

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: P174912

Luminaire Tested: **LDA4A13835D010TE LAR35FL 4LA1 30° Tilt**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P174912
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: LDA4A13835D010TE 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 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1487.5 lumens
Efficiency: N/A
Efficacy: 66.8 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

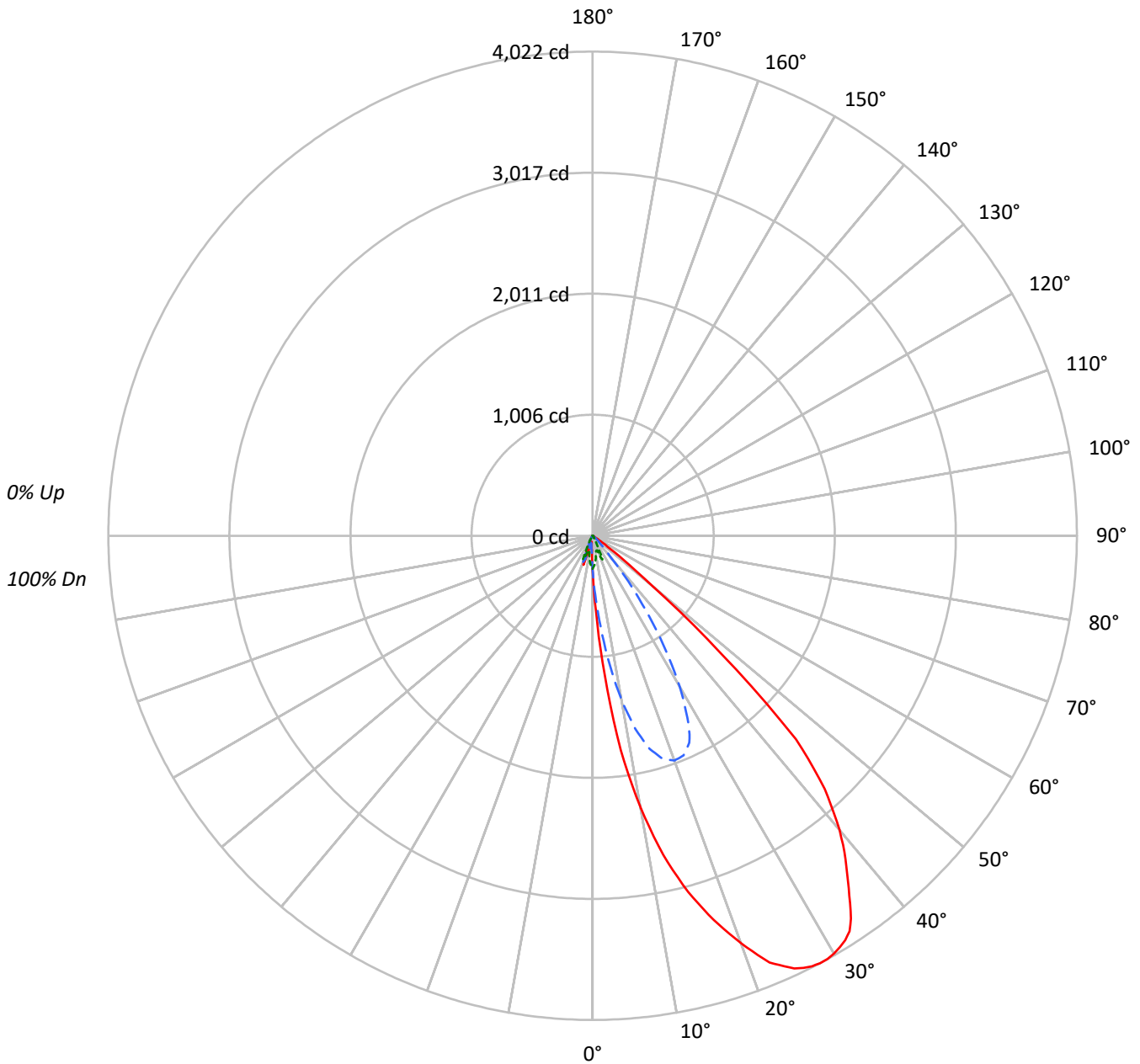
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P174912

