

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: P1191547

Luminaire Tested: **LDA4A15935D010TE LAR15SP 4LAL1 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: P1191547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26104)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A15935D010TE LAR15SP 4LAL1 30° Tilt  
Description: PORTFOLIO 4" Lensed Adjustable, Self-flanged, 15° Spot Optic, at 30° tilt. --- 27.9W  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

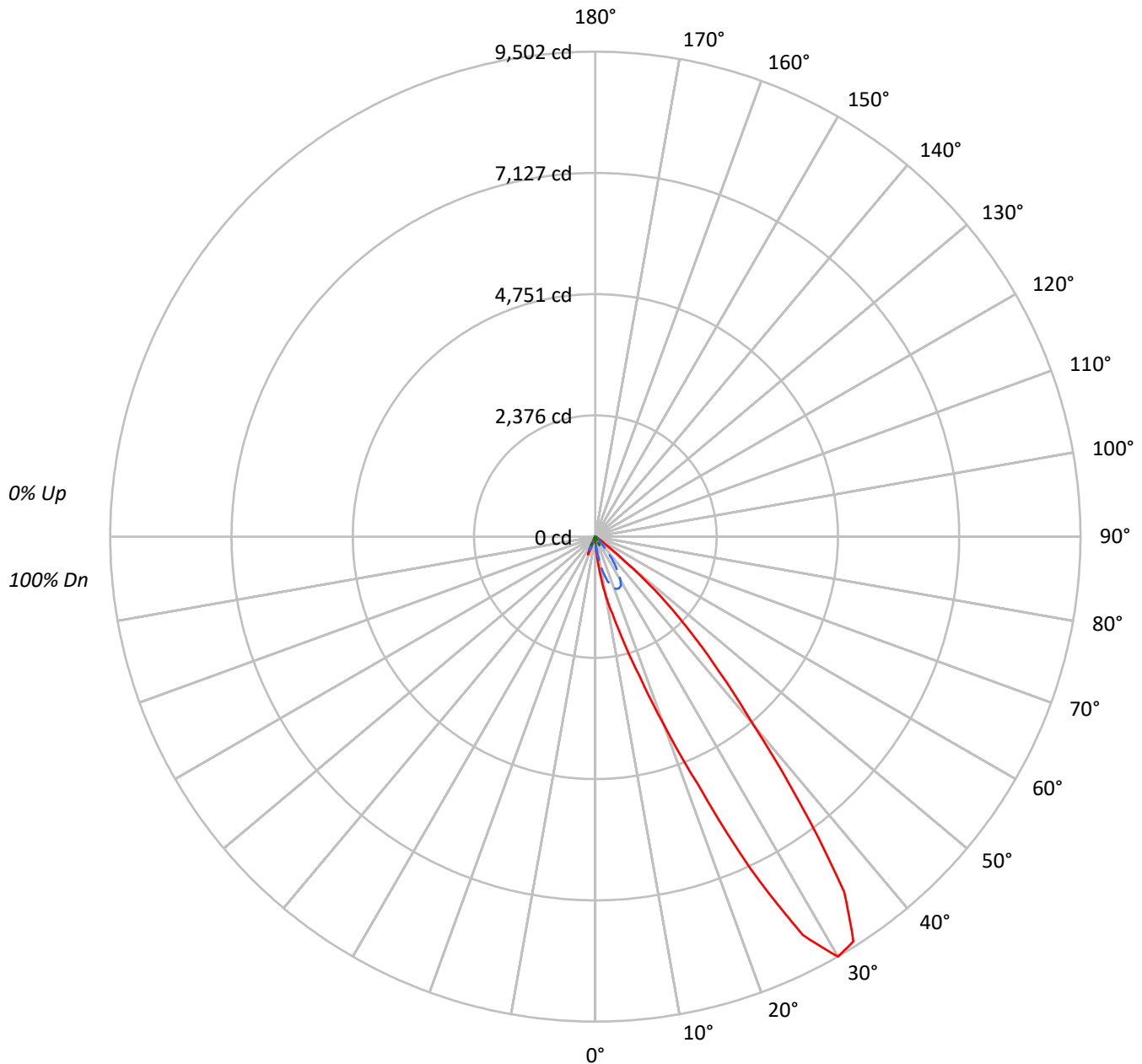
Lumens per Lamp: N/A  
Luminaire Lumens: 1644.8 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 2.57 / 1.16 / 1.36  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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: P1191547

