55° | 290 | 7 | 0 | 6 | 30 | 301 |
| 65° | 30 | 10 | 7 | 10 | 15 | 43 |
| 75° | 9 | 16 | 13 | 22 | 30 | 12 |
| 85° | 3 | 10 | 3 | 12 | 15 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P315536

CATALOG NUMBER: LDA2B20FL9730D010 PINW1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 |
| 2.5° | 77.6 | 67.2 | 70.2 | 59.8 | 65.7 | 67.2 | 55.4 | 73.1 | 65.7 | 68.7 | 59.8 |
| 5° | 116.7 | 125.6 | 115.2 | 110.8 | 107.8 | 110.8 | 107.8 | 112.3 | 109.3 | 96.0 | 68.7 |
| 7.5° | 195.0 | 178.0 | 178.0 | 172.1 | 176.5 | 175.1 | 167.7 | 172.1 | 161.8 | 116.7 | 79.0 |
| 10° | 308.7 | 291.8 | 290.3 | 285.8 | 284.4 | 271.1 | 263.7 | 257.8 | 236.4 | 138.1 | 71.6 |
| 12.5° | 604.9 | 590.2 | 579.8 | 554.0 | 536.2 | 525.9 | 486.7 | 466.1 | 404.8 | 205.3 | 91.6 |
| 15° | 1192.1 | 1116.0 | 1135.3 | 1051.8 | 990.5 | 949.9 | 868.6 | 797.0 | 650.0 | 231.9 | 88.6 |
| 17.5° | 2109.5 | 2035.6 | 1986.1 | 1895.3 | 1770.5 | 1662.6 | 1502.3 | 1343.5 | 1044.4 | 263.7 | 82.7 |
| 20° | 3508.4 | 3391.7 | 3288.3 | 3132.5 | 2892.4 | 2684.9 | 2402.7 | 2099.1 | 1554.8 | 301.4 | 74.6 |
| 21° | 4122.9 | 4032.8 | 3913.2 | 3707.8 | 3427.9 | 3150.2 | 2811.9 | 2446.3 | 1771.9 | 304.3 | 67.2 |
| 22° | 4764.1 | 4705.7 | 4548.4 | 4312.8 | 3986.3 | 3655.4 | 3240.3 | 2838.5 | 2003.1 | 308.7 | 64.3 |
| 23° | 5431.8 | 5370.5 | 5192.5 | 4922.9 | 4555.8 | 4155.4 | 3671.7 | 3195.2 | 2220.3 | 314.6 | 62.8 |
| 24° | 6085.4 | 6017.5 | 5818.8 | 5517.4 | 5100.9 | 4640.7 | 4094.1 | 3541.7 | 2422.7 | 311.7 | 65.7 |
| 25° | 6696.3 | 6601.7 | 6392.0 | 6058.1 | 5600.9 | 5084.6 | 4481.9 | 3840.8 | 2600.7 | 302.8 | 55.4 |
| 26° | 7241.4 | 7133.5 | 6907.5 | 6543.4 | 6043.3 | 5484.2 | 4805.4 | 4118.5 | 2732.1 | 295.4 | 52.4 |
| 27° | 7714.8 | 7578.9 | 7337.4 | 6955.5 | 6419.3 | 5801.8 | 5081.7 | 4335.7 | 2848.1 | 284.4 | 42.1 |
| 28° | 8083.4 | 7927.5 | 7682.3 | 7279.0 | 6712.5 | 6049.3 | 5284.8 | 4471.6 | 2916.8 | 285.8 | 48.0 |
| 29° | 8296.1 | 8176.5 | 7909.8 | 7487.3 | 6891.3 | 6191.8 | 5391.9 | 4546.9 | 2930.1 | 263.7 | 45.1 |
| 30° | 8431.3 | 8297.6 | 8023.6 | 7581.9 | 6960.0 | 6224.3 | 5405.2 | 4532.9 | 2890.9 | 247.4 | 42.1 |
| 31° | 8440.1 | 8300.5 | 8022.1 | 7564.9 | 6933.4 | 6170.4 | 5331.3 | 4449.4 | 2806.0 | 230.4 | 34.7 |