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Luminous Intensity Polar Plot





TEST NUMBER: P174912

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 |
| RC | 80 | | | | 70 | | | | 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 | | | 100 |
| 1 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99 | 100 | 98 | 96 | 96 | 95 | 94 | 92 | | | 92 |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 92 | 90 | 87 | 90 | 87 | 85 | 84 | | | 84 |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 | | | 76 |
| 4 | 93 | 85 | 78 | 74 | 92 | 84 | 78 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 74 | 70 | 69 | | | 69 |
| 5 | 88 | 78 | 71 | 66 | 86 | 77 | 71 | 66 | 75 | 70 | 65 | 73 | 68 | 65 | 72 | 67 | 64 | 62 | | | 62 |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 64 | 60 | 69 | 64 | 59 | 68 | 63 | 59 | 66 | 62 | 58 | 57 | | | 57 |
| 7 | 77 | 66 | 59 | 54 | 76 | 66 | 59 | 54 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 53 | 52 | | | 52 |
| 8 | 72 | 61 | 54 | 50 | 71 | 61 | 54 | 49 | 59 | 54 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 47 | | | 47 |
| 9 | 68 | 57 | 50 | 45 | 67 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 | | | 43 |
| 10 | 64 | 53 | 46 | 42 | 63 | 52 | 46 | 42 | 51 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 40 | | | 40 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 34068 | 34068 | 34068 |
| 5° | 143107 | 28503 | 10524 |
| 10° | 287483 | 19601 | 6388 |
| 15° | 391046 | 15911 | 14379 |
| 20° | 472608 | 24165 | 26685 |
| 25° | 539760 | 14358 | 7417 |
| 30° | 570706 | 6751 | 3432 |
| 35° | 561352 | 2981 | 1280 |
| 40° | 513722 | 1481 | 338 |
| 45° | 416695 | 733 | 0 |
| 50° | 123540 | 403 | 0 |
| 55° | 22386 | 452 | 0 |
| 60° | 4194 | 518 | 0 |
| 65° | 1022 | 613 | 0 |
| 70° | 252 | 757 | 0 |
| 75° | 0 | 1001 | 0 |
| 80° | 0 | 1989 | 0 |
| 85° | 0 | 3963 | 0 |



TEST NUMBER: P174912

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 50.2 | 3.4 |
| 10°-20° | 259.8 | 17.5 |
| 20°-30° | 455.0 | 30.6 |
| 30°-40° | 457.0 | 30.7 |
| 40°-50° | 240.7 | 16.2 |
| 50°-60° | 20.0 | 1.3 |
| 60°-70° | 2.0 | 0.1 |
| 70°-80° | 1.4 | 0.1 |
| 80°-90° | 1.3 | 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° | 765.0 | 51.4 |
| 0°-40° | 1222.0 | 82.1 |
| 0°-60° | 1482.7 | 99.7 |
| 0°-90° | 1487.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1487.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 276 | 276 | 276 | 276 | 276 | |
| 5° | 1156 | 756 | 230 | 106 | 85 | 148 |
| 15° | 3062 | 1833 | 125 | 84 | 113 | 874 |
| 25° | 3966 | 1898 | 106 | 60 | 54 | 1815 |
| 35° | 3728 | 824 | 20 | 11 | 8 | 2305 |
| 45° | 2389 | 85 | 4 | 1 | 0 | 1637 |
| 55° | 104 | 9 | 2 | 1 | 0 | 156 |
| 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: P174912

