

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: P1191521

Luminaire Tested: **LDA4A15927D010TE LAR35FL 4LA1 30° Tilt**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14  
Report Number: P1191521  
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: LDA4A15927D010TE 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 / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

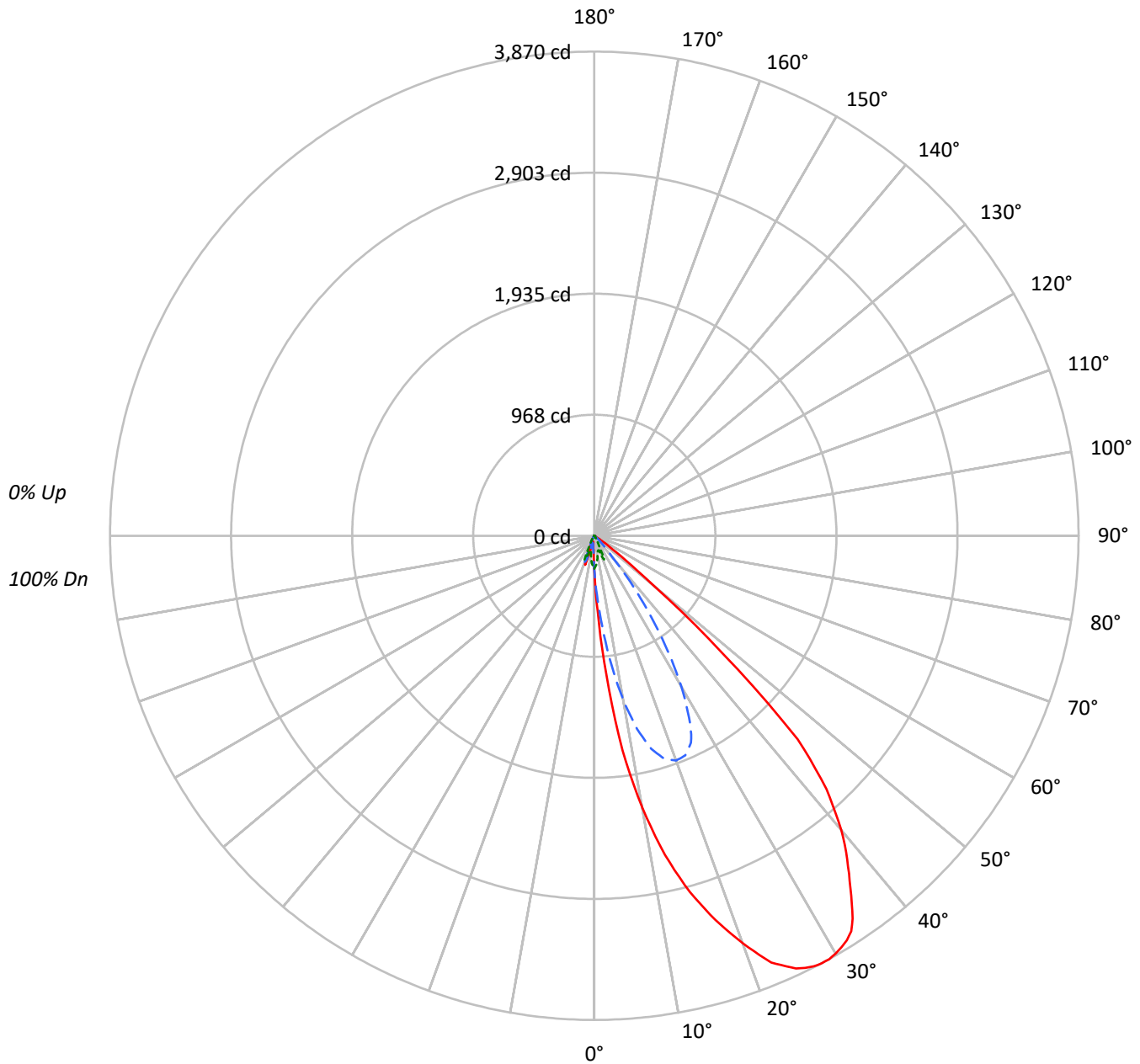
Lumens per Lamp: N/A  
Luminaire Lumens: 1431.5 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.86 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (Ain): 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: P1191521

