

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: P1191905

Luminaire Tested: **LDA4A35935D010TE LAR15SP 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: P1191905  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25648)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A35935D010TE LAR15SP 4LA1 30° Tilt  
Description: PORTFOLIO 4" Adjustable Reflector, Self-flanged Trim Ring, 15° Spot  
Optic, at 30° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

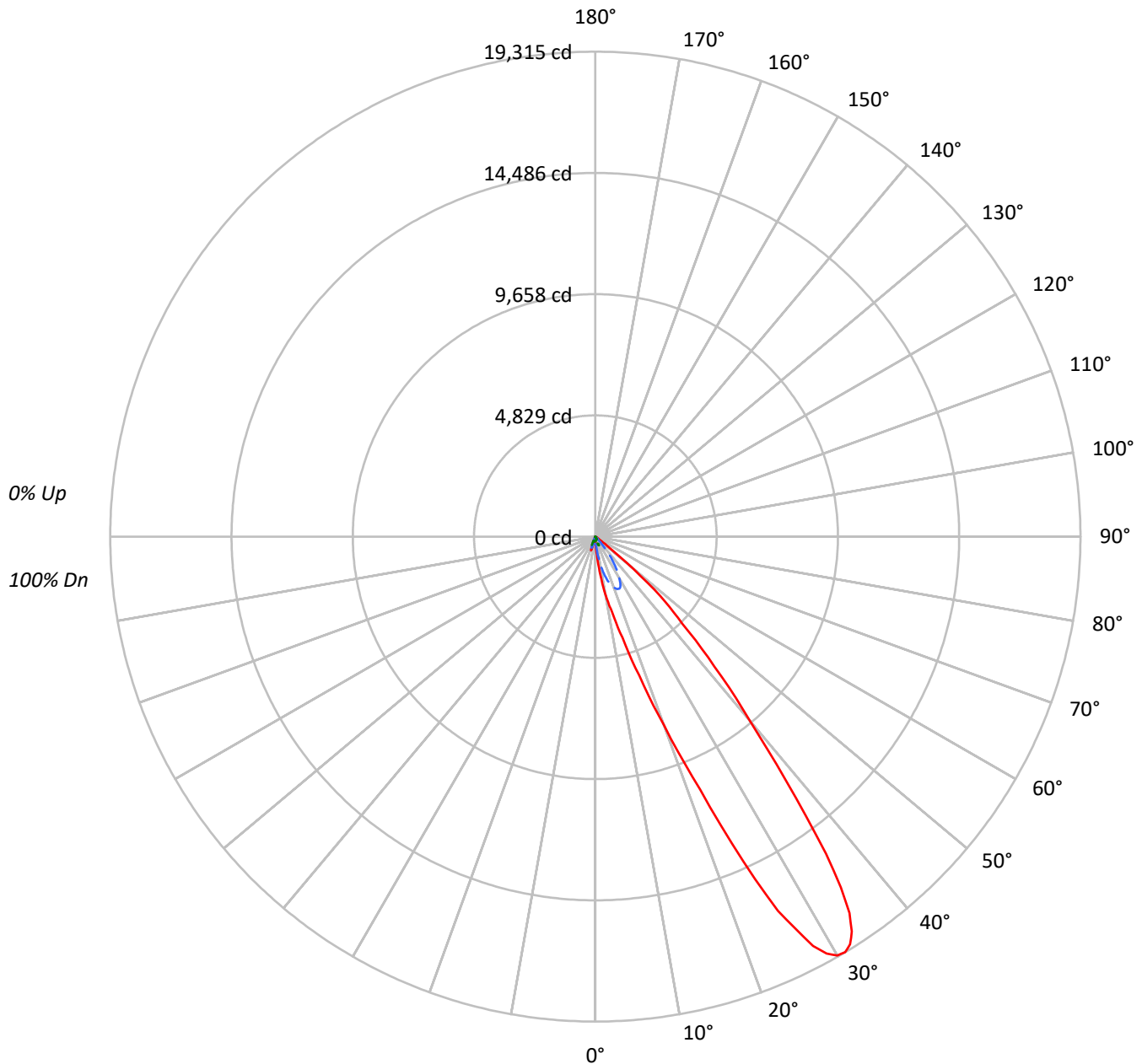
Lumens per Lamp: N/A  
Luminaire Lumens: 3115.9 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Spacing Criteria (0/90/45): 2.52 / 1.04 / 1.28  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 47.1  
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

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### Luminous Intensity Polar Plot



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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  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 102 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 |  | 103 | 101 | 99  |  |  | 99  | 98  | 96  |  |  | 96  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  |  | 95  | 91  | 88  |  |  | 92  | 89  | 86  |  |  | 89  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  |  | 87  | 82  | 78  |  |  | 84  | 80  | 77  |  |  | 82  |
| 4   | 92  | 83  | 77  | 71  | 90  | 82  | 76  | 71  |  | 80  | 74  | 70  |  |  | 78  | 73  | 69  |  |  | 76  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  |  | 73  | 67  | 63  |  |  | 71  | 66  | 62  |  |  | 70  |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  |  | 67  | 61  | 56  |  |  | 65  | 60  | 56  |  |  | 64  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  |  | 62  | 55  | 51  |  |  | 60  | 55  | 50  |  |  | 59  |
| 8   | 70  | 58  | 51  | 46  | 69  | 58  | 51  | 46  |  | 57  | 50  | 46  |  |  | 55  | 50  | 46  |  |  | 54  |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  |  | 52  | 46  | 41  |  |  | 51  | 45  | 41  |  |  | 50  |
| 10  | 61  | 49  | 42  | 38  | 60  | 49  | 42  | 38  |  | 48  | 42  | 38  |  |  | 47  | 41  | 37  |  |  | 46  |

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

|     | 0°      | 90°   | 180°  |
|-----|---------|-------|-------|
| 0°  | 22412   | 22412 | 22412 |
| 5°  | 100564  | 21061 | 13645 |
| 10° | 297678  | 19388 | 17435 |
| 15° | 531436  | 22960 | 49150 |
| 20° | 1052666 | 45180 | 52793 |
| 25° | 2048421 | 29465 | 14998 |
| 30° | 2743861 | 11010 | 5241  |
| 35° | 2567477 | 4653  | 2048  |
| 40° | 1538543 | 2190  | 628   |
| 45° | 853782  | 1343  | 0     |
| 50° | 313206  | 1094  | 0     |
| 55° | 47826   | 839   | 0     |
| 60° | 10484   | 962   | 0     |
| 65° | 3386    | 1138  | 0     |
| 70° | 721     | 1406  | 0     |
| 75° | 0       | 2716  | 0     |
| 80° | 0       | 4049  | 0     |
| 85° | 0       | 8067  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.9   | 1.3       |
| 10°-20°   | 336.6  | 10.8      |
| 20°-30°   | 1004.7 | 32.2      |
| 30°-40°   | 1189.9 | 38.2      |
| 40°-50°   | 493.6  | 15.8      |
| 50°-60°   | 38.4   | 1.2       |
| 60°-70°   | 5.2    | 0.2       |
| 70°-80°   | 4.0    | 0.1       |
| 80°-90°   | 3.7    | 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°    | 1381.2 | 44.3      |
| 0°-40°    | 2571.1 | 82.5      |
| 0°-60°    | 3103.0 | 99.6      |
| 0°-90°    | 3115.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3115.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90° | 135° | 180° | Flux |
|-----|-------|------|-----|------|------|------|
| 0°  | 182   | 182  | 182 | 182  | 182  |      |
| 5°  | 812   | 410  | 170 | 118  | 110  | 129  |
| 15° | 4162  | 1758 | 180 | 269  | 385  | 1374 |
| 25° | 15051 | 2284 | 216 | 126  | 110  | 6875 |
| 35° | 17051 | 1272 | 31  | 17   | 14   | 9881 |
| 45° | 4894  | 112  | 8   | 6    | 0    | 3990 |
| 55° | 222   | 16   | 4   | 2    | 0    | 326  |
| 65° | 12    | 4    | 4   | 4    | 0    | 14   |
| 75° | 0     | 4    | 6   | 4    | 0    | 0    |
| 85° | 0     | 4    | 6   | 4    | 0    | 0    |
| 90° | 0     | 0    | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 2.5°    | 5°      | 7.5°    | 10°     | 12.5°   | 15°     | 17.5°  | 20°    | 22.5°  | 25°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 181.7   | 181.7   | 181.7   | 181.7   | 181.7   | 181.7   | 181.7   | 181.7  | 181.7  | 181.7  | 181.7  |
| 2.5°  | 315.3   | 299.7   | 307.4   | 294.0   | 301.7   | 288.1   | 278.5   | 288.1  | 288.1  | 280.4  | 268.8  |
| 5°    | 812.2   | 808.3   | 823.8   | 787.1   | 796.7   | 756.2   | 721.4   | 731.0  | 723.3  | 698.2  | 653.7  |
| 7.5°  | 1547.0  | 1531.7  | 1549.0  | 1496.8  | 1498.8  | 1431.0  | 1378.9  | 1390.5 | 1355.6 | 1313.1 | 1235.7 |
| 10°   | 2376.7  | 2355.5  | 2374.8  | 2312.9  | 2301.2  | 2206.5  | 2133.1  | 2144.7 | 2065.4 | 1995.8 | 1877.8 |
| 12.5° | 3096.2  | 3094.2  | 3032.3  | 3043.9  | 3020.7  | 2875.7  | 2829.3  | 2833.0 | 2724.8 | 2647.4 | 2506.3 |
| 15°   | 4161.7  | 4202.3  | 4213.9  | 4134.6  | 3991.4  | 3728.5  | 3612.4  | 3568.0 | 3392.0 | 3262.4 | 3059.4 |
| 17.5° | 5799.6  | 5855.7  | 5664.3  | 5710.7  | 5474.7  | 5062.9  | 4832.8  | 4695.5 | 4364.7 | 4121.0 | 3753.6 |
| 20°   | 8019.6  | 7971.4  | 7694.9  | 7660.1  | 7257.7  | 6727.9  | 6244.5  | 5985.3 | 5476.7 | 5120.9 | 4585.2 |
| 22.5° | 10885.7 | 10848.9 | 10375.1 | 10164.3 | 9323.1  | 8576.6  | 7950.0  | 7300.4 | 6544.2 | 6068.4 | 5341.3 |
| 25°   | 15051.2 | 14883.0 | 13970.2 | 13370.6 | 11891.3 | 10622.7 | 9578.4  | 8568.9 | 7410.5 | 6894.3 | 5969.7 |
| 26°   | 16584.8 | 16544.1 | 15592.8 | 14803.7 | 13020.7 | 11446.6 | 10038.6 | 9027.2 | 7750.9 | 7147.6 | 6147.7 |
| 27°   | 17505.2 | 17828.2 | 16942.5 | 16049.1 | 14099.7 | 12214.2 | 10582.0 | 9396.7 | 8015.9 | 7325.4 | 6261.8 |
| 28°   | 18460.6 | 18669.5 | 17876.5 | 16754.9 | 14964.2 | 12825.3 | 10994.0 | 9646.1 | 8178.3 | 7412.5 | 6300.5 |
| 29°   | 18986.5 | 19187.7 | 18451.0 | 17399.0 | 15530.8 | 13221.7 | 11237.7 | 9756.4 | 8238.3 | 7410.5 | 6265.7 |
| 30°   | 19265.0 | 19452.6 | 18733.2 | 17712.1 | 15764.9 | 13345.6 | 11289.8 | 9711.8 | 8180.3 | 7321.6 | 6167.0 |
| 31°   | 19315.4 | 19472.1 | 18762.3 | 17702.5 | 15675.8 | 13192.8 | 11142.9 | 9528.1 | 8025.5 | 7157.2 | 6018.1 |
| 32°   | 19145.2 | 19267.0 | 18545.8 | 17416.3 | 15275.5 | 12806.0 | 10837.3 | 9243.9 | 7789.5 | 6952.3 | 5826.7 |
| 33°   | 18746.8 | 18965.3 | 18085.4 | 16838.1 | 14579.3 | 12233.6 | 10404.2 | 8872.6 | 7495.7 | 6685.4 | 5592.7 |
| 34°   | 18087.3 | 18226.6 | 17315.8 | 15933.0 | 13651.1 | 11537.4 | 9872.3  | 8441.3 | 7159.2 | 6370.1 | 5327.8 |
| 35°   | 17050.9 | 17174.6 | 16167.1 | 14710.9 | 12593.3 | 10752.3 | 9265.1  | 7965.5 | 6782.0 | 6016.2 | 5033.8 |
| 36°   | 15616.0 | 15733.8 | 14679.9 | 13353.3 | 11525.8 | 9934.2  | 8625.0  | 7447.3 | 6374.1 | 5637.2 | 4722.4 |
| 37°   | 13939.2 | 14041.7 | 13103.7 | 12020.9 | 10477.6 | 9106.6  | 7977.1  | 6921.2 | 5942.8 | 5250.5 | 4426.6 |
| 38°   | 12318.6 | 12411.5 | 11653.5 | 10771.6 | 9466.3  | 8298.1  | 7331.3  | 6375.9 | 5497.9 | 4861.7 | 4115.3 |
| 39°   | 10856.6 | 10937.8 | 10326.8 | 9599.7  | 8503.2  | 7522.6  | 6687.3  | 5834.4 | 5051.3 | 4473.1 | 3794.2 |
| 40°   | 9555.2  | 9624.8  | 9122.0  | 8524.5  | 7629.0  | 6797.5  | 6060.8  | 5310.3 | 4614.3 | 4095.9 | 3494.4 |
| 42.5° | 7014.1  | 7029.6  | 6729.8  | 6377.8  | 5681.6  | 5204.1  | 4680.0  | 4138.5 | 3629.9 | 3274.0 | 2891.1 |
| 45°   | 4894.5  | 5086.1  | 4890.8  | 4656.7  | 4157.8  | 3858.1  | 3523.5  | 3196.7 | 2902.7 | 2560.4 | 2181.4 |
| 47.5° | 3519.6  | 3527.3  | 3411.3  | 3264.3  | 2869.8  | 2664.9  | 2390.3  | 1993.8 | 1701.8 | 1216.4 | 903.1  |
| 50°   | 1632.2  | 1541.3  | 1547.0  | 1446.5  | 1289.9  | 1024.9  | 856.7   | 611.1  | 487.3  | 348.1  | 280.4  |
| 51°   | 970.8   | 903.1   | 912.8   | 841.2   | 736.7   | 574.3   | 487.3   | 390.6  | 338.5  | 263.0  | 216.5  |
| 52°   | 566.6   | 543.4   | 541.4   | 508.6   | 433.2   | 398.4   | 352.0   | 294.0  | 257.2  | 203.0  | 168.2  |
| 53°   | 411.8   | 396.5   | 396.5   | 375.2   | 322.9   | 299.7   | 266.9   | 226.2  | 197.3  | 154.8  | 127.6  |
| 54°   | 307.4   | 295.8   | 295.8   | 282.4   | 261.0   | 224.4   | 201.2   | 168.2  | 146.9  | 120.0  | 94.8   |
| 55°   | 222.4   | 214.6   | 214.6   | 204.9   | 189.6   | 162.4   | 145.0   | 121.8  | 108.3  | 87.0   | 69.6   |
| 57.5° | 92.8    | 88.9    | 88.9    | 85.1    | 81.2    | 69.6    | 65.7    | 56.1   | 48.4   | 42.5   | 34.8   |
| 60°   | 42.5    | 40.5    | 42.5    | 40.5    | 36.8    | 38.7    | 32.9    | 28.9   | 27.1   | 23.2   | 19.3   |
| 61°   | 32.9    | 30.9    | 30.9    | 30.9    | 27.1    | 27.1    | 25.2    | 23.2   | 21.2   | 17.3   | 15.5   |
| 62°   | 25.2    | 23.2    | 23.2    | 23.2    | 21.2    | 21.2    | 19.3    | 17.3   | 17.3   | 13.6   | 11.6   |
| 63°   | 19.3    | 17.3    | 17.3    | 17.3    | 15.5    | 15.5    | 15.5    | 13.6   | 13.6   | 11.6   | 9.6    |
| 64°   | 13.6    | 13.6    | 13.6    | 13.6    | 13.6    | 11.6    | 11.6    | 11.6   | 9.6    | 7.7    | 7.7    |
| 65°   | 11.6    | 9.6     | 11.6    | 9.6     | 9.6     | 9.6     | 9.6     | 9.6    | 7.7    | 5.7    | 5.7    |
| 66°   | 7.7     | 7.7     | 7.7     | 7.7     | 7.7     | 7.7     | 7.7     | 7.7    | 7.7    | 5.7    | 3.9    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 72.5° | 0.0 | 0.0  | 0.0 | 0.0  | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 75°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 77.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 80°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 82.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 85°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 2.0   | 2.0 | 2.0   | 2.0 | 2.0   | 2.0 |
| 87.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 2.0 | 2.0   | 2.0 | 2.0   | 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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**CANDELA DISTRIBUTION (continued):**

|       | 27.5°  | 30°    | 32.5°  | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 67.5° | 90°   | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 0°    | 181.7  | 181.7  | 181.7  | 181.7  | 181.7  | 181.7  | 181.7  | 181.7  | 181.7 | 181.7 | 181.7  |
| 2.5°  | 263.0  | 270.8  | 264.9  | 249.4  | 257.2  | 253.3  | 245.6  | 239.8  | 204.9 | 178.0 | 150.8  |
| 5°    | 620.7  | 626.6  | 593.7  | 535.7  | 516.3  | 485.4  | 440.9  | 410.0  | 232.1 | 170.1 | 133.4  |
| 7.5°  | 1173.9 | 1135.2 | 1104.3 | 995.9  | 949.5  | 877.9  | 793.0  | 733.0  | 264.9 | 160.5 | 123.7  |
| 10°   | 1777.3 | 1715.3 | 1651.5 | 1492.9 | 1409.7 | 1299.6 | 1177.7 | 1108.1 | 299.7 | 154.8 | 123.7  |
| 12.5° | 2374.8 | 2291.6 | 2175.6 | 2001.5 | 1883.5 | 1734.6 | 1568.4 | 1444.6 | 324.9 | 158.5 | 143.2  |
| 15°   | 2893.0 | 2792.5 | 2664.9 | 2467.6 | 2330.3 | 2144.7 | 1928.1 | 1757.8 | 336.5 | 179.8 | 199.2  |
| 17.5° | 3457.7 | 3275.9 | 3065.1 | 2813.8 | 2662.9 | 2448.3 | 2204.7 | 1997.6 | 336.5 | 228.2 | 319.0  |
| 20°   | 4107.5 | 3774.9 | 3436.4 | 3084.6 | 2871.8 | 2647.4 | 2386.4 | 2164.0 | 350.1 | 344.2 | 439.0  |
| 22.5° | 4712.8 | 4254.5 | 3776.8 | 3318.4 | 3022.6 | 2778.9 | 2514.0 | 2258.8 | 406.1 | 379.0 | 292.0  |
| 25°   | 5182.7 | 4600.7 | 4037.8 | 3480.9 | 3146.3 | 2875.7 | 2591.3 | 2283.9 | 371.3 | 216.5 | 158.5  |
| 26°   | 5304.6 | 4676.0 | 4090.1 | 3500.3 | 3152.2 | 2873.7 | 2583.6 | 2256.8 | 311.3 | 172.1 | 127.6  |
| 27°   | 5368.3 | 4701.2 | 4093.9 | 3482.8 | 3129.0 | 2840.9 | 2541.2 | 2200.7 | 249.4 | 139.2 | 104.4  |
| 28°   | 5368.3 | 4672.3 | 4053.4 | 3434.5 | 3069.0 | 2778.9 | 2467.6 | 2111.8 | 203.0 | 114.1 | 83.2   |
| 29°   | 5314.2 | 4596.8 | 3972.1 | 3361.1 | 2987.8 | 2692.0 | 2367.1 | 2007.4 | 172.1 | 94.8  | 67.7   |
| 30°   | 5209.8 | 4486.6 | 3863.8 | 3266.3 | 2883.4 | 2593.3 | 2256.8 | 1899.0 | 148.9 | 77.3  | 54.1   |
| 31°   | 5062.9 | 4362.7 | 3730.4 | 3163.8 | 2786.6 | 2502.4 | 2156.3 | 1788.9 | 129.6 | 61.9  | 44.5   |
| 32°   | 4886.9 | 4208.1 | 3593.1 | 3057.4 | 2707.4 | 2417.3 | 2051.8 | 1672.9 | 112.1 | 52.1  | 38.7   |
| 33°   | 4683.9 | 4034.1 | 3450.0 | 2953.0 | 2630.1 | 2320.7 | 1937.8 | 1547.0 | 96.7  | 42.5  | 32.9   |
| 34°   | 4459.5 | 3842.5 | 3303.1 | 2840.9 | 2535.3 | 2198.8 | 1804.3 | 1413.7 | 83.2  | 36.8  | 27.1   |
| 35°   | 4215.8 | 3628.0 | 3152.2 | 2726.8 | 2428.9 | 2063.5 | 1661.3 | 1272.5 | 71.6  | 30.9  | 23.2   |
| 36°   | 3952.9 | 3426.8 | 3005.1 | 2612.6 | 2297.5 | 1916.5 | 1504.5 | 1127.5 | 61.9  | 25.2  | 21.2   |
| 37°   | 3689.7 | 3237.2 | 2860.2 | 2490.8 | 2144.7 | 1750.2 | 1340.1 | 976.6  | 54.1  | 21.2  | 17.3   |
| 38°   | 3440.3 | 3053.5 | 2717.0 | 2349.6 | 1966.7 | 1566.5 | 1170.0 | 825.8  | 46.4  | 19.3  | 15.5   |
| 39°   | 3206.3 | 2875.7 | 2570.1 | 2181.4 | 1783.0 | 1388.5 | 1005.6 | 669.1  | 40.5  | 17.3  | 13.6   |
| 40°   | 2995.5 | 2707.4 | 2409.6 | 1993.8 | 1593.4 | 1206.8 | 839.4  | 498.9  | 34.8  | 13.6  | 11.6   |
| 42.5° | 2550.8 | 2245.2 | 1852.6 | 1390.5 | 1077.2 | 700.1  | 390.6  | 185.7  | 25.2  | 9.6   | 9.6    |
| 45°   | 1684.5 | 1295.7 | 879.9  | 524.1  | 353.8  | 212.8  | 158.5  | 112.1  | 19.3  | 7.7   | 7.7    |
| 47.5° | 562.7  | 357.7  | 261.0  | 187.6  | 160.5  | 127.6  | 102.5  | 69.6   | 13.6  | 5.7   | 5.7    |
| 50°   | 214.6  | 174.1  | 143.2  | 108.3  | 96.7   | 77.3   | 61.9   | 40.5   | 9.6   | 5.7   | 5.7    |
| 51°   | 168.2  | 137.3  | 112.1  | 85.1   | 77.3   | 61.9   | 50.3   | 34.8   | 7.7   | 5.7   | 5.7    |
| 52°   | 129.6  | 106.4  | 87.0   | 65.7   | 61.9   | 50.3   | 42.5   | 28.9   | 7.7   | 3.9   | 5.7    |
| 53°   | 98.6   | 81.2   | 65.7   | 50.3   | 48.4   | 40.5   | 34.8   | 23.2   | 5.7   | 3.9   | 5.7    |
| 54°   | 73.5   | 61.9   | 52.1   | 40.5   | 40.5   | 34.8   | 28.9   | 19.3   | 5.7   | 3.9   | 5.7    |
| 55°   | 56.1   | 46.4   | 40.5   | 30.9   | 32.9   | 28.9   | 25.2   | 15.5   | 5.7   | 3.9   | 5.7    |
| 57.5° | 28.9   | 27.1   | 23.2   | 19.3   | 21.2   | 19.3   | 17.3   | 9.6    | 5.7   | 3.9   | 5.7    |
| 60°   | 17.3   | 15.5   | 13.6   | 11.6   | 13.6   | 13.6   | 13.6   | 5.7    | 5.7   | 3.9   | 5.7    |
| 61°   | 13.6   | 11.6   | 9.6    | 9.6    | 11.6   | 11.6   | 11.6   | 5.7    | 5.7   | 3.9   | 5.7    |
| 62°   | 9.6    | 9.6    | 7.7    | 7.7    | 11.6   | 9.6    | 9.6    | 5.7    | 5.7   | 3.9   | 5.7    |
| 63°   | 7.7    | 7.7    | 7.7    | 5.7    | 9.6    | 9.6    | 9.6    | 5.7    | 5.7   | 3.9   | 5.7    |
| 64°   | 5.7    | 5.7    | 5.7    | 5.7    | 7.7    | 9.6    | 9.6    | 3.9    | 5.7   | 3.9   | 5.7    |
| 65°   | 5.7    | 5.7    | 3.9    | 3.9    | 7.7    | 7.7    | 7.7    | 3.9    | 5.7   | 3.9   | 5.7    |
| 66°   | 3.9    | 3.9    | 3.9    | 3.9    | 7.7    | 7.7    | 7.7    | 3.9    | 5.7   | 3.9   | 5.7    |



TEST NUMBER: P1191905

CATALOG NUMBER: LDA4A35935D010TE LAR15SP 4LA1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 67.5° | 90° | 112.5° |
|-------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|--------|
| 72.5° | 2.0   | 2.0 | 2.0   | 2.0 | 5.7   | 5.7 | 7.7   | 3.9 | 5.7   | 5.7 | 5.7    |
| 75°   | 2.0   | 2.0 | 2.0   | 2.0 | 5.7   | 5.7 | 7.7   | 3.9 | 5.7   | 5.7 | 5.7    |
| 77.5° | 2.0   | 2.0 | 2.0   | 2.0 | 5.7   | 5.7 | 7.7   | 3.9 | 5.7   | 5.7 | 7.7    |
| 80°   | 2.0   | 2.0 | 2.0   | 2.0 | 5.7   | 5.7 | 7.7   | 3.9 | 5.7   | 5.7 | 7.7    |
| 82.5° | 2.0   | 2.0 | 2.0   | 2.0 | 5.7   | 5.7 | 7.7   | 3.9 | 5.7   | 5.7 | 7.7    |
| 85°   | 2.0   | 2.0 | 2.0   | 2.0 | 5.7   | 5.7 | 7.7   | 3.9 | 5.7   | 5.7 | 7.7    |
| 87.5° | 2.0   | 2.0 | 2.0   | 2.0 | 5.7   | 5.7 | 7.7   | 3.9 | 5.7   | 5.7 | 5.7    |
| 90°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0    |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1191905

CATALOG NUMBER: LDA4A35935D010TE LAR15SP 4LA1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 135°  | 157.5° | 180°  |
|-------|-------|--------|-------|
| 0°    | 181.7 | 181.7  | 181.7 |
| 2.5°  | 137.3 | 131.6  | 127.6 |
| 5°    | 118.0 | 112.1  | 110.2 |
| 7.5°  | 110.2 | 108.3  | 110.2 |
| 10°   | 121.8 | 129.6  | 139.2 |
| 12.5° | 162.4 | 191.4  | 206.9 |
| 15°   | 268.8 | 350.1  | 384.9 |
| 17.5° | 473.8 | 539.5  | 578.2 |
| 20°   | 417.7 | 381.0  | 402.2 |
| 22.5° | 226.2 | 197.3  | 203.0 |
| 25°   | 125.7 | 108.3  | 110.2 |
| 26°   | 100.5 | 87.0   | 87.0  |
| 27°   | 81.2  | 69.6   | 69.6  |
| 28°   | 65.7  | 56.1   | 56.1  |
| 29°   | 52.1  | 44.5   | 44.5  |
| 30°   | 42.5  | 36.8   | 36.8  |
| 31°   | 34.8  | 28.9   | 28.9  |
| 32°   | 28.9  | 25.2   | 23.2  |
| 33°   | 25.2  | 21.2   | 19.3  |
| 34°   | 21.2  | 17.3   | 15.5  |
| 35°   | 17.3  | 13.6   | 13.6  |
| 36°   | 15.5  | 11.6   | 11.6  |
| 37°   | 13.6  | 9.6    | 9.6   |
| 38°   | 11.6  | 7.7    | 7.7   |
| 39°   | 9.6   | 7.7    | 5.7   |
| 40°   | 7.7   | 5.7    | 3.9   |
| 42.5° | 5.7   | 3.9    | 2.0   |
| 45°   | 5.7   | 2.0    | 0.0   |
| 47.5° | 3.9   | 2.0    | 0.0   |
| 50°   | 3.9   | 0.0    | 0.0   |
| 51°   | 3.9   | 0.0    | 0.0   |
| 52°   | 3.9   | 0.0    | 0.0   |
| 53°   | 2.0   | 0.0    | 0.0   |
| 54°   | 3.9   | 0.0    | 0.0   |
| 55°   | 2.0   | 0.0    | 0.0   |
| 57.5° | 3.9   | 0.0    | 0.0   |
| 60°   | 3.9   | 0.0    | 0.0   |
| 61°   | 3.9   | 0.0    | 0.0   |
| 62°   | 3.9   | 0.0    | 0.0   |
| 63°   | 3.9   | 0.0    | 0.0   |
| 64°   | 3.9   | 2.0    | 0.0   |
| 65°   | 3.9   | 2.0    | 0.0   |
| 66°   | 3.9   | 2.0    | 0.0   |



TEST NUMBER: P1191905

CATALOG NUMBER: LDA4A35935D010TE LAR15SP 4LA1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 72.5° | 3.9  | 2.0    | 0.0  |
| 75°   | 3.9  | 2.0    | 0.0  |
| 77.5° | 3.9  | 2.0    | 0.0  |
| 80°   | 3.9  | 2.0    | 0.0  |
| 82.5° | 3.9  | 2.0    | 0.0  |
| 85°   | 3.9  | 2.0    | 0.0  |
| 87.5° | 3.9  | 2.0    | 0.0  |
| 90°   | 0.0  | 0.0    | 0.0  |

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

Scaled Data Report





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

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1121 Highway 74 South

Peachtree City, GA 30269

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Peachtree City, GA 30269

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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 3.9 | 3.9 |
| 70°   | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 3.9 | 3.9 | 2.0 | 2.0 |

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1121 Highway 74 South

Peachtree City, GA 30269

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Scaled Data Report



|       |     |     |     |     |     |     |     |     |     |     |     |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 67.5° | 3.9 | 2.0 | 3.9 | 3.9 | 5.7 | 7.7 | 7.7 | 3.9 | 5.7 | 3.9 | 5.7 |
| 70°   | 2.0 | 2.0 | 2.0 | 2.0 | 5.7 | 5.7 | 7.7 | 3.9 | 5.7 | 3.9 | 5.7 |

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|       |     |     |     |
|-------|-----|-----|-----|
| 67.5° | 3.9 | 2.0 | 0.0 |
| 70°   | 3.9 | 2.0 | 0.0 |

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(END OF REPORT)