

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: P174916

Luminaire Tested: **LDA4A13935D010TE LAR35FL 4LA1 30° Tilt**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P174916
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: LDA4A13935D010TE 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: 1219.4 lumens
Efficiency: N/A
Efficacy: 54.8 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

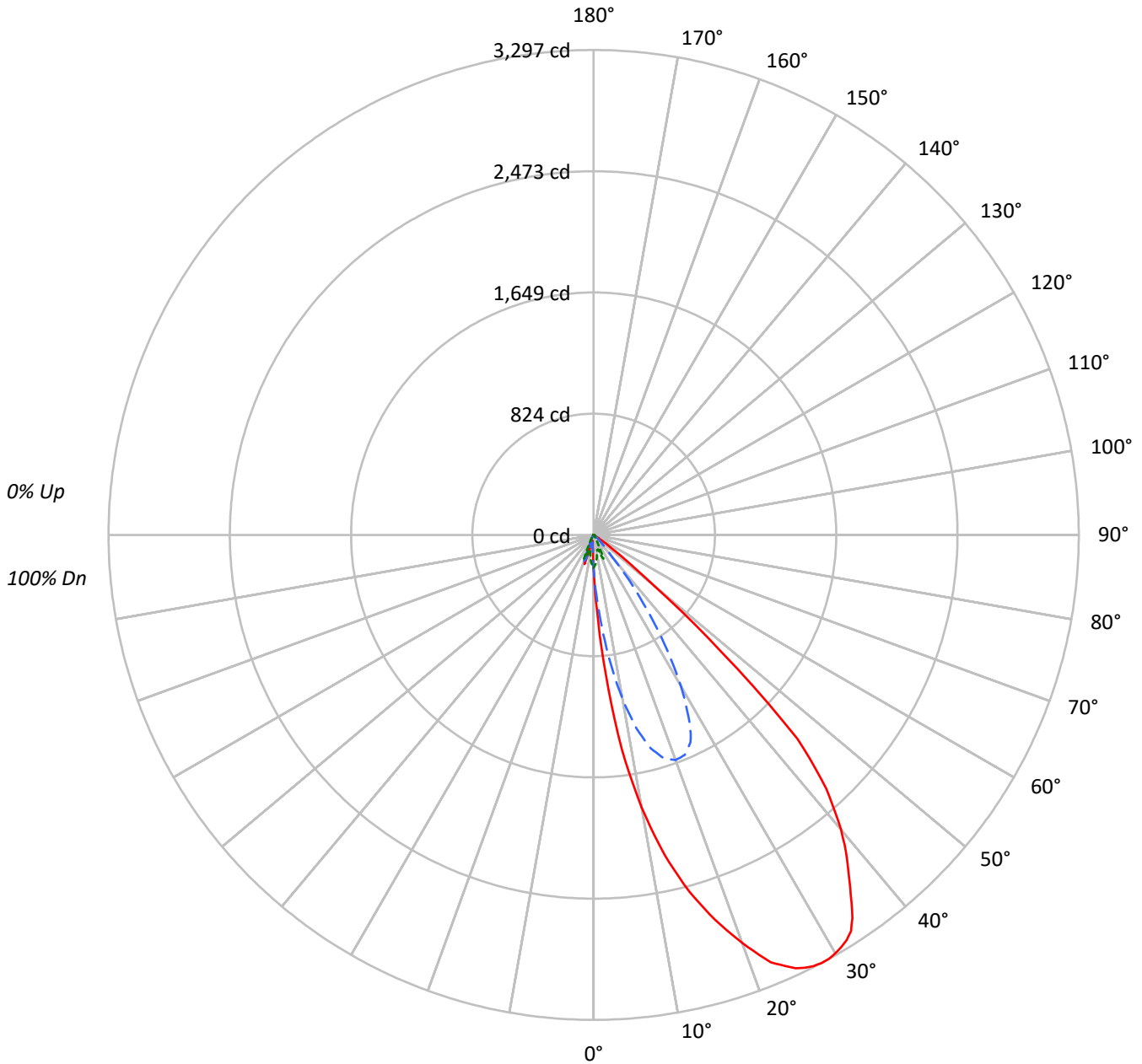
Input Watts (W): 22.27
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P174916