CATALOG NUMBER: LDA4A15927D010TE LAR35FL 4LA1 30° Tilt

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| 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°  | 32785  | 32785 | 32785 |
| 5°  | 137709 | 27425 | 10128 |
| 10° | 276636 | 18850 | 6150  |
| 15° | 376284 | 15324 | 13842 |
| 20° | 454769 | 23246 | 25662 |
| 25° | 519386 | 13827 | 7145  |
| 30° | 549171 | 6509  | 3304  |
| 35° | 540166 | 2876  | 1235  |
| 40° | 494336 | 1433  | 322   |
| 45° | 400978 | 715   | 0     |
| 50° | 118877 | 384   | 0     |
| 55° | 21548  | 430   | 0     |
| 60° | 4046   | 493   | 0     |
| 65° | 992    | 584   | 0     |
| 70° | 252    | 721   | 0     |
| 75° | 0      | 953   | 0     |
| 80° | 0      | 1918  | 0     |
| 85° | 0      | 3821  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.3   | 3.4       |
| 10°-20°   | 250.0  | 17.5      |
| 20°-30°   | 437.8  | 30.6      |
| 30°-40°   | 439.7  | 30.7      |
| 40°-50°   | 231.6  | 16.2      |
| 50°-60°   | 19.3   | 1.3       |
| 60°-70°   | 1.9    | 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°    | 736.2  | 51.4      |
| 0°-40°    | 1175.9 | 82.1      |
| 0°-60°    | 1426.8 | 99.7      |
| 0°-90°    | 1431.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1431.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 266  | 266  | 266 | 266  | 266  |      |
| 5°  | 1112 | 727  | 222 | 102  | 82   | 142  |
| 15° | 2947 | 1764 | 120 | 80   | 108  | 841  |
| 25° | 3816 | 1826 | 102 | 58   | 52   | 1746 |
| 35° | 3587 | 793  | 19  | 10   | 8    | 2218 |
| 45° | 2299 | 82   | 4   | 1    | 0    | 1576 |
| 55° | 100  | 9    | 2   | 1    | 0    | 151  |
| 65° | 3    | 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    |      |