CATALOG NUMBER: LDA4A13835D010TE 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° | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 |
| 2.5° | 626.8 | 627.5 | 628.2 | 633.1 | 621.8 | 619.0 | 614.0 | 606.9 | 583.6 | 487.2 | 367.6 |
| 5° | 1155.8 | 1164.3 | 1162.2 | 1155.1 | 1137.4 | 1127.5 | 1112.6 | 1097.0 | 1033.3 | 755.7 | 456.1 |
| 7.5° | 1796.0 | 1812.3 | 1808.8 | 1798.1 | 1768.4 | 1754.9 | 1717.4 | 1696.9 | 1600.5 | 1072.9 | 521.9 |
| 10° | 2295.3 | 2338.5 | 2339.2 | 2329.3 | 2284.7 | 2265.6 | 2226.6 | 2189.8 | 2068.0 | 1383.8 | 552.4 |
| 12.5° | 2717.4 | 2718.1 | 2751.4 | 2743.6 | 2691.9 | 2683.4 | 2650.8 | 2595.6 | 2467.4 | 1643.0 | 552.4 |
| 15° | 3062.3 | 3109.0 | 3101.2 | 3092.7 | 3038.2 | 3026.9 | 2995.7 | 2944.7 | 2795.3 | 1832.8 | 525.5 |
| 17.5° | 3347.0 | 3388.8 | 3376.7 | 3367.5 | 3313.0 | 3288.2 | 3254.2 | 3193.3 | 3029.0 | 1945.4 | 469.5 |
| 20° | 3600.5 | 3640.2 | 3616.1 | 3599.8 | 3526.9 | 3496.4 | 3446.8 | 3376.7 | 3189.1 | 1987.2 | 404.4 |
| 22.5° | 3837.1 | 3878.8 | 3848.4 | 3825.7 | 3731.5 | 3672.8 | 3602.6 | 3514.1 | 3293.2 | 1973.8 | 369.7 |
| 25° | 3966.0 | 4020.5 | 3991.5 | 3973.7 | 3883.8 | 3815.1 | 3722.3 | 3608.3 | 3352.6 | 1898.0 | 278.3 |
| 26° | 3994.3 | 4051.6 | 4024.0 | 4008.4 | 3917.1 | 3844.1 | 3745.0 | 3625.3 | 3357.6 | 1835.7 | 214.6 |
| 27° | 4014.1 | 4077.9 | 4046.0 | 4026.2 | 3932.0 | 3854.1 | 3750.7 | 3626.0 | 3349.8 | 1751.4 | 170.7 |
| 28° | 4021.9 | 4092.0 | 4053.1 | 4029.0 | 3931.3 | 3846.3 | 3736.5 | 3610.4 | 3329.3 | 1654.4 | 145.2 |
| 29° | 4021.2 | 4097.7 | 4052.4 | 4026.2 | 3922.0 | 3827.9 | 3715.3 | 3588.5 | 3300.9 | 1553.1 | 131.0 |
| 30° | 4007.0 | 4090.6 | 4045.3 | 4012.0 | 3900.1 | 3798.8 | 3684.8 | 3558.0 | 3269.1 | 1442.6 | 116.9 |
| 31° | 3987.9 | 4073.6 | 4026.2 | 3985.1 | 3864.0 | 3754.2 | 3642.3 | 3517.0 | 3226.6 | 1324.3 | 106.9 |
| 32° | 3960.3 | 4046.0 | 3993.6 | 3939.8 | 3813.0 | 3698.3 | 3590.6 | 3468.8 | 3174.9 | 1199.7 | 94.9 |
| 33° | 3916.4 | 3992.2 | 3931.3 | 3868.9 | 3742.2 | 3634.5 | 3532.5 | 3412.8 | 3116.1 | 1070.1 | 82.2 |
| 34° | 3836.4 | 3902.9 | 3839.9 | 3776.9 | 3663.6 | 3563.7 | 3466.0 | 3347.0 | 3047.4 | 950.4 | 70.8 |