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### Luminous Intensity Polar Plot



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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  |     |    |    | 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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |   |  |  |  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 89  | 86  | 84  | 82  |    |    |   |  |  |  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 76  | 74  |    |    |   |  |  |  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 70  | 79  | 74  | 70  | 77  | 72  | 69  | 75  | 71  | 68  | 66  |    |    |   |  |  |  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 73  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |   |  |  |  |
| 6   | 80  | 69  | 62  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  | 65  | 59  | 55  | 63  | 59  | 55  | 53  |    |    |   |  |  |  |
| 7   | 74  | 63  | 56  | 51  | 73  | 62  | 55  | 50  | 61  | 55  | 50  | 60  | 54  | 50  | 58  | 53  | 49  | 48  |    |    |   |  |  |  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 48  | 45  | 43  |    |    |   |  |  |  |
| 9   | 65  | 53  | 46  | 41  | 64  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 40  | 49  | 44  | 40  | 39  |    |    |   |  |  |  |
| 10  | 61  | 49  | 42  | 37  | 59  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 46  | 40  | 36  | 35  |    |    |   |  |  |  |

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

|     | 0°      | 90°   | 180°  |
|-----|---------|-------|-------|
| 0°  | 9572    | 9572  | 9572  |
| 5°  | 50480   | 9051  | 4792  |
| 10° | 147655  | 7690  | 3156  |
| 15° | 268597  | 6449  | 3576  |
| 20° | 512419  | 7338  | 17392 |
| 25° | 973855  | 25532 | 38420 |
| 30° | 1353301 | 8603  | 7463  |
| 35° | 1278882 | 3945  | 2861  |
| 40° | 775116  | 1739  | 1014  |
| 45° | 454234  | 959   | 314   |
| 50° | 150750  | 672   | 0     |
| 55° | 28709   | 581   | 0     |
| 60° | 6463    | 444   | 0     |
| 65° | 1839    | 788   | 0     |
| 70° | 649     | 974   | 0     |
| 75° | 0       | 1287  | 0     |
| 80° | 0       | 1918  | 0     |
| 85° | 0       | 3821  | 1415  |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 18.5   | 1.1       |
| 10°-20°   | 151.3  | 9.2       |
| 20°-30°   | 536.7  | 32.6      |
| 30°-40°   | 636.3  | 38.7      |
| 40°-50°   | 270.7  | 16.5      |
| 50°-60°   | 24.5   | 1.5       |
| 60°-70°   | 3.0    | 0.2       |
| 70°-80°   | 2.0    | 0.1       |
| 80°-90°   | 1.8    | 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°    | 706.5  | 43.0      |
| 0°-40°    | 1342.8 | 81.6      |
| 0°-60°    | 1637.9 | 99.6      |
| 0°-90°    | 1644.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1644.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 78   | 78   | 78  | 78   | 78   |      |
| 5°  | 408  | 201  | 73  | 46   | 39   | 63   |
| 15° | 2103 | 886  | 50  | 28   | 28   | 679  |
| 25° | 7156 | 1110 | 188 | 295  | 282  | 3315 |
| 35° | 8493 | 656  | 26  | 20   | 19   | 4906 |
| 45° | 2604 | 72   | 6   | 4    | 2    | 2041 |
| 55° | 134  | 11   | 3   | 2    | 0    | 187  |
| 65° | 6    | 3    | 3   | 2    | 0    | 9    |
| 75° | 0    | 2    | 3   | 3    | 0    | 0    |
| 85° | 0    | 2    | 3   | 3    | 1    | 0    |