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CATALOG NUMBER: LDA4A15927D010TE 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°    | 265.8  | 265.8  | 265.8  | 265.8  | 265.8  | 265.8  | 265.8  | 265.8  | 265.8  | 265.8  | 265.8 |
| 2.5°  | 603.1  | 603.8  | 604.5  | 609.3  | 598.4  | 595.6  | 590.9  | 584.0  | 561.5  | 468.8  | 353.7 |
| 5°    | 1112.2 | 1120.4 | 1118.3 | 1111.5 | 1094.5 | 1084.9 | 1070.6 | 1055.6 | 994.2  | 727.1  | 438.8 |
| 7.5°  | 1728.3 | 1744.0 | 1740.6 | 1730.3 | 1701.7 | 1688.7 | 1652.6 | 1632.8 | 1540.1 | 1032.4 | 502.2 |
| 10°   | 2208.7 | 2250.3 | 2251.0 | 2241.4 | 2198.5 | 2180.1 | 2142.6 | 2107.1 | 1990.0 | 1331.6 | 531.5 |
| 12.5° | 2614.8 | 2615.5 | 2647.5 | 2640.0 | 2590.2 | 2582.2 | 2550.8 | 2497.6 | 2374.2 | 1581.0 | 531.5 |
| 15°   | 2946.7 | 2991.7 | 2984.2 | 2976.0 | 2923.5 | 2912.6 | 2882.6 | 2833.6 | 2689.8 | 1763.7 | 505.6 |
| 17.5° | 3220.6 | 3260.9 | 3249.3 | 3240.4 | 3187.9 | 3164.1 | 3131.3 | 3072.8 | 2914.6 | 1872.0 | 451.8 |
| 20°   | 3464.6 | 3502.8 | 3479.6 | 3463.9 | 3393.8 | 3364.5 | 3316.8 | 3249.3 | 3068.7 | 1912.2 | 389.2 |
| 22.5° | 3692.2 | 3732.4 | 3703.1 | 3681.3 | 3590.7 | 3534.1 | 3466.6 | 3381.6 | 3168.8 | 1899.3 | 355.8 |
| 25°   | 3816.3 | 3868.8 | 3840.8 | 3823.8 | 3737.2 | 3671.1 | 3581.9 | 3472.1 | 3226.1 | 1826.3 | 267.8 |
| 26°   | 3843.6 | 3898.8 | 3872.2 | 3857.2 | 3769.2 | 3699.0 | 3603.7 | 3488.5 | 3230.9 | 1766.5 | 206.5 |
| 27°   | 3862.6 | 3924.0 | 3893.3 | 3874.2 | 3783.6 | 3708.6 | 3609.1 | 3489.1 | 3223.4 | 1685.3 | 164.2 |
| 28°   | 3870.1 | 3937.6 | 3900.1 | 3877.0 | 3782.9 | 3701.1 | 3595.5 | 3474.1 | 3203.6 | 1591.9 | 139.6 |
| 29°   | 3869.5 | 3943.0 | 3899.5 | 3874.2 | 3774.0 | 3683.3 | 3575.1 | 3453.0 | 3176.3 | 1494.5 | 126.1 |
| 30°   | 3855.8 | 3936.3 | 3892.6 | 3860.6 | 3752.9 | 3655.5 | 3545.7 | 3423.7 | 3145.6 | 1388.2 | 112.5 |
| 31°   | 3837.4 | 3919.9 | 3874.2 | 3834.7 | 3718.1 | 3612.6 | 3504.8 | 3384.3 | 3104.9 | 1274.3 | 103.0 |
| 32°   | 3810.8 | 3893.3 | 3842.9 | 3791.1 | 3669.1 | 3558.7 | 3455.1 | 3337.9 | 3055.1 | 1154.5 | 91.4  |
| 33°   | 3768.6 | 3841.5 | 3782.9 | 3722.9 | 3601.0 | 3497.3 | 3399.1 | 3284.1 | 2998.5 | 1029.7 | 79.1  |
| 34°   | 3691.5 | 3755.6 | 3694.9 | 3634.4 | 3525.3 | 3429.1 | 3335.2 | 3220.6 | 2932.4 | 914.6  | 68.2  |
| 35°   | 3587.3 | 3641.9 | 3587.3 | 3536.2 | 3440.1 | 3350.9 | 3260.9 | 3149.1 | 2852.7 | 793.2  | 58.6  |
| 36°   | 3481.0 | 3528.7 | 3478.2 | 3438.0 | 3346.1 | 3266.3 | 3182.5 | 3066.7 | 2762.7 | 678.1  | 51.8  |
| 37°   | 3381.6 | 3424.4 | 3378.1 | 3337.9 | 3258.8 | 3177.7 | 3094.6 | 2976.0 | 2663.2 | 567.7  | 43.0  |
| 38°   | 3282.7 | 3320.9 | 3281.3 | 3236.3 | 3163.4 | 3081.0 | 2997.1 | 2875.8 | 2552.2 | 463.4  | 36.8  |
| 39°   | 3179.7 | 3211.1 | 3172.9 | 3127.2 | 3053.1 | 2971.2 | 2885.3 | 2760.0 | 2424.7 | 355.1  | 32.0  |
| 40°   | 3070.1 | 3099.4 | 3052.4 | 3011.5 | 2937.1 | 2853.4 | 2765.5 | 2635.2 | 2286.4 | 237.8  | 27.3  |
| 42.5° | 2745.7 | 2763.4 | 2723.9 | 2667.3 | 2593.0 | 2501.1 | 2394.7 | 2248.9 | 1844.1 | 125.5  | 19.1  |
| 45°   | 2298.7 | 2302.1 | 2271.4 | 2168.5 | 2068.9 | 1926.6 | 1767.7 | 1549.0 | 1072.0 | 81.8   | 12.3  |
| 47.5° | 1387.5 | 1379.3 | 1330.9 | 1243.0 | 1150.4 | 999.7  | 851.2  | 700.5  | 416.3  | 47.7   | 8.2   |
| 50°   | 619.5  | 610.0  | 586.1  | 540.4  | 486.5  | 430.6  | 364.6  | 308.7  | 202.4  | 25.9   | 5.5   |
| 51°   | 449.0  | 440.9  | 423.1  | 388.5  | 349.0  | 309.4  | 263.7  | 225.5  | 151.2  | 21.1   | 4.8   |
| 52°   | 315.5  | 310.8  | 298.5  | 274.0  | 252.1  | 221.5  | 190.1  | 166.2  | 113.9  | 17.0   | 3.4   |
| 53°   | 220.1  | 216.7  | 209.2  | 192.8  | 179.9  | 157.4  | 137.6  | 118.6  | 82.5   | 13.6   | 3.4   |
| 54°   | 149.2  | 147.1  | 142.4  | 131.6  | 120.7  | 108.4  | 94.1   | 83.2   | 58.0   | 10.9   | 2.7   |
| 55°   | 100.2  | 98.9   | 94.8   | 89.3   | 83.2   | 75.7   | 66.1   | 58.0   | 40.9   | 8.9    | 2.0   |
| 57.5° | 36.8   | 36.8   | 35.5   | 33.4   | 31.4   | 29.3   | 26.6   | 23.9   | 19.1   | 5.5    | 2.0   |
| 60°   | 16.4   | 15.7   | 15.7   | 15.0   | 14.3   | 13.6   | 13.0   | 11.6   | 9.5    | 3.4    | 2.0   |
| 61°   | 12.3   | 12.3   | 11.6   | 10.9   | 10.9   | 10.2   | 9.5    | 8.9    | 7.5    | 2.7    | 2.0   |
| 62°   | 8.9    | 8.9    | 8.9    | 8.2    | 8.2    | 7.5    | 7.5    | 6.8    | 5.5    | 2.0    | 2.0   |
| 63°   | 6.8    | 6.8    | 6.8    | 6.1    | 6.1    | 6.1    | 5.5    | 5.5    | 4.1    | 2.0    | 2.0   |
| 64°   | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.1    | 4.1    | 3.4    | 1.4    | 2.0   |
| 65°   | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 2.7    | 1.4    | 2.0   |
| 66°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.0    | 2.0    | 2.0    | 1.4    | 2.0   |



TEST NUMBER: P1191521

CATALOG NUMBER: LDA4A15927D010TE 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 | 2.0   |
| 75°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.7 | 0.7   | 0.7   | 1.4 | 2.0   |
| 77.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.7   | 0.7 | 0.7   | 0.7   | 1.4 | 2.0   |
| 80°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.7   | 0.7 | 0.7   | 0.7   | 1.4 | 2.0   |
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.7 | 0.7   | 0.7   | 1.4 | 2.0   |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.7 | 0.7   | 0.7   | 1.4 | 2.0   |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.7 | 0.7   | 0.7   | 1.4 | 2.0   |
| 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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CATALOG NUMBER: LDA4A15927D010TE LAR35FL 4LA1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|--------|-------|
| 0°    | 265.8 | 265.8  | 265.8 | 265.8  | 265.8 |
| 2.5°  | 244.6 | 171.0  | 136.2 | 123.4  | 119.3 |
| 5°    | 221.5 | 128.2  | 101.6 | 87.3   | 81.8  |
| 7.5°  | 186.0 | 105.7  | 76.4  | 63.4   | 59.3  |
| 10°   | 150.5 | 87.3   | 62.0  | 51.8   | 49.1  |
| 12.5° | 128.9 | 75.7   | 58.0  | 53.9   | 53.9  |
| 15°   | 120.0 | 79.8   | 80.5  | 96.8   | 108.4 |
| 17.5° | 123.4 | 124.8  | 194.9 | 237.1  | 244.6 |
| 20°   | 177.1 | 224.2  | 222.1 | 201.7  | 195.5 |
| 22.5° | 205.1 | 147.8  | 111.8 | 92.0   | 88.6  |
| 25°   | 101.6 | 67.5   | 58.0  | 53.2   | 52.5  |
| 26°   | 77.0  | 56.6   | 50.5  | 47.7   | 46.4  |
| 27°   | 64.1  | 49.8   | 45.0  | 41.6   | 40.2  |
| 28°   | 57.3  | 44.3   | 38.9  | 35.5   | 34.1  |
| 29°   | 51.8  | 38.2   | 32.7  | 29.3   | 28.6  |
| 30°   | 45.7  | 32.0   | 27.3  | 23.9   | 23.2  |
| 31°   | 38.9  | 26.6   | 21.8  | 19.8   | 18.4  |
| 32°   | 32.7  | 21.8   | 17.7  | 15.7   | 14.3  |
| 33°   | 27.3  | 17.7   | 15.0  | 13.0   | 11.6  |
| 34°   | 23.2  | 15.0   | 12.3  | 10.2   | 9.5   |
| 35°   | 19.1  | 12.3   | 10.2  | 8.9    | 8.2   |
| 36°   | 16.4  | 10.9   | 8.2   | 6.8    | 6.1   |
| 37°   | 14.3  | 8.9    | 6.8   | 5.5    | 5.5   |
| 38°   | 12.3  | 7.5    | 6.1   | 4.1    | 4.1   |
| 39°   | 10.2  | 6.1    | 4.8   | 3.4    | 3.4   |
| 40°   | 8.9   | 5.5    | 4.1   | 2.7    | 2.0   |
| 42.5° | 6.1   | 3.4    | 2.7   | 1.4    | 0.7   |
| 45°   | 4.1   | 2.7    | 1.4   | 0.7    | 0.0   |
| 47.5° | 2.7   | 2.0    | 1.4   | 0.7    | 0.0   |
| 50°   | 2.0   | 2.0    | 1.4   | 0.0    | 0.0   |
| 51°   | 2.0   | 1.4    | 1.4   | 0.0    | 0.0   |
| 52°   | 2.0   | 1.4    | 0.7   | 0.0    | 0.0   |
| 53°   | 2.0   | 1.4    | 0.7   | 0.0    | 0.0   |
| 54°   | 2.0   | 1.4    | 0.7   | 0.0    | 0.0   |
| 55°   | 2.0   | 1.4    | 0.7   | 0.0    | 0.0   |
| 57.5° | 2.0   | 1.4    | 0.7   | 0.0    | 0.0   |
| 60°   | 2.0   | 1.4    | 1.4   | 0.0    | 0.0   |
| 61°   | 2.0   | 2.0    | 1.4   | 0.0    | 0.0   |
| 62°   | 2.0   | 2.0    | 1.4   | 0.0    | 0.0   |
| 63°   | 2.0   | 2.0    | 1.4   | 0.0    | 0.0   |
| 64°   | 2.0   | 2.0    | 1.4   | 0.7    | 0.0   |
| 65°   | 2.0   | 2.0    | 1.4   | 0.7    | 0.0   |
| 66°   | 2.0   | 2.0    | 1.4   | 0.7    | 0.0   |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1191521

CATALOG NUMBER: LDA4A15927D010TE LAR35FL 4LA1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-----|--------|------|--------|------|
| 72.5° | 2.0 | 2.0    | 1.4  | 0.7    | 0.0  |
| 75°   | 2.0 | 2.0    | 1.4  | 0.7    | 0.0  |
| 77.5° | 2.7 | 2.0    | 1.4  | 0.7    | 0.0  |
| 80°   | 2.7 | 2.0    | 1.4  | 0.7    | 0.0  |
| 82.5° | 2.7 | 2.0    | 1.4  | 0.7    | 0.0  |
| 85°   | 2.7 | 2.0    | 1.4  | 0.7    | 0.0  |
| 87.5° | 2.7 | 2.0    | 1.4  | 0.7    | 0.0  |
| 90°   | 0.0 | 0.0    | 0.0  | 0.0    | 0.0  |

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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

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|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.0 |
| 70°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 2.0 |

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|       |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|
| 67.5° | 2.0 | 2.0 | 1.4 | 0.7 | 0.0 |
| 70°   | 2.0 | 2.0 | 1.4 | 0.7 | 0.0 |

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(END OF REPORT)