| 32° | 8281.3 | 8173.5 | 7899.5 | 7427.5 | 6789.3 | 6021.9 | 5172.5 | 4308.3 | 2672.3 | 196.5 | 23.6 |
| 33° | 8101.9 | 7971.1 | 7698.6 | 7222.2 | 6589.9 | 5818.8 | 4943.5 | 4118.5 | 2533.4 | 193.5 | 30.3 |
| 34° | 7822.7 | 7665.3 | 7397.2 | 6928.2 | 6312.9 | 5529.3 | 4671.0 | 3865.2 | 2356.2 | 176.5 | 28.8 |
| 35° | 7358.8 | 7274.6 | 7003.5 | 6540.4 | 5942.9 | 5182.1 | 4343.1 | 3586.7 | 2167.8 | 157.3 | 20.7 |
| 36° | 6894.2 | 6790.8 | 6534.5 | 6086.9 | 5520.4 | 4768.5 | 3973.0 | 3269.1 | 1955.1 | 133.7 | 16.2 |
| 37° | 6403.0 | 6267.9 | 6034.5 | 5596.5 | 5004.9 | 4356.3 | 3617.7 | 2966.3 | 1781.5 | 141.1 | 22.2 |
| 38° | 5830.6 | 5785.6 | 5478.3 | 5070.6 | 4524.0 | 3911.7 | 3235.9 | 2647.2 | 1589.5 | 131.5 | 36.2 |
| 39° | 5201.3 | 5171.0 | 4864.5 | 4493.0 | 4002.6 | 3439.7 | 2845.1 | 2316.3 | 1397.5 | 96.0 | 11.8 |
| 40° | 4583.8 | 4497.4 | 4280.3 | 3942.7 | 3515.8 | 3009.9 | 2495.8 | 2034.1 | 1231.3 | 94.5 | 23.6 |
| 42.5° | 3106.6 | 3133.9 | 2899.1 | 2657.5 | 2383.5 | 2040.1 | 1697.3 | 1394.5 | 861.2 | 70.2 | 14.8 |
| 45° | 1995.7 | 2001.6 | 1896.8 | 1709.2 | 1529.7 | 1315.5 | 1089.5 | 907.8 | 555.4 | 39.1 | 4.4 |
| 47.5° | 1270.4 | 1267.5 | 1200.2 | 1092.4 | 975.0 | 849.4 | 708.3 | 593.1 | 359.7 | 30.3 | 13.3 |
| 50° | 799.9 | 797.0 | 754.9 | 686.2 | 620.4 | 537.7 | 449.1 | 381.9 | 227.5 | 36.2 | 14.8 |
| 51° | 650.0 | 654.4 | 619.0 | 549.5 | 498.6 | 419.5 | 358.2 | 304.3 | 178.0 | 25.1 | 13.3 |
| 52° | 536.2 | 533.3 | 511.1 | 452.8 | 410.7 | 342.7 | 291.8 | 248.9 | 148.5 | 22.2 | 5.9 |
| 53° | 431.4 | 432.8 | 410.7 | 365.6 | 325.0 | 274.0 | 233.4 | 193.5 | 106.4 | 16.2 | 4.4 |
| 54° | 341.2 | 338.3 | 330.9 | 287.3 | 262.2 | 217.2 | 182.4 | 148.5 | 91.6 | 3.0 | 0.0 |
| 55° | 290.3 | 285.8 | 275.5 | 237.8 | 212.7 | 179.5 | 145.5 | 127.0 | 79.0 | 7.4 | 0.0 |
| 57.5° | 167.7 | 167.7 | 161.8 | 141.1 | 124.1 | 110.8 | 88.6 | 82.7 | 40.6 | 7.4 | 0.0 |
| 60° | 104.9 | 91.6 | 101.9 | 87.2 | 68.7 | 61.3 | 51.0 | 46.5 | 34.7 | 13.3 | 3.0 |
| 61° | 87.2 | 70.2 | 68.7 | 64.3 | 59.8 | 40.6 | 34.7 | 37.7 | 22.2 | 4.4 | 3.0 |
| 62° | 62.8 | 55.4 | 59.8 | 51.0 | 45.1 | 31.8 | 28.8 | 27.3 | 13.3 | 5.9 | 7.4 |
| 63° | 56.9 | 51.0 | 49.5 | 37.7 | 33.2 | 33.2 | 25.1 | 23.6 | 16.2 | 11.8 | 5.9 |



TEST NUMBER: P315536

CATALOG NUMBER: LDA2B20FL9730D010 PINW1MB

CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|------|------|------|------|------|-------|------|-------|-------|------|-------|
| 66° | 30.3 | 25.1 | 22.2 | 25.1 | 14.8 | 19.2 | 7.4 | 20.7 | 4.4 | 7.4 | 4.4 |
| 67.5° | 23.6 | 14.8 | 13.3 | 16.2 | 10.3 | 7.4 | 10.3 | 13.3 | 4.4 | 7.4 | 10.3 |
| 70° | 20.7 | 10.3 | 14.8 | 13.3 | 10.3 | 13.3 | 14.8 | 14.8 | 4.4 | 14.8 | 13.3 |
| 72.5° | 20.7 | 13.3 | 7.4 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 8.9 | 20.7 | 16.2 |
| 75° | 8.9 | 8.9 | 4.4 | 10.3 | 5.9 | 8.9 | 5.9 | 14.8 | 5.9 | 16.2 | 13.3 |
| 77.5° | 5.9 | 7.4 | 0.0 | 7.4 | 0.0 | 0.0 | 4.4 | 10.3 | 4.4 | 11.8 | 14.8 |
| 80° | 0.0 | 7.4 | 4.4 | 0.0 | 3.0 | 4.4 | 0.0 | 1.5 | 3.0 | 13.3 | 5.9 |
| 82.5° | 3.0 | 4.4 | 5.9 | 3.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.9 | 7.4 |
| 85° | 3.0 | 5.9 | 0.0 | 1.5 | 5.9 | 3.0 | 1.5 | 7.4 | 3.0 | 10.3 | 11.8 |
| 87.5° | 0.0 | 3.0 | 3.0 | 0.0 | 4.4 | 0.0 | 4.4 | 3.0 | 0.0 | 8.9 | 4.4 |
| 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: P315536

CATALOG NUMBER: LDA2B20FL9730D010 PINW1MB

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0° | 52.4 | 52.4 | 52.4 | 52.4 | 52.4 |
| 2.5° | 45.1 | 40.6 | 34.7 | 43.6 | 36.2 |
| 5° | 53.9 | 49.5 | 39.1 | 46.5 | 42.1 |
| 7.5° | 55.4 | 46.5 | 40.6 | 37.7 | 42.1 |
| 10° | 33.2 | 22.2 | 16.2 | 22.2 | 11.8 |
| 12.5° | 55.4 | 39.1 | 36.2 | 40.6 | 45.1 |
| 15° | 42.1 | 25.1 | 25.1 | 19.2 | 27.3 |
| 17.5° | 23.6 | 19.2 | 17.7 | 23.6 | 27.3 |
| 20° | 25.1 | 16.2 | 13.3 | 22.2 | 20.7 |
| 21° | 22.2 | 5.9 | 17.7 | 17.7 | 20.7 |
| 22° | 31.8 | 14.8 | 17.7 | 28.8 | 30.3 |
| 23° | 20.7 | 16.2 | 13.3 | 17.7 | 23.6 |
| 24° | 30.3 | 17.7 | 16.2 | 22.2 | 33.2 |
| 25° | 20.7 | 16.2 | 16.2 | 20.7 | 17.7 |
| 26° | 11.8 | 16.2 | 11.8 | 17.7 | 14.8 |
| 27° | 8.9 | 14.8 | 8.9 | 13.3 | 17.7 |
| 28° | 19.2 | 23.6 | 22.2 | 23.6 | 20.7 |
| 29° | 20.7 | 25.1 | 20.7 | 31.8 | 23.6 |
| 30° | 11.8 | 22.2 | 10.3 | 23.6 | 20.7 |
| 31° | 11.8 | 16.2 | 7.4 | 23.6 | 20.7 |
| 32° | 1.5 | 8.9 | 4.4 | 8.9 | 8.9 |
| 33° | 8.9 | 10.3 | 11.8 | 19.2 | 14.8 |
| 34° | 14.8 | 17.7 | 11.8 | 20.7 | 17.7 |
| 35° | 16.2 | 8.9 | 13.3 | 22.2 | 23.6 |
| 36° | 4.4 | 4.4 | 7.4 | 17.7 | 5.9 |
| 37° | 8.9 | 25.1 | 17.7 | 30.3 | 17.7 |
| 38° | 14.8 | 30.3 | 28.8 | 37.7 | 30.3 |
| 39° | 3.0 | 8.9 | 10.3 | 20.7 | 20.7 |
| 40° | 13.3 | 22.2 | 16.2 | 30.3 | 30.3 |
| 42.5° | 10.3 | 16.2 | 11.8 | 25.1 | 20.7 |
| 45° | 4.4 | 4.4 | 3.0 | 16.2 | 11.8 |
| 47.5° | 7.4 | 7.4 | 13.3 | 20.7 | 36.2 |
| 50° | 14.8 | 14.8 | 19.2 | 34.7 | 33.2 |
| 51° | 8.9 | 7.4 | 10.3 | 23.6 | 30.3 |
| 52° | 7.4 | 10.3 | 10.3 | 23.6 | 23.6 |
| 53° | 3.0 | 0.0 | 0.0 | 17.7 | 14.8 |
| 54° | 3.0 | 1.5 | 4.4 | 13.3 | 20.7 |
| 55° | 0.0 | 7.4 | 5.9 | 27.3 | 30.3 |
| 57.5° | 1.5 | 11.8 | 5.9 | 19.2 | 23.6 |
| 60° | 7.4 | 8.9 | 16.2 | 19.2 | 23.6 |
| 61° | 0.0 | 7.4 | 7.4 | 17.7 | 20.7 |
| 62° | 0.0 | 5.9 | 13.3 | 16.2 | 20.7 |
| 63° | 7.4 | 8.9 | 11.8 | 19.2 | 23.6 |



TEST NUMBER: P315536

CATALOG NUMBER: LDA2B20FL9730D010 PINW1MB

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 66° | 4.4 | 11.8 | 14.8 | 19.2 | 17.7 |
| 67.5° | 8.9 | 10.3 | 8.9 | 25.1 | 30.3 |
| 70° | 11.8 | 19.2 | 20.7 | 17.7 | 30.3 |
| 72.5° | 7.4 | 10.3 | 14.8 | 27.3 | 30.3 |
| 75° | 13.3 | 14.8 | 22.2 | 25.1 | 30.3 |
| 77.5° | 10.3 | 14.8 | 14.8 | 16.2 | 30.3 |
| 80° | 4.4 | 13.3 | 14.8 | 16.2 | 8.9 |
| 82.5° | 5.9 | 8.9 | 5.9 | 16.2 | 11.8 |
| 85° | 3.0 | 13.3 | 11.8 | 14.8 | 14.8 |
| 87.5° | 4.4 | 7.4 | 7.4 | 13.3 | 8.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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







| | | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|-----|------|-----|
| 64° | 33.2 | 34.7 | 33.2 | 23.6 | 17.7 | 16.2 | 11.8 | 20.7 | 5.9 | 5.9 | 0.0 |
| 65° | 30.3 | 33.2 | 25.1 | 28.8 | 19.2 | 17.7 | 10.3 | 20.7 | 3.0 | 10.3 | 7.4 |





| | | | | | |
|-----|-----|------|------|------|------|
| 64° | 4.4 | 7.4 | 7.4 | 13.3 | 20.7 |
| 65° | 7.4 | 10.3 | 10.3 | 19.2 | 14.8 |



(END OF REPORT)