| 90° | 0    | 0    | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 2°     | 3°     | 4°     | 5°     | 6°     | 7°     | 8°     | 9°     | 10°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   |
| 2.5°  | 142.5  | 134.5  | 139.8  | 138.0  | 139.0  | 141.5  | 139.0  | 139.0  | 138.0  | 134.5  | 134.5  |
| 5°    | 407.7  | 383.3  | 395.0  | 388.8  | 392.3  | 396.8  | 390.5  | 388.8  | 386.0  | 378.0  | 376.1  |
| 7.5°  | 759.5  | 745.9  | 760.4  | 749.6  | 759.5  | 761.3  | 752.3  | 750.4  | 745.9  | 734.2  | 729.7  |
| 10°   | 1178.9 | 1156.4 | 1169.9 | 1158.1 | 1173.5 | 1172.6 | 1158.1 | 1159.9 | 1154.6 | 1139.2 | 1132.0 |
| 12.5° | 1550.6 | 1532.5 | 1546.0 | 1512.7 | 1550.6 | 1526.2 | 1528.9 | 1532.5 | 1525.2 | 1505.5 | 1496.5 |
| 15°   | 2103.4 | 2053.9 | 2077.4 | 2019.6 | 2077.4 | 2069.2 | 2037.6 | 2035.8 | 2016.8 | 1983.6 | 1963.6 |
| 17.5° | 2837.7 | 2851.2 | 2834.1 | 2799.8 | 2876.5 | 2855.7 | 2810.6 | 2801.6 | 2765.5 | 2674.4 | 2672.6 |
| 20°   | 3903.8 | 3885.8 | 3914.7 | 3806.5 | 3904.8 | 3809.2 | 3796.5 | 3771.3 | 3709.9 | 3582.7 | 3562.9 |
| 22.5° | 5268.6 | 5278.5 | 5227.1 | 5152.2 | 5273.1 | 5125.1 | 5080.1 | 5019.6 | 4907.7 | 4712.1 | 4650.7 |
| 25°   | 7155.6 | 7142.9 | 7076.2 | 6951.7 | 7080.7 | 6841.7 | 6728.9 | 6604.4 | 6396.0 | 6091.2 | 5944.1 |
| 27.5° | 8799.8 | 8851.3 | 8807.1 | 8680.8 | 8766.6 | 8531.1 | 8271.3 | 8191.9 | 7909.7 | 7525.4 | 7260.2 |
| 30°   | 9501.7 | 9526.0 | 9507.0 | 9410.6 | 9441.2 | 9247.3 | 8990.2 | 8896.4 | 8606.9 | 8243.3 | 7899.7 |
| 32.5° | 9405.2 | 9416.9 | 9420.4 | 9291.4 | 9296.9 | 9113.8 | 8845.0 | 8706.2 | 8390.3 | 8040.4 | 7630.0 |
| 35°   | 8493.2 | 8542.0 | 8573.5 | 8452.7 | 8332.7 | 8150.5 | 7845.6 | 7630.0 | 7298.1 | 6978.7 | 6559.4 |
| 37.5° | 6577.4 | 6638.7 | 6687.4 | 6584.6 | 6527.7 | 6307.7 | 6054.2 | 5887.4 | 5658.3 | 5470.7 | 5173.0 |
| 40°   | 4813.9 | 4825.6 | 4855.5 | 4802.2 | 4713.8 | 4655.2 | 4510.0 | 4415.3 | 4276.4 | 4175.3 | 3977.9 |
| 42.5° | 3578.2 | 3571.9 | 3592.6 | 3562.9 | 3560.2 | 3471.8 | 3379.8 | 3323.9 | 3276.0 | 3169.6 | 3030.7 |
| 45°   | 2604.0 | 2605.9 | 2625.7 | 2606.7 | 2556.3 | 2537.3 | 2476.9 | 2426.3 | 2363.2 | 2329.9 | 2219.9 |
| 47.5° | 1770.7 | 1776.0 | 1789.5 | 1778.7 | 1732.8 | 1725.6 | 1686.7 | 1636.2 | 1635.3 | 1583.9 | 1487.5 |
| 50°   | 785.6  | 787.5  | 803.7  | 800.0  | 745.1  | 752.3  | 727.0  | 681.0  | 693.7  | 663.0  | 589.0  |
| 52.5° | 260.7  | 261.5  | 264.3  | 262.5  | 253.5  | 253.5  | 247.1  | 246.3  | 239.0  | 231.8  | 215.6  |
| 55°   | 133.5  | 133.5  | 135.3  | 134.5  | 130.0  | 130.0  | 122.7  | 127.2  | 123.5  | 120.8  | 111.0  |
| 57.5° | 56.9   | 56.9   | 57.7   | 57.7   | 55.0   | 57.7   | 55.0   | 55.0   | 53.2   | 52.4   | 48.7   |
| 60°   | 26.2   | 26.2   | 26.2   | 26.2   | 25.2   | 27.0   | 25.2   | 25.2   | 25.2   | 24.4   | 22.5   |
| 62.5° | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 12.7   | 12.7   | 12.7   | 11.7   |
| 65°   | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    | 7.2    | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    |
| 67.5° | 2.7    | 2.7    | 2.7    | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    | 2.7    | 2.7    | 2.7    |
| 70°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.0    |
| 72.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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):**

