

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: P174903

Luminaire Tested: **LDA4A09830D010TE LAR35FL 4LA1 30° Tilt**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P174903
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: LDA4A09830D010TE 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 / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 953.5 lumens
Efficiency: N/A
Efficacy: 68.9 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

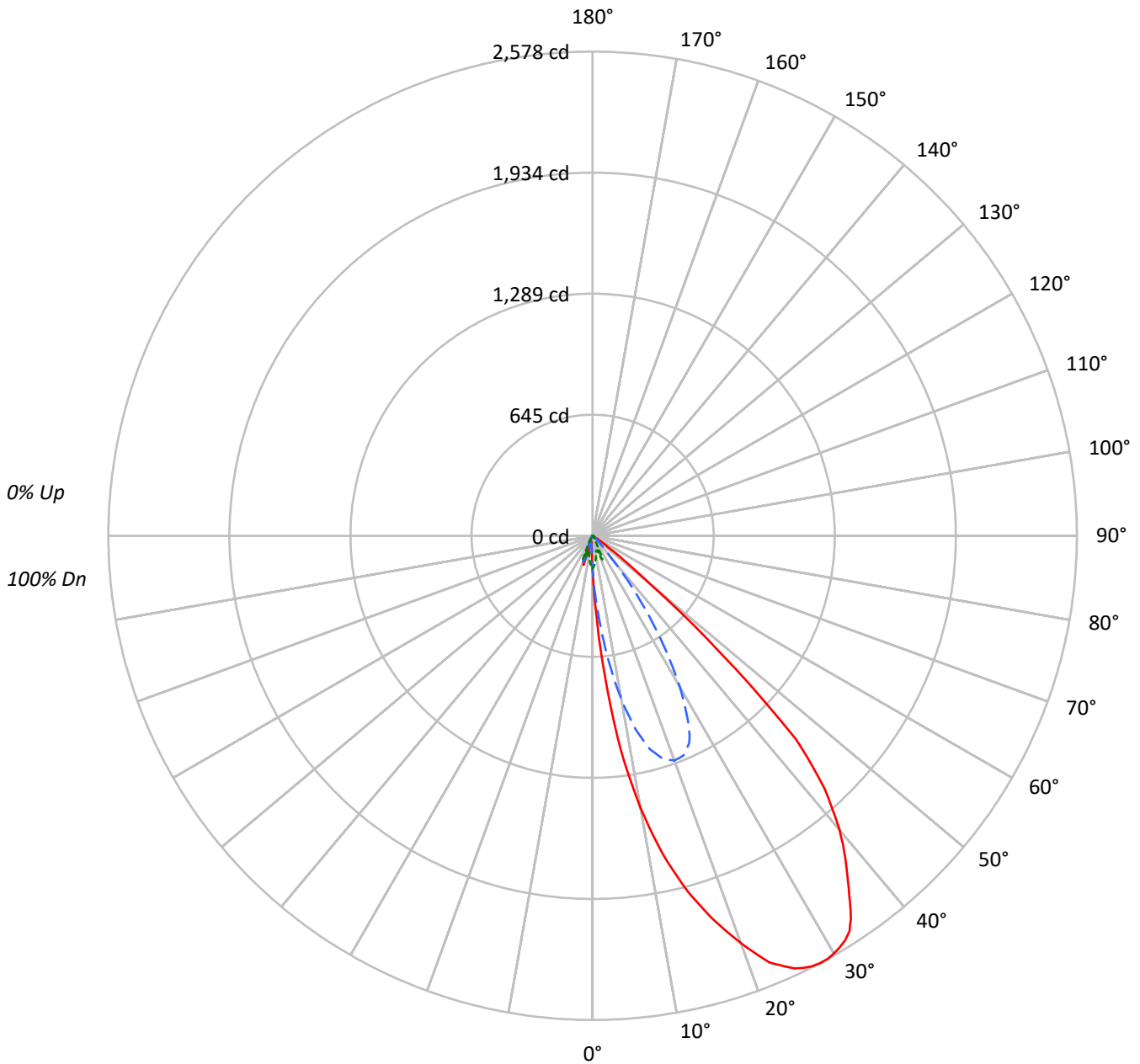
Input Watts (W): 13.84
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P174903