| 35° | 3728.0 | 3784.7 | 3728.0 | 3674.9 | 3575.0 | 3482.3 | 3388.8 | 3272.6 | 2964.6 | 824.4 | 60.9 |
| 36° | 3617.5 | 3667.1 | 3614.7 | 3572.9 | 3477.3 | 3394.4 | 3307.3 | 3186.9 | 2871.1 | 704.7 | 53.8 |
| 37° | 3514.1 | 3558.7 | 3510.6 | 3468.8 | 3386.6 | 3302.4 | 3216.0 | 3092.7 | 2767.7 | 589.9 | 44.6 |
| 38° | 3411.4 | 3451.1 | 3410.0 | 3363.3 | 3287.5 | 3201.8 | 3114.7 | 2988.6 | 2652.2 | 481.6 | 38.2 |
| 39° | 3304.5 | 3337.1 | 3297.4 | 3250.0 | 3172.8 | 3087.8 | 2998.5 | 2868.2 | 2519.8 | 369.0 | 33.3 |
| 40° | 3190.5 | 3220.9 | 3172.1 | 3129.6 | 3052.4 | 2965.3 | 2873.9 | 2738.6 | 2376.0 | 247.2 | 28.3 |
| 42.5° | 2853.4 | 2871.8 | 2830.7 | 2771.9 | 2694.7 | 2599.1 | 2488.6 | 2337.1 | 1916.4 | 130.3 | 19.8 |
| 45° | 2388.8 | 2392.3 | 2360.5 | 2253.5 | 2150.1 | 2002.1 | 1837.1 | 1609.8 | 1114.0 | 85.0 | 12.7 |
| 47.5° | 1441.9 | 1433.4 | 1383.1 | 1291.8 | 1195.5 | 1038.9 | 884.5 | 728.0 | 432.7 | 49.6 | 8.5 |
| 50° | 643.8 | 633.8 | 609.1 | 561.6 | 505.7 | 447.6 | 378.9 | 320.8 | 210.3 | 26.9 | 5.7 |
| 51° | 466.7 | 458.2 | 439.8 | 403.7 | 362.6 | 321.5 | 274.1 | 234.4 | 157.2 | 22.0 | 5.0 |
| 52° | 327.9 | 322.9 | 310.2 | 284.7 | 262.0 | 230.2 | 197.6 | 172.8 | 118.3 | 17.7 | 3.5 |
| 53° | 228.8 | 225.2 | 217.4 | 200.4 | 187.0 | 163.6 | 143.1 | 123.2 | 85.7 | 14.2 | 3.5 |
| 54° | 155.1 | 153.0 | 148.0 | 136.7 | 125.4 | 112.6 | 97.7 | 86.4 | 60.2 | 11.3 | 2.8 |
| 55° | 104.1 | 102.7 | 98.4 | 92.8 | 86.4 | 78.6 | 68.7 | 60.2 | 42.5 | 9.2 | 2.1 |
| 57.5° | 38.2 | 38.2 | 36.8 | 34.7 | 32.6 | 30.5 | 27.6 | 24.8 | 19.8 | 5.7 | 2.1 |
| 60° | 17.0 | 16.3 | 16.3 | 15.6 | 14.9 | 14.2 | 13.5 | 12.0 | 9.9 | 3.5 | 2.1 |
| 61° | 12.7 | 12.7 | 12.0 | 11.3 | 11.3 | 10.6 | 9.9 | 9.2 | 7.8 | 2.8 | 2.1 |
| 62° | 9.2 | 9.2 | 9.2 | 8.5 | 8.5 | 7.8 | 7.8 | 7.1 | 5.7 | 2.1 | 2.1 |
| 63° | 7.1 | 7.1 | 7.1 | 6.4 | 6.4 | 6.4 | 5.7 | 5.7 | 4.2 | 2.1 | 2.1 |
| 64° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.2 | 4.2 | 3.5 | 1.4 | 2.1 |
| 65° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 2.8 | 1.4 | 2.1 |
| 66° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.1 | 2.1 | 2.1 | 1.4 | 2.1 |



TEST NUMBER: P174912

CATALOG NUMBER: LDA4A13835D010TE LAR35FL 4LA1 30° Tilt

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 | 2.1 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 |
| 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: P174912

CATALOG NUMBER: LDA4A13835D010TE LAR35FL 4LA1 30° Tilt

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|--------|-------|--------|-------|
| 0° | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 |
| 2.5° | 254.2 | 177.8 | 141.6 | 128.2 | 123.9 |
| 5° | 230.2 | 133.1 | 105.5 | 90.7 | 85.0 |
| 7.5° | 193.3 | 109.8 | 79.3 | 65.9 | 61.6 |
| 10° | 156.5 | 90.7 | 64.4 | 53.8 | 51.0 |
| 12.5° | 133.9 | 78.6 | 60.2 | 55.9 | 55.9 |
| 15° | 124.6 | 82.9 | 83.6 | 100.6 | 112.6 |
| 17.5° | 128.2 | 129.6 | 202.5 | 246.5 | 254.2 |
| 20° | 184.1 | 233.0 | 230.9 | 209.6 | 203.3 |
| 22.5° | 213.2 | 153.7 | 116.1 | 95.6 | 92.1 |
| 25° | 105.5 | 70.1 | 60.2 | 55.2 | 54.5 |
| 26° | 80.0 | 58.8 | 52.4 | 49.6 | 48.2 |
| 27° | 66.6 | 51.7 | 46.7 | 43.2 | 41.8 |
| 28° | 59.5 | 46.0 | 40.4 | 36.8 | 35.4 |
| 29° | 53.8 | 39.7 | 34.0 | 30.5 | 29.7 |
| 30° | 47.4 | 33.3 | 28.3 | 24.8 | 24.1 |
| 31° | 40.4 | 27.6 | 22.7 | 20.5 | 19.1 |
| 32° | 34.0 | 22.7 | 18.4 | 16.3 | 14.9 |
| 33° | 28.3 | 18.4 | 15.6 | 13.5 | 12.0 |
| 34° | 24.1 | 15.6 | 12.7 | 10.6 | 9.9 |
| 35° | 19.8 | 12.7 | 10.6 | 9.2 | 8.5 |
| 36° | 17.0 | 11.3 | 8.5 | 7.1 | 6.4 |
| 37° | 14.9 | 9.2 | 7.1 | 5.7 | 5.7 |
| 38° | 12.7 | 7.8 | 6.4 | 4.2 | 4.2 |
| 39° | 10.6 | 6.4 | 5.0 | 3.5 | 3.5 |
| 40° | 9.2 | 5.7 | 4.2 | 2.8 | 2.1 |
| 42.5° | 6.4 | 3.5 | 2.8 | 1.4 | 0.7 |
| 45° | 4.2 | 2.8 | 1.4 | 0.7 | 0.0 |
| 47.5° | 2.8 | 2.1 | 1.4 | 0.7 | 0.0 |
| 50° | 2.1 | 2.1 | 1.4 | 0.0 | 0.0 |
| 51° | 2.1 | 1.4 | 1.4 | 0.0 | 0.0 |
| 52° | 2.1 | 1.4 | 0.7 | 0.0 | 0.0 |
| 53° | 2.1 | 1.4 | 0.7 | 0.0 | 0.0 |
| 54° | 2.1 | 1.4 | 0.7 | 0.0 | 0.0 |
| 55° | 2.1 | 1.4 | 0.7 | 0.0 | 0.0 |
| 57.5° | 2.1 | 1.4 | 0.7 | 0.0 | 0.0 |
| 60° | 2.1 | 1.4 | 1.4 | 0.0 | 0.0 |
| 61° | 2.1 | 2.1 | 1.4 | 0.0 | 0.0 |
| 62° | 2.1 | 2.1 | 1.4 | 0.0 | 0.0 |
| 63° | 2.1 | 2.1 | 1.4 | 0.0 | 0.0 |
| 64° | 2.1 | 2.1 | 1.4 | 0.7 | 0.0 |
| 65° | 2.1 | 2.1 | 1.4 | 0.7 | 0.0 |
| 66° | 2.1 | 2.1 | 1.4 | 0.7 | 0.0 |



TEST NUMBER: P174912

CATALOG NUMBER: LDA4A13835D010TE LAR35FL 4LA1 30° Tilt

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 72.5° | 2.1 | 2.1 | 1.4 | 0.7 | 0.0 |
| 75° | 2.1 | 2.1 | 1.4 | 0.7 | 0.0 |
| 77.5° | 2.8 | 2.1 | 1.4 | 0.7 | 0.0 |
| 80° | 2.8 | 2.1 | 1.4 | 0.7 | 0.0 |
| 82.5° | 2.8 | 2.1 | 1.4 | 0.7 | 0.0 |
| 85° | 2.8 | 2.1 | 1.4 | 0.7 | 0.0 |
| 87.5° | 2.8 | 2.1 | 1.4 | 0.7 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By E9808895 / USPTCWHP6082093





— 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 | 2.1 |
| 70° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 2.1 |





| | | | | | |
|-------|-----|-----|-----|-----|-----|
| 67.5° | 2.1 | 2.1 | 1.4 | 0.7 | 0.0 |
| 70° | 2.1 | 2.1 | 1.4 | 0.7 | 0.0 |



(END OF REPORT)