|       | 11°    | 12°    | 13°    | 14°    | 15°    | 17.5°  | 20°    | 22.5°  | 45°    | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6   | 77.6  | 77.6  |
| 2.5°  | 135.3  | 130.8  | 137.0  | 131.7  | 135.3  | 131.7  | 127.2  | 129.0  | 103.8  | 86.6  | 76.6  |
| 5°    | 377.0  | 363.5  | 375.3  | 363.5  | 364.4  | 358.1  | 340.9  | 339.1  | 201.1  | 98.3  | 73.1  |
| 7.5°  | 709.9  | 708.0  | 722.5  | 707.2  | 705.4  | 690.0  | 658.5  | 645.8  | 364.4  | 115.5 | 67.6  |
| 10°   | 1127.5 | 1101.3 | 1114.0 | 1097.7 | 1092.3 | 1064.3 | 1019.3 | 994.9  | 542.0  | 132.5 | 61.4  |
| 12.5° | 1471.1 | 1461.3 | 1470.3 | 1454.9 | 1449.5 | 1411.6 | 1358.5 | 1326.0 | 724.4  | 142.5 | 55.0  |
| 15°   | 1920.4 | 1900.5 | 1906.8 | 1875.3 | 1859.1 | 1786.9 | 1695.8 | 1636.2 | 885.8  | 141.5 | 50.5  |
| 17.5° | 2605.9 | 2567.1 | 2563.5 | 2509.4 | 2469.7 | 2338.9 | 2175.7 | 2053.0 | 1003.9 | 130.8 | 48.7  |
| 20°   | 3464.6 | 3394.2 | 3370.8 | 3285.1 | 3218.3 | 3001.9 | 2750.2 | 2550.8 | 1077.8 | 116.3 | 55.9  |
| 22.5° | 4493.7 | 4370.2 | 4300.8 | 4163.6 | 4049.1 | 3701.7 | 3332.9 | 3034.4 | 1110.4 | 111.8 | 80.3  |
| 25°   | 5693.5 | 5481.4 | 5334.4 | 5118.8 | 4925.9 | 4392.7 | 3874.9 | 3456.4 | 1110.4 | 145.2 | 187.6 |
| 27.5° | 6910.2 | 6575.6 | 6304.9 | 5990.2 | 5697.0 | 4941.1 | 4273.6 | 3728.9 | 1083.3 | 181.4 | 171.4 |
| 30°   | 7526.3 | 7114.9 | 6747.0 | 6379.0 | 6010.9 | 5102.6 | 4363.0 | 3762.3 | 981.4  | 106.5 | 60.4  |
| 32.5° | 7264.7 | 6830.9 | 6424.0 | 6067.8 | 5704.2 | 4817.6 | 4121.2 | 3541.2 | 824.5  | 62.2  | 38.7  |
| 35°   | 6261.7 | 5885.6 | 5532.0 | 5265.8 | 4982.6 | 4282.6 | