

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: P174900

Luminaire Tested: **LDA4A18935D010TE LAR35FL 4LA1 30° Tilt**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P174900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26217)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A18935D010TE LAR35FL 4LA1 30° Tilt  
Description: PORTFOLIO 4" Adjustable Reflector, Self-flanged Trim Ring, 35° Flood Optic, at 30° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1510.7 lumens  
Efficiency: N/A  
Efficacy: 51.9 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.86 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

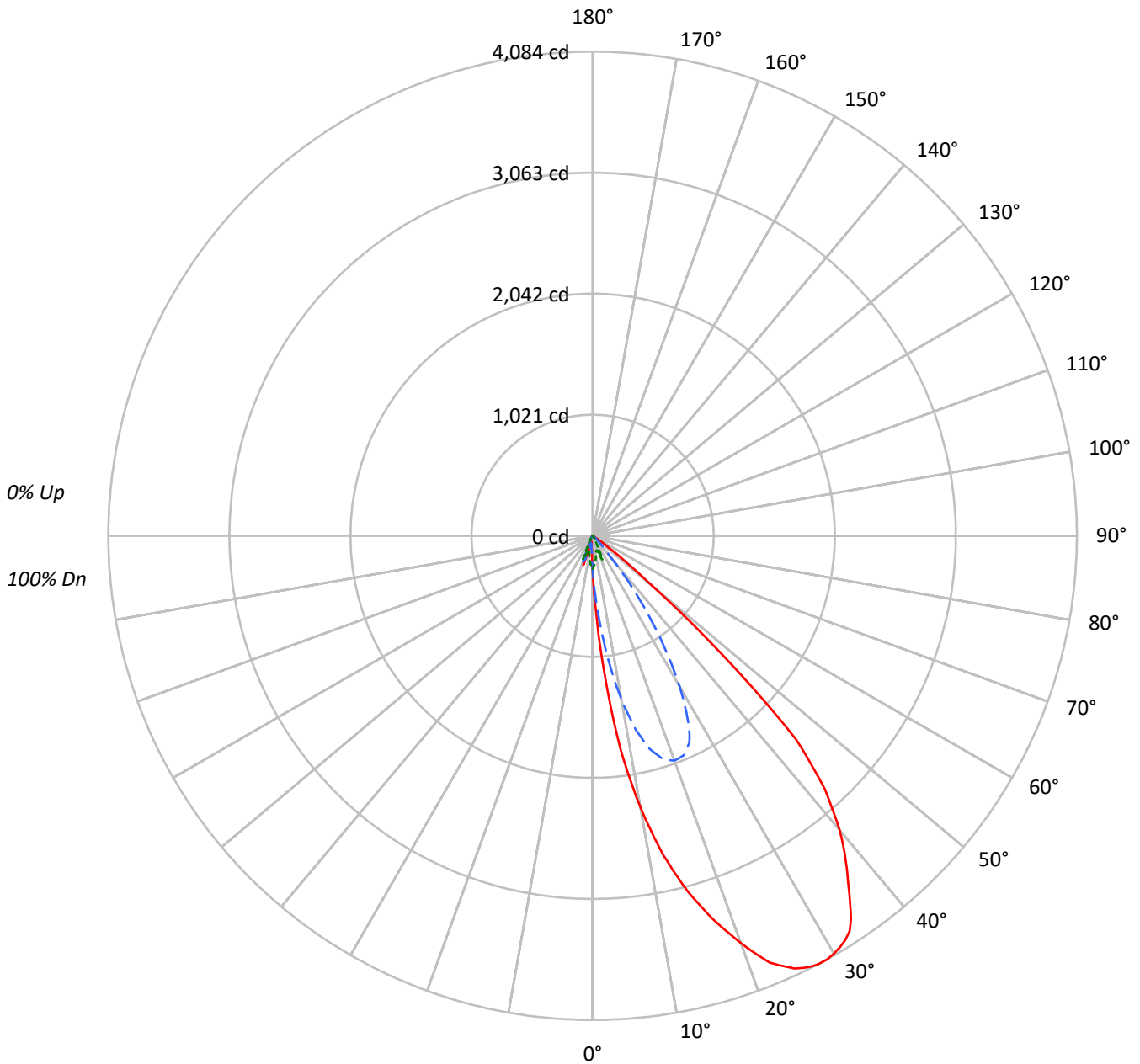
Input Watts (W): 29.12  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99  | 100 | 98  | 96  | 96  | 95  | 94  | 92  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 106 | 101 | 96  | 92  | 104 | 99  | 95  | 91  | 96  | 92  | 89  | 92  | 90  | 87  | 90  | 87  | 85  | 84  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 100 | 92  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 84  | 80  | 86  | 82  | 79  | 83  | 80  | 78  | 76  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 93  | 85  | 78  | 74  | 92  | 84  | 78  | 73  | 81  | 76  | 72  | 79  | 75  | 71  | 77  | 74  | 70  | 69  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 88  | 78  | 71  | 66  | 86  | 77  | 71  | 66  | 75  | 70  | 65  | 73  | 68  | 65  | 72  | 67  | 64  | 62  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 82  | 72  | 65  | 60  | 81  | 71  | 64  | 60  | 69  | 64  | 59  | 68  | 63  | 59  | 66  | 62  | 58  | 57  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 77  | 66  | 59  | 54  | 76  | 66  | 59  | 54  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 53  | 52  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 72  | 61  | 54  | 50  | 71  | 61  | 54  | 49  | 59  | 54  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 47  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 68  | 57  | 50  | 45  | 67  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 53  | 48  | 45  | 43  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 64  | 53  | 46  | 42  | 63  | 52  | 46  | 42  | 51  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 40  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 34598  | 34598 | 34598 |
| 5°  | 145336 | 28936 | 10685 |
| 10° | 291954 | 19902 | 6488  |
| 15° | 397124 | 16166 | 14609 |
| 20° | 479958 | 24546 | 27092 |
| 25° | 548157 | 14590 | 7540  |
| 30° | 579594 | 6865  | 3489  |
| 35° | 570085 | 3027  | 1295  |
| 40° | 521709 | 1497  | 354   |
| 45° | 423184 | 750   | 0     |
| 50° | 125459 | 422   | 0     |
| 55° | 22730  | 473   | 0     |
| 60° | 4268   | 543   | 0     |
| 65° | 1051   | 642   | 0     |
| 70° | 252    | 793   | 0     |
| 75° | 0      | 1048  | 0     |
| 80° | 0      | 2060  | 0     |
| 85° | 0      | 4104  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.0   | 3.4       |
| 10°-20°   | 263.9  | 17.5      |
| 20°-30°   | 462.1  | 30.6      |
| 30°-40°   | 464.1  | 30.7      |
| 40°-50°   | 244.5  | 16.2      |
| 50°-60°   | 20.4   | 1.3       |
| 60°-70°   | 2.1    | 0.1       |
| 70°-80°   | 1.5    | 0.1       |
| 80°-90°   | 1.4    | 0.1       |
| 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°    | 776.9  | 51.4      |
| 0°-40°    | 1241.0 | 82.1      |
| 0°-60°    | 1505.8 | 99.7      |
| 0°-90°    | 1510.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1510.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 280  | 280  | 280 | 280  | 280  |      |
| 5°  | 1174 | 767  | 234 | 107  | 86   | 150  |
| 15° | 3110 | 1861 | 127 | 85   | 114  | 888  |
| 25° | 4028 | 1928 | 107 | 61   | 55   | 1843 |
| 35° | 3786 | 837  | 20  | 11   | 9    | 2341 |
| 45° | 2426 | 86   | 4   | 1    | 0    | 1663 |
| 55° | 106  | 9    | 2   | 1    | 0    | 159  |
| 65° | 4    | 1    | 2   | 1    | 0    | 5    |
| 75° | 0    | 1    | 2   | 1    | 0    | 0    |
| 85° | 0    | 1    | 3   | 1    | 0    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |



TEST NUMBER: P174900

CATALOG NUMBER: LDA4A18935D010TE LAR35FL 4LA1 30° Tilt

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5°  | 22.5°  | 45°    | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 0°    | 280.5  | 280.5  | 280.5  | 280.5  | 280.5  | 280.5  | 280.5  | 280.5  | 280.5  | 280.5  | 280.5 |
| 2.5°  | 636.5  | 637.2  | 638.0  | 643.0  | 631.5  | 628.6  | 623.6  | 616.4  | 592.6  | 494.8  | 373.3 |
| 5°    | 1173.8 | 1182.4 | 1180.3 | 1173.1 | 1155.1 | 1145.0 | 1129.9 | 1114.1 | 1049.4 | 767.4  | 463.2 |
| 7.5°  | 1824.0 | 1840.5 | 1836.9 | 1826.1 | 1795.9 | 1782.2 | 1744.1 | 1723.3 | 1625.5 | 1089.6 | 530.1 |
| 10°   | 2331.0 | 2374.9 | 2375.6 | 2365.5 | 2320.2 | 2300.8 | 2261.2 | 2223.8 | 2100.1 | 1405.4 | 561.0 |
| 12.5° | 2759.7 | 2760.4 | 2794.2 | 2786.3 | 2733.8 | 2725.2 | 2692.1 | 2636.0 | 2505.8 | 1668.6 | 561.0 |
| 15°   | 3109.9 | 3157.4 | 3149.5 | 3140.9 | 3085.5 | 3074.0 | 3042.3 | 2990.5 | 2838.8 | 1861.4 | 533.7 |
| 17.5° | 3399.1 | 3441.5 | 3429.3 | 3419.9 | 3364.5 | 3339.4 | 3304.8 | 3243.0 | 3076.1 | 1975.7 | 476.8 |
| 20°   | 3656.5 | 3696.8 | 3672.4 | 3655.8 | 3581.7 | 3550.8 | 3500.5 | 3429.3 | 3238.7 | 2018.2 | 410.7 |
| 22.5° | 3896.8 | 3939.2 | 3908.3 | 3885.3 | 3789.6 | 3729.9 | 3658.7 | 3568.8 | 3344.4 | 2004.5 | 375.4 |
| 25°   | 4027.7 | 4083.1 | 4053.6 | 4035.6 | 3944.2 | 3874.5 | 3780.3 | 3664.5 | 3404.8 | 1927.5 | 282.7 |
| 26°   | 4056.4 | 4114.7 | 4086.6 | 4070.8 | 3978.0 | 3904.0 | 3803.3 | 3681.7 | 3409.9 | 1864.2 | 217.9 |
| 27°   | 4076.6 | 4141.3 | 4108.9 | 4088.8 | 3993.1 | 3914.0 | 3809.0 | 3682.4 | 3401.9 | 1778.6 | 173.3 |
| 28°   | 4084.5 | 4155.7 | 4116.1 | 4091.7 | 3992.4 | 3906.1 | 3794.6 | 3666.6 | 3381.1 | 1680.1 | 147.4 |
| 29°   | 4083.8 | 4161.4 | 4115.4 | 4088.8 | 3983.1 | 3887.4 | 3773.1 | 3644.3 | 3352.3 | 1577.3 | 133.1 |
| 30°   | 4069.4 | 4154.3 | 4108.2 | 4074.4 | 3960.8 | 3857.9 | 3742.1 | 3613.4 | 3320.0 | 1465.1 | 118.7 |
| 31°   | 4050.0 | 4137.0 | 4088.8 | 4047.1 | 3924.1 | 3812.6 | 3699.0 | 3571.7 | 3276.8 | 1345.0 | 108.6 |
| 32°   | 4021.9 | 4108.9 | 4055.7 | 4001.1 | 3872.3 | 3755.8 | 3646.5 | 3522.8 | 3224.3 | 1218.4 | 96.4  |
| 33°   | 3977.3 | 4054.3 | 3992.4 | 3929.1 | 3800.4 | 3691.1 | 3587.5 | 3466.0 | 3164.6 | 1086.8 | 83.4  |
| 34°   | 3896.1 | 3963.7 | 3899.6 | 3835.6 | 3720.6 | 3619.1 | 3519.9 | 3399.1 | 3094.8 | 965.2  | 71.9  |
| 35°   | 3786.0 | 3843.5 | 3786.0 | 3732.1 | 3630.7 | 3536.4 | 3441.5 | 3323.5 | 3010.7 | 837.2  | 61.9  |
| 36°   | 3673.8 | 3724.2 | 3670.9 | 3628.5 | 3531.4 | 3447.3 | 3358.8 | 3236.5 | 2915.7 | 715.6  | 54.7  |
| 37°   | 3568.8 | 3614.1 | 3565.2 | 3522.8 | 3439.3 | 3353.8 | 3266.0 | 3140.9 | 2810.7 | 599.1  | 45.3  |
| 38°   | 3464.5 | 3504.8 | 3463.1 | 3415.6 | 3338.7 | 3251.6 | 3163.2 | 3035.1 | 2693.5 | 489.1  | 38.8  |
| 39°   | 3355.9 | 3389.0 | 3348.7 | 3300.5 | 3222.1 | 3135.8 | 3045.2 | 2912.9 | 2559.0 | 374.7  | 33.8  |
| 40°   | 3240.1 | 3271.0 | 3221.4 | 3178.3 | 3099.9 | 3011.4 | 2918.6 | 2781.3 | 2413.0 | 251.0  | 28.8  |
| 42.5° | 2897.8 | 2916.5 | 2874.7 | 2815.1 | 2736.7 | 2639.6 | 2527.4 | 2373.4 | 1946.2 | 132.3  | 20.1  |
| 45°   | 2426.0 | 2429.5 | 2397.2 | 2288.6 | 2183.6 | 2033.3 | 1865.7 | 1634.8 | 1131.3 | 86.3   | 12.9  |
| 47.5° | 1464.3 | 1455.7 | 1404.7 | 1311.9 | 1214.1 | 1055.1 | 898.3  | 739.4  | 439.4  | 50.3   | 8.6   |
| 50°   | 653.8  | 643.7  | 618.5  | 570.3  | 513.5  | 454.6  | 384.8  | 325.8  | 213.6  | 27.3   | 5.8   |
| 51°   | 474.0  | 465.3  | 446.6  | 410.0  | 368.2  | 326.5  | 278.3  | 238.1  | 159.7  | 22.3   | 5.0   |
| 52°   | 333.0  | 328.0  | 315.0  | 289.1  | 266.1  | 233.7  | 200.7  | 175.5  | 120.1  | 18.0   | 3.6   |
| 53°   | 232.3  | 228.7  | 220.8  | 203.5  | 189.9  | 166.1  | 145.3  | 125.1  | 87.0   | 14.4   | 3.6   |
| 54°   | 157.5  | 155.4  | 150.3  | 138.8  | 127.3  | 114.4  | 99.3   | 87.7   | 61.1   | 11.5   | 2.9   |
| 55°   | 105.7  | 104.3  | 100.0  | 94.2   | 87.7   | 79.8   | 69.8   | 61.1   | 43.2   | 9.3    | 2.2   |
| 57.5° | 38.8   | 38.8   | 37.4   | 35.2   | 33.1   | 30.9   | 28.0   | 25.2   | 20.1   | 5.8    | 2.2   |
| 60°   | 17.3   | 16.5   | 16.5   | 15.8   | 15.1   | 14.4   | 13.7   | 12.2   | 10.1   | 3.6    | 2.2   |
| 61°   | 12.9   | 12.9   | 12.2   | 11.5   | 11.5   | 10.8   | 10.1   | 9.3    | 7.9    | 2.9    | 2.2   |
| 62°   | 9.3    | 9.3    | 9.3    | 8.6    | 8.6    | 7.9    | 7.9    | 7.2    | 5.8    | 2.2    | 2.2   |
| 63°   | 7.2    | 7.2    | 7.2    | 6.5    | 6.5    | 6.5    | 5.8    | 5.8    | 4.3    | 2.2    | 2.2   |
| 64°   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 4.3    | 4.3    | 3.6    | 1.4    | 2.2   |
| 65°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 2.9    | 1.4    | 2.2   |
| 66°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.2    | 2.2    | 2.2    | 1.4    | 2.2   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 22.5° | 45° | 67.5° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-------|-----|-------|
| 72.5° | 0.7 | 0.7  | 0.7 | 0.7  | 0.7 | 0.7   | 0.7 | 0.7   | 0.7   | 1.4 | 2.2   |
| 75°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.7 | 0.7   | 0.7   | 1.4 | 2.2   |
| 77.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.7   | 0.7 | 0.7   | 0.7   | 1.4 | 2.2   |
| 80°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.7   | 0.7 | 0.7   | 0.7   | 1.4 | 2.2   |
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.7 | 0.7   | 0.7   | 1.4 | 2.2   |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.7 | 0.7   | 0.7   | 1.4 | 2.2   |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.7 | 0.7   | 0.7   | 1.4 | 2.2   |
| 90°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0   | 0.0 | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|--------|-------|
| 0°    | 280.5 | 280.5  | 280.5 | 280.5  | 280.5 |
| 2.5°  | 258.2 | 180.5  | 143.8 | 130.2  | 125.9 |
| 5°    | 233.7 | 135.2  | 107.2 | 92.1   | 86.3  |
| 7.5°  | 196.3 | 111.5  | 80.6  | 66.9   | 62.6  |
| 10°   | 158.9 | 92.1   | 65.4  | 54.7   | 51.8  |
| 12.5° | 135.9 | 79.8   | 61.1  | 56.8   | 56.8  |
| 15°   | 126.6 | 84.1   | 84.9  | 102.1  | 114.4 |
| 17.5° | 130.2 | 131.6  | 205.7 | 250.3  | 258.2 |
| 20°   | 187.0 | 236.6  | 234.5 | 212.9  | 206.4 |
| 22.5° | 216.5 | 156.1  | 118.0 | 97.1   | 93.5  |
| 25°   | 107.2 | 71.2   | 61.1  | 56.1   | 55.4  |
| 26°   | 81.3  | 59.7   | 53.2  | 50.3   | 48.9  |
| 27°   | 67.6  | 52.5   | 47.5  | 43.9   | 42.4  |
| 28°   | 60.4  | 46.7   | 41.0  | 37.4   | 36.0  |
| 29°   | 54.7  | 40.3   | 34.5  | 30.9   | 30.2  |
| 30°   | 48.2  | 33.8   | 28.8  | 25.2   | 24.5  |
| 31°   | 41.0  | 28.0   | 23.0  | 20.9   | 19.4  |
| 32°   | 34.5  | 23.0   | 18.7  | 16.5   | 15.1  |
| 33°   | 28.8  | 18.7   | 15.8  | 13.7   | 12.2  |
| 34°   | 24.5  | 15.8   | 12.9  | 10.8   | 10.1  |
| 35°   | 20.1  | 12.9   | 10.8  | 9.3    | 8.6   |
| 36°   | 17.3  | 11.5   | 8.6   | 7.2    | 6.5   |
| 37°   | 15.1  | 9.3    | 7.2   | 5.8    | 5.8   |
| 38°   | 12.9  | 7.9    | 6.5   | 4.3    | 4.3   |
| 39°   | 10.8  | 6.5    | 5.0   | 3.6    | 3.6   |
| 40°   | 9.3   | 5.8    | 4.3   | 2.9    | 2.2   |
| 42.5° | 6.5   | 3.6    | 2.9   | 1.4    | 0.7   |
| 45°   | 4.3   | 2.9    | 1.4   | 0.7    | 0.0   |
| 47.5° | 2.9   | 2.2    | 1.4   | 0.7    | 0.0   |
| 50°   | 2.2   | 2.2    | 1.4   | 0.0    | 0.0   |
| 51°   | 2.2   | 1.4    | 1.4   | 0.0    | 0.0   |
| 52°   | 2.2   | 1.4    | 0.7   | 0.0    | 0.0   |
| 53°   | 2.2   | 1.4    | 0.7   | 0.0    | 0.0   |
| 54°   | 2.2   | 1.4    | 0.7   | 0.0    | 0.0   |
| 55°   | 2.2   | 1.4    | 0.7   | 0.0    | 0.0   |
| 57.5° | 2.2   | 1.4    | 0.7   | 0.0    | 0.0   |
| 60°   | 2.2   | 1.4    | 1.4   | 0.0    | 0.0   |
| 61°   | 2.2   | 2.2    | 1.4   | 0.0    | 0.0   |
| 62°   | 2.2   | 2.2    | 1.4   | 0.0    | 0.0   |
| 63°   | 2.2   | 2.2    | 1.4   | 0.0    | 0.0   |
| 64°   | 2.2   | 2.2    | 1.4   | 0.7    | 0.0   |
| 65°   | 2.2   | 2.2    | 1.4   | 0.7    | 0.0   |
| 66°   | 2.2   | 2.2    | 1.4   | 0.7    | 0.0   |





TEST NUMBER: P174900

CATALOG NUMBER: LDA4A18935D010TE LAR35FL 4LA1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 72.5° | 2.2 | 2.2    | 1.4  | 0.7    | 0.0  |
| 75°   | 2.2 | 2.2    | 1.4  | 0.7    | 0.0  |
| 77.5° | 2.9 | 2.2    | 1.4  | 0.7    | 0.0  |
| 80°   | 2.9 | 2.2    | 1.4  | 0.7    | 0.0  |
| 82.5° | 2.9 | 2.2    | 1.4  | 0.7    | 0.0  |
| 85°   | 2.9 | 2.2    | 1.4  | 0.7    | 0.0  |
| 87.5° | 2.9 | 2.2    | 1.4  | 0.7    | 0.0  |
| 90°   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |



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







|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.2 |
| 70°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 2.2 |







|       |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|
| 67.5° | 2.2 | 2.2 | 1.4 | 0.7 | 0.0 |
| 70°   | 2.2 | 2.2 | 1.4 | 0.7 | 0.0 |



(END OF REPORT)