CATALOG NUMBER: LDA4A09830D010TE LAR35FL 4LA1 30° Tilt

Luminous Intensity Polar Plot





TEST NUMBER: P174903

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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° | 21832 | 21832 | 21832 |
| 5° | 91723 | 18263 | 6748 |
| 10° | 184253 | 12562 | 4096 |
| 15° | 250630 | 10203 | 9220 |
| 20° | 302913 | 15489 | 17103 |
| 25° | 345945 | 9200 | 4763 |
| 30° | 365782 | 4330 | 2193 |
| 35° | 359789 | 1912 | 813 |
| 40° | 329262 | 950 | 225 |
| 45° | 267063 | 471 | 0 |
| 50° | 79175 | 269 | 0 |
| 55° | 14344 | 301 | 0 |
| 60° | 2689 | 345 | 0 |
| 65° | 671 | 409 | 0 |
| 70° | 180 | 505 | 0 |
| 75° | 0 | 667 | 0 |
| 80° | 0 | 1279 | 0 |
| 85° | 0 | 2547 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 32.2 | 3.4 |
| 10°-20° | 166.5 | 17.5 |
| 20°-30° | 291.6 | 30.6 |
| 30°-40° | 292.9 | 30.7 |
| 40°-50° | 154.3 | 16.2 |
| 50°-60° | 12.9 | 1.3 |
| 60°-70° | 1.3 | 0.1 |
| 70°-80° | 1.0 | 0.1 |
| 80°-90° | 0.9 | 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° | 490.3 | 51.4 |
| 0°-40° | 783.2 | 82.1 |
| 0°-60° | 950.4 | 99.7 |
| 0°-90° | 953.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 953.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 177 | 177 | 177 | 177 | 177 | |
| 5° | 741 | 484 | 148 | 68 | 54 | 95 |
| 15° | 1963 | 1175 | 80 | 54 | 72 | 560 |
| 25° | 2542 | 1216 | 68 | 39 | 35 | 1163 |
| 35° | 2389 | 528 | 13 | 7 | 5 | 1477 |
| 45° | 1531 | 54 | 3 | 1 | 0 | 1049 |
| 55° | 67 | 6 | 1 | 0 | 0 | 100 |
| 65° | 2 | 1 | 1 | 1 | 0 | 3 |
| 75° | 0 | 1 | 1 | 1 | 0 | 0 |
| 85° | 0 | 1 | 2 | 1 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P174903