CATALOG NUMBER: LDA4A13935D010TE LAR35FL 4LA1 30° Tilt

Luminous Intensity Polar Plot





TEST NUMBER: P174916

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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° | 27925 | 27925 | 27925 |
| 5° | 117304 | 23364 | 8630 |
| 10° | 235655 | 16069 | 5235 |
| 15° | 320544 | 13051 | 11786 |
| 20° | 387406 | 19807 | 21868 |
| 25° | 442451 | 11772 | 6084 |
| 30° | 467817 | 5540 | 2806 |
| 35° | 460149 | 2454 | 1054 |
| 40° | 421106 | 1208 | 274 |
| 45° | 341565 | 611 | 0 |
| 50° | 101261 | 326 | 0 |
| 55° | 18343 | 366 | 0 |
| 60° | 3429 | 419 | 0 |
| 65° | 846 | 496 | 0 |
| 70° | 216 | 613 | 0 |
| 75° | 0 | 810 | 0 |
| 80° | 0 | 1634 | 0 |
| 85° | 0 | 3255 | 0 |



TEST NUMBER: P174916

CATALOG NUMBER: LDA4A13935D010TE LAR35FL 4LA1 30° Tilt

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.2 | 3.4 |
| 10°-20° | 213.0 | 17.5 |
| 20°-30° | 373.0 | 30.6 |
| 30°-40° | 374.6 | 30.7 |
| 40°-50° | 197.3 | 16.2 |
| 50°-60° | 16.4 | 1.3 |
| 60°-70° | 1.7 | 0.1 |
| 70°-80° | 1.2 | 0.1 |
| 80°-90° | 1.1 | 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° | 627.1 | 51.4 |
| 0°-40° | 1001.7 | 82.1 |
| 0°-60° | 1215.4 | 99.7 |
| 0°-90° | 1219.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1219.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 226 | 226 | 226 | 226 | 226 | |
| 5° | 947 | 619 | 189 | 86 | 70 | 121 |
| 15° | 2510 | 1502 | 102 | 68 | 92 | 717 |
| 25° | 3251 | 1556 | 86 | 49 | 45 | 1488 |
| 35° | 3056 | 676 | 16 | 9 | 7 | 1890 |
| 45° | 1958 | 70 | 4 | 1 | 0 | 1342 |
| 55° | 85 | 8 | 2 | 1 | 0 | 128 |
| 65° | 3 | 1 | 2 | 1 | 0 | 4 |
| 75° | 0 | 1 | 2 | 1 | 0 | 0 |
| 85° | 0 | 1 | 2 | 1 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P174916

CATALOG NUMBER: LDA4A13935D010TE 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° | 226.4 | 226.4 | 226.4 | 226.4 | 226.4 | 226.4 | 226.4 | 226.4 | 226.4 | 226.4 | 226.4 |
| 2.5° | 513.8 | 514.4 | 514.9 | 519.0 | 509.7 | 507.4 | 503.3 | 497.5 | 478.4 | 399.4 | 301.3 |
| 5° | 947.4 | 954.4 | 952.7 | 946.8 | 932.3 | 924.2 | 912.0 | 899.2 | 847.0 | 619.4 | 373.9 |
| 7.5° | 1472.2 | 1485.6 | 1482.7 | 1474.0 | 1449.6 | 1438.6 | 1407.8 | 1391.0 | 1312.0 | 879.5 | 427.9 |
| 10° | 1881.5 | 1916.9 | 1917.5 | 1909.4 | 1872.8 | 1857.1 | 1825.2 | 1795.0 | 1695.1 | 1134.4 | 452.8 |
| 12.5° | 2227.5 | 2228.1 | 2255.4 | 2249.0 | 2206.6 | 2199.6 | 2172.9 | 2127.6 | 2022.6 | 1346.8 | 452.8 |
| 15° | 2510.2 | 2548.5 | 2542.1 | 2535.2 | 2490.5 | 2481.2 | 2455.6 | 2413.8 | 2291.4 | 1502.4 | 430.8 |
| 17.5° | 2743.6 | 2777.8 | 2768.0 | 2760.4 | 2715.7 | 2695.4 | 2667.5 | 2617.6 | 2482.9 | 1594.7 | 384.9 |
| 20° | 2951.4 | 2983.9 | 2964.2 | 2950.8 | 2891.0 | 2866.1 | 2825.4 | 2768.0 | 2614.1 | 1629.0 | 331.5 |
| 22.5° | 3145.3 | 3179.6 | 3154.6 | 3136.0 | 3058.8 | 3010.6 | 2953.2 | 2880.6 | 2699.5 | 1617.9 | 303.0 |
| 25° | 3251.0 | 3295.7 | 3271.9 | 3257.4 | 3183.6 | 3127.3 | 3051.3 | 2957.8 | 2748.2 | 1555.8 | 228.1 |
| 26° | 3274.2 | 3321.2 | 3298.6 | 3285.8 | 3210.9 | 3151.1 | 3069.8 | 2971.7 | 2752.3 | 1504.7 | 175.9 |
| 27° | 3290.4 | 3342.7 | 3316.6 | 3300.3 | 3223.1 | 3159.2 | 3074.5 | 2972.3 | 2745.9 | 1435.7 | 139.9 |
| 28° | 3296.8 | 3354.3 | 3322.4 | 3302.6 | 3222.5 | 3152.9 | 3062.9 | 2959.5 | 2729.1 | 1356.1 | 119.0 |
| 29° | 3296.3 | 3359.0 | 3321.8 | 3300.3 | 3215.0 | 3137.8 | 3045.5 | 2941.5 | 2705.9 | 1273.1 | 107.4 |
| 30° | 3284.6 | 3353.1 | 3316.0 | 3288.7 | 3197.0 | 3114.0 | 3020.5 | 2916.6 | 2679.7 | 1182.5 | 95.8 |
| 31° | 3269.0 | 3339.2 | 3300.3 | 3266.6 | 3167.4 | 3077.4 | 2985.7 | 2882.9 | 2644.9 | 1085.6 | 87.7 |
| 32° | 3246.3 | 3316.6 | 3273.6 | 3229.5 | 3125.6 | 3031.5 | 2943.3 | 2843.4 | 2602.5 | 983.4 | 77.8 |
| 33° | 3210.3 | 3272.5 | 3222.5 | 3171.4 | 3067.5 | 2979.3 | 2895.7 | 2797.6 | 2554.3 | 877.2 | 67.3 |
| 34° | 3144.7 | 3199.3 | 3147.6 | 3096.0 | 3003.1 | 2921.2 | 2841.1 | 2743.6 | 2498.0 | 779.1 | 58.1 |
| 35° | 3055.9 | 3102.4 | 3055.9 | 3012.4 | 2930.5 | 2854.5 | 2777.8 | 2682.6 | 2430.1 | 675.7 | 49.9 |
| 36° | 2965.4 | 3006.0 | 2963.0 | 2928.8 | 2850.4 | 2782.5 | 2711.1 | 2612.4 | 2353.5 | 577.6 | 44.1 |
| 37° | 2880.6 | 2917.2 | 2877.7 | 2843.4 | 2776.1 | 2707.0 | 2636.2 | 2535.2 | 2268.7 | 483.6 | 36.6 |
| 38° | 2796.4 | 2828.9 | 2795.3 | 2756.9 | 2694.8 | 2624.6 | 2553.2 | 2449.8 | 2174.1 | 394.8 | 31.3 |
| 39° | 2708.8 | 2735.5 | 2703.0 | 2664.1 | 2600.8 | 2531.1 | 2458.0 | 2351.1 | 2065.5 | 302.5 | 27.3 |
| 40° | 2615.3 | 2640.3 | 2600.2 | 2565.4 | 2502.1 | 2430.7 | 2355.8 | 2244.9 | 1947.7 | 202.6 | 23.2 |
| 42.5° | 2339.0 | 2354.1 | 2320.4 | 2272.2 | 2208.9 | 2130.5 | 2040.0 | 1915.8 | 1570.9 | 106.8 | 16.3 |
| 45° | 1958.1 | 1961.0 | 1934.9 | 1847.2 | 1762.5 | 1641.2 | 1505.9 | 1319.5 | 913.2 | 69.7 | 10.4 |
| 47.5° | 1182.0 | 1175.0 | 1133.8 | 1058.9 | 979.9 | 851.6 | 725.1 | 596.8 | 354.7 | 40.6 | 7.0 |
| 50° | 527.7 | 519.6 | 499.3 | 460.4 | 414.5 | 366.9 | 310.6 | 263.0 | 172.4 | 22.1 | 4.6 |
| 51° | 382.6 | 375.6 | 360.5 | 330.9 | 297.2 | 263.6 | 224.7 | 192.2 | 128.9 | 18.0 | 4.1 |
| 52° | 268.8 | 264.7 | 254.3 | 233.4 | 214.8 | 188.7 | 162.0 | 141.6 | 96.9 | 14.5 | 2.9 |
| 53° | 187.5 | 184.6 | 178.2 | 164.3 | 153.3 | 134.1 | 117.3 | 101.0 | 70.2 | 11.6 | 2.9 |
| 54° | 127.1 | 125.4 | 121.3 | 112.0 | 102.8 | 92.3 | 80.1 | 70.8 | 49.3 | 9.3 | 2.3 |
| 55° | 85.3 | 84.2 | 80.7 | 76.0 | 70.8 | 64.4 | 56.3 | 49.3 | 34.8 | 7.5 | 1.7 |
| 57.5° | 31.3 | 31.3 | 30.2 | 28.4 | 26.7 | 25.0 | 22.6 | 20.3 | 16.3 | 4.6 | 1.7 |
| 60° | 13.9 | 13.4 | 13.4 | 12.8 | 12.2 | 11.6 | 11.0 | 9.9 | 8.1 | 2.9 | 1.7 |
| 61° | 10.4 | 10.4 | 9.9 | 9.3 | 9.3 | 8.7 | 8.1 | 7.5 | 6.4 | 2.3 | 1.7 |
| 62° | 7.5 | 7.5 | 7.5 | 7.0 | 7.0 | 6.4 | 6.4 | 5.8 | 4.6 | 1.7 | 1.7 |
| 63° | 5.8 | 5.8 | 5.8 | 5.2 | 5.2 | 5.2 | 4.6 | 4.6 | 3.5 | 1.7 | 1.7 |
| 64° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 3.5 | 3.5 | 2.9 | 1.2 | 1.7 |
| 65° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.3 | 1.2 | 1.7 |
| 66° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.7 | 1.7 | 1.7 | 1.2 | 1.7 |



TEST NUMBER: P174916

CATALOG NUMBER: LDA4A13935D010TE 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° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 |
| 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: P174916

CATALOG NUMBER: LDA4A13935D010TE LAR35FL 4LA1 30° Tilt

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|--------|-------|--------|-------|
| 0° | 226.4 | 226.4 | 226.4 | 226.4 | 226.4 |
| 2.5° | 208.4 | 145.7 | 116.1 | 105.1 | 101.6 |
| 5° | 188.7 | 109.1 | 86.5 | 74.3 | 69.7 |
| 7.5° | 158.5 | 90.0 | 65.0 | 54.0 | 50.5 |
| 10° | 128.3 | 74.3 | 52.8 | 44.1 | 41.8 |
| 12.5° | 109.7 | 64.4 | 49.3 | 45.9 | 45.9 |
| 15° | 102.2 | 67.9 | 68.5 | 82.4 | 92.3 |
| 17.5° | 105.1 | 106.2 | 166.0 | 202.0 | 208.4 |
| 20° | 150.9 | 191.0 | 189.3 | 171.8 | 166.6 |
| 22.5° | 174.7 | 126.0 | 95.2 | 78.4 | 75.5 |
| 25° | 86.5 | 57.5 | 49.3 | 45.3 | 44.7 |
| 26° | 65.6 | 48.2 | 43.0 | 40.6 | 39.5 |
| 27° | 54.6 | 42.4 | 38.3 | 35.4 | 34.3 |
| 28° | 48.8 | 37.7 | 33.1 | 30.2 | 29.0 |
| 29° | 44.1 | 32.5 | 27.9 | 25.0 | 24.4 |
| 30° | 38.9 | 27.3 | 23.2 | 20.3 | 19.7 |
| 31° | 33.1 | 22.6 | 18.6 | 16.8 | 15.7 |
| 32° | 27.9 | 18.6 | 15.1 | 13.4 | 12.2 |
| 33° | 23.2 | 15.1 | 12.8 | 11.0 | 9.9 |
| 34° | 19.7 | 12.8 | 10.4 | 8.7 | 8.1 |
| 35° | 16.3 | 10.4 | 8.7 | 7.5 | 7.0 |
| 36° | 13.9 | 9.3 | 7.0 | 5.8 | 5.2 |
| 37° | 12.2 | 7.5 | 5.8 | 4.6 | 4.6 |
| 38° | 10.4 | 6.4 | 5.2 | 3.5 | 3.5 |
| 39° | 8.7 | 5.2 | 4.1 | 2.9 | 2.9 |
| 40° | 7.5 | 4.6 | 3.5 | 2.3 | 1.7 |
| 42.5° | 5.2 | 2.9 | 2.3 | 1.2 | 0.6 |
| 45° | 3.5 | 2.3 | 1.2 | 0.6 | 0.0 |
| 47.5° | 2.3 | 1.7 | 1.2 | 0.6 | 0.0 |
| 50° | 1.7 | 1.7 | 1.2 | 0.0 | 0.0 |
| 51° | 1.7 | 1.2 | 1.2 | 0.0 | 0.0 |
| 52° | 1.7 | 1.2 | 0.6 | 0.0 | 0.0 |
| 53° | 1.7 | 1.2 | 0.6 | 0.0 | 0.0 |
| 54° | 1.7 | 1.2 | 0.6 | 0.0 | 0.0 |
| 55° | 1.7 | 1.2 | 0.6 | 0.0 | 0.0 |
| 57.5° | 1.7 | 1.2 | 0.6 | 0.0 | 0.0 |
| 60° | 1.7 | 1.2 | 1.2 | 0.0 | 0.0 |
| 61° | 1.7 | 1.7 | 1.2 | 0.0 | 0.0 |
| 62° | 1.7 | 1.7 | 1.2 | 0.0 | 0.0 |
| 63° | 1.7 | 1.7 | 1.2 | 0.0 | 0.0 |
| 64° | 1.7 | 1.7 | 1.2 | 0.6 | 0.0 |
| 65° | 1.7 | 1.7 | 1.2 | 0.6 | 0.0 |
| 66° | 1.7 | 1.7 | 1.2 | 0.6 | 0.0 |



TEST NUMBER: P174916

CATALOG NUMBER: LDA4A13935D010TE LAR35FL 4LA1 30° Tilt

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 72.5° | 1.7 | 1.7 | 1.2 | 0.6 | 0.0 |
| 75° | 1.7 | 1.7 | 1.2 | 0.6 | 0.0 |
| 77.5° | 2.3 | 1.7 | 1.2 | 0.6 | 0.0 |
| 80° | 2.3 | 1.7 | 1.2 | 0.6 | 0.0 |
| 82.5° | 2.3 | 1.7 | 1.2 | 0.6 | 0.0 |
| 85° | 2.3 | 1.7 | 1.2 | 0.6 | 0.0 |
| 87.5° | 2.3 | 1.7 | 1.2 | 0.6 | 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° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.7 |
| 70° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.7 |





| | | | | | |
|-------|-----|-----|-----|-----|-----|
| 67.5° | 1.7 | 1.7 | 1.2 | 0.6 | 0.0 |
| 70° | 1.7 | 1.7 | 1.2 | 0.6 | 0.0 |



(END OF REPORT)