CATALOG NUMBER: LDA4A09830D010TE 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° | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 |
| 2.5° | 401.7 | 402.2 | 402.6 | 405.8 | 398.5 | 396.7 | 393.5 | 389.0 | 374.0 | 312.3 | 235.6 |
| 5° | 740.8 | 746.2 | 744.9 | 740.3 | 729.0 | 722.6 | 713.1 | 703.1 | 662.3 | 484.3 | 292.3 |
| 7.5° | 1151.1 | 1161.6 | 1159.3 | 1152.5 | 1133.4 | 1124.8 | 1100.7 | 1087.6 | 1025.8 | 687.7 | 334.5 |
| 10° | 1471.1 | 1498.8 | 1499.3 | 1492.9 | 1464.3 | 1452.1 | 1427.1 | 1403.5 | 1325.4 | 886.9 | 354.0 |
| 12.5° | 1741.6 | 1742.1 | 1763.4 | 1758.4 | 1725.3 | 1719.9 | 1699.0 | 1663.6 | 1581.4 | 1053.1 | 354.0 |
| 15° | 1962.7 | 1992.7 | 1987.7 | 1982.2 | 1947.3 | 1940.0 | 1920.0 | 1887.4 | 1791.6 | 1174.7 | 336.8 |
| 17.5° | 2145.2 | 2172.0 | 2164.2 | 2158.3 | 2123.4 | 2107.5 | 2085.7 | 2046.7 | 1941.4 | 1246.9 | 300.9 |
| 20° | 2307.7 | 2333.1 | 2317.7 | 2307.2 | 2260.5 | 2240.9 | 2209.2 | 2164.2 | 2043.9 | 1273.7 | 259.2 |
| 22.5° | 2459.3 | 2486.1 | 2466.5 | 2452.0 | 2391.6 | 2354.0 | 2309.0 | 2252.3 | 2110.7 | 1265.0 | 236.9 |
| 25° | 2541.9 | 2576.8 | 2558.2 | 2546.9 | 2489.2 | 2445.2 | 2385.7 | 2312.7 | 2148.8 | 1216.5 | 178.4 |
| 26° | 2560.0 | 2596.8 | 2579.1 | 2569.1 | 2510.6 | 2463.8 | 2400.3 | 2323.6 | 2152.0 | 1176.5 | 137.5 |
| 27° | 2572.8 | 2613.6 | 2593.2 | 2580.5 | 2520.1 | 2470.2 | 2403.9 | 2324.0 | 2147.0 | 1122.5 | 109.4 |
| 28° | 2577.7 | 2622.7 | 2597.7 | 2582.3 | 2519.6 | 2465.2 | 2394.8 | 2314.0 | 2133.8 | 1060.3 | 93.1 |
| 29° | 2577.3 | 2626.3 | 2597.3 | 2580.5 | 2513.7 | 2453.4 | 2381.2 | 2300.0 | 2115.7 | 995.4 | 84.0 |
| 30° | 2568.2 | 2621.8 | 2592.7 | 2571.4 | 2499.7 | 2434.8 | 2361.7 | 2280.4 | 2095.2 | 924.6 | 74.9 |
| 31° | 2556.0 | 2610.9 | 2580.5 | 2554.1 | 2476.5 | 2406.2 | 2334.5 | 2254.1 | 2068.0 | 848.8 | 68.5 |
| 32° | 2538.3 | 2593.2 | 2559.6 | 2525.1 | 2443.8 | 2370.3 | 2301.3 | 2223.2 | 2034.9 | 768.9 | 60.8 |
| 33° | 2510.1 | 2558.7 | 2519.6 | 2479.7 | 2398.5 | 2329.5 | 2264.1 | 2187.4 | 1997.2 | 685.9 | 52.7 |
| 34° | 2458.8 | 2501.5 | 2461.1 | 2420.7 | 2348.1 | 2284.1 | 2221.4 | 2145.2 | 1953.2 | 609.1 | 45.4 |
| 35° | 2389.4 | 2425.7 | 2389.4 | 2355.3 | 2291.3 | 2231.9 | 2172.0 | 2097.5 | 1900.1 | 528.3 | 39.0 |
| 36° | 2318.6 | 2350.3 | 2316.7 | 2290.0 | 2228.7 | 2175.6 | 2119.8 | 2042.6 | 1840.1 | 451.6 | 34.5 |
| 37° | 2252.3 | 2280.9 | 2250.0 | 2223.2 | 2170.6 | 2116.6 | 2061.2 | 1982.2 | 1773.9 | 378.1 | 28.6 |
| 38° | 2186.5 | 2211.9 | 2185.6 | 2155.6 | 2107.0 | 2052.1 | 1996.3 | 1915.5 | 1699.9 | 308.7 | 24.5 |
| 39° | 2117.9 | 2138.8 | 2113.4 | 2083.0 | 2033.5 | 1979.0 | 1921.8 | 1838.3 | 1615.0 | 236.5 | 21.3 |
| 40° | 2044.9 | 2064.4 | 2033.1 | 2005.8 | 1956.3 | 1900.5 | 1842.0 | 1755.3 | 1522.9 | 158.4 | 18.2 |
| 42.5° | 1828.8 | 1840.6 | 1814.3 | 1776.6 | 1727.1 | 1665.8 | 1595.0 | 1497.9 | 1228.3 | 83.5 | 12.7 |
| 45° | 1531.0 | 1533.3 | 1512.9 | 1444.3 | 1378.1 | 1283.2 | 1177.4 | 1031.7 | 714.0 | 54.5 | 8.2 |
| 47.5° | 924.2 | 918.7 | 886.5 | 827.9 | 766.2 | 665.9 | 566.9 | 466.6 | 277.3 | 31.8 | 5.4 |
| 50° | 412.6 | 406.2 | 390.4 | 359.9 | 324.1 | 286.9 | 242.8 | 205.6 | 134.8 | 17.2 | 3.6 |
| 51° | 299.1 | 293.7 | 281.9 | 258.7 | 232.4 | 206.1 | 175.7 | 150.2 | 100.8 | 14.1 | 3.2 |
| 52° | 210.2 | 207.0 | 198.8 | 182.5 | 167.9 | 147.5 | 126.6 | 110.8 | 75.8 | 11.3 | 2.3 |
| 53° | 146.6 | 144.3 | 139.3 | 128.5 | 119.8 | 104.9 | 91.7 | 79.0 | 54.9 | 9.1 | 2.3 |
| 54° | 99.4 | 98.0 | 94.9 | 87.6 | 80.3 | 72.2 | 62.6 | 55.4 | 38.6 | 7.3 | 1.8 |
| 55° | 66.7 | 65.8 | 63.1 | 59.5 | 55.4 | 50.4 | 44.0 | 38.6 | 27.2 | 5.9 | 1.4 |
| 57.5° | 24.5 | 24.5 | 23.6 | 22.2 | 20.9 | 19.5 | 17.7 | 15.9 | 12.7 | 3.6 | 1.4 |
| 60° | 10.9 | 10.4 | 10.4 | 10.0 | 9.5 | 9.1 | 8.6 | 7.7 | 6.4 | 2.3 | 1.4 |
| 61° | 8.2 | 8.2 | 7.7 | 7.3 | 7.3 | 6.8 | 6.4 | 5.9 | 5.0 | 1.8 | 1.4 |
| 62° | 5.9 | 5.9 | 5.9 | 5.4 | 5.4 | 5.0 | 5.0 | 4.5 | 3.6 | 1.4 | 1.4 |
| 63° | 4.5 | 4.5 | 4.5 | 4.1 | 4.1 | 4.1 | 3.6 | 3.6 | 2.7 | 1.4 | 1.4 |
| 64° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 2.7 | 2.7 | 2.3 | 0.9 | 1.4 |
| 65° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 1.8 | 0.9 | 1.4 |
| 66° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.4 | 1.4 | 1.4 | 0.9 | 1.4 |



TEST NUMBER: P174903

CATALOG NUMBER: LDA4A09830D010TE 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° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 1.4 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.9 | 1.4 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 1.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 1.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.9 | 1.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.9 | 1.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.9 | 1.4 |
| 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: P174903

CATALOG NUMBER: LDA4A09830D010TE LAR35FL 4LA1 30° Tilt

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|--------|-------|--------|-------|
| 0° | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 |
| 2.5° | 163.0 | 113.9 | 90.8 | 82.2 | 79.4 |
| 5° | 147.5 | 85.3 | 67.6 | 58.1 | 54.5 |
| 7.5° | 123.9 | 70.4 | 50.8 | 42.2 | 39.5 |
| 10° | 100.3 | 58.1 | 41.3 | 34.5 | 32.7 |
| 12.5° | 85.8 | 50.4 | 38.6 | 35.9 | 35.9 |
| 15° | 79.9 | 53.1 | 53.6 | 64.5 | 72.2 |
| 17.5° | 82.2 | 83.1 | 129.8 | 158.0 | 163.0 |
| 20° | 118.0 | 149.3 | 148.0 | 134.4 | 130.3 |
| 22.5° | 136.6 | 98.5 | 74.4 | 61.3 | 59.0 |
| 25° | 67.6 | 44.9 | 38.6 | 35.4 | 35.0 |
| 26° | 51.3 | 37.7 | 33.6 | 31.8 | 30.9 |
| 27° | 42.7 | 33.1 | 30.0 | 27.7 | 26.8 |
| 28° | 38.1 | 29.5 | 25.9 | 23.6 | 22.7 |
| 29° | 34.5 | 25.4 | 21.8 | 19.5 | 19.1 |
| 30° | 30.4 | 21.3 | 18.2 | 15.9 | 15.4 |
| 31° | 25.9 | 17.7 | 14.5 | 13.2 | 12.3 |
| 32° | 21.8 | 14.5 | 11.8 | 10.4 | 9.5 |
| 33° | 18.2 | 11.8 | 10.0 | 8.6 | 7.7 |
| 34° | 15.4 | 10.0 | 8.2 | 6.8 | 6.4 |
| 35° | 12.7 | 8.2 | 6.8 | 5.9 | 5.4 |
| 36° | 10.9 | 7.3 | 5.4 | 4.5 | 4.1 |
| 37° | 9.5 | 5.9 | 4.5 | 3.6 | 3.6 |
| 38° | 8.2 | 5.0 | 4.1 | 2.7 | 2.7 |
| 39° | 6.8 | 4.1 | 3.2 | 2.3 | 2.3 |
| 40° | 5.9 | 3.6 | 2.7 | 1.8 | 1.4 |
| 42.5° | 4.1 | 2.3 | 1.8 | 0.9 | 0.5 |
| 45° | 2.7 | 1.8 | 0.9 | 0.5 | 0.0 |
| 47.5° | 1.8 | 1.4 | 0.9 | 0.5 | 0.0 |
| 50° | 1.4 | 1.4 | 0.9 | 0.0 | 0.0 |
| 51° | 1.4 | 0.9 | 0.9 | 0.0 | 0.0 |
| 52° | 1.4 | 0.9 | 0.5 | 0.0 | 0.0 |
| 53° | 1.4 | 0.9 | 0.5 | 0.0 | 0.0 |
| 54° | 1.4 | 0.9 | 0.5 | 0.0 | 0.0 |
| 55° | 1.4 | 0.9 | 0.5 | 0.0 | 0.0 |
| 57.5° | 1.4 | 0.9 | 0.5 | 0.0 | 0.0 |
| 60° | 1.4 | 0.9 | 0.9 | 0.0 | 0.0 |
| 61° | 1.4 | 1.4 | 0.9 | 0.0 | 0.0 |
| 62° | 1.4 | 1.4 | 0.9 | 0.0 | 0.0 |
| 63° | 1.4 | 1.4 | 0.9 | 0.0 | 0.0 |
| 64° | 1.4 | 1.4 | 0.9 | 0.5 | 0.0 |
| 65° | 1.4 | 1.4 | 0.9 | 0.5 | 0.0 |
| 66° | 1.4 | 1.4 | 0.9 | 0.5 | 0.0 |



TEST NUMBER: P174903

CATALOG NUMBER: LDA4A09830D010TE LAR35FL 4LA1 30° Tilt

CANDELA DISTRIBUTION (continued):

| | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 72.5° | 1.4 | 1.4 | 0.9 | 0.5 | 0.0 |
| 75° | 1.4 | 1.4 | 0.9 | 0.5 | 0.0 |
| 77.5° | 1.8 | 1.4 | 0.9 | 0.5 | 0.0 |
| 80° | 1.8 | 1.4 | 0.9 | 0.5 | 0.0 |
| 82.5° | 1.8 | 1.4 | 0.9 | 0.5 | 0.0 |
| 85° | 1.8 | 1.4 | 0.9 | 0.5 | 0.0 |
| 87.5° | 1.8 | 1.4 | 0.9 | 0.5 | 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° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.4 |
| 70° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 1.4 |





| | | | | | |
|-------|-----|-----|-----|-----|-----|
| 67.5° | 1.4 | 1.4 | 0.9 | 0.5 | 0.0 |
| 70° | 1.4 | 1.4 | 0.9 | 0.5 | 0.0 |



(END OF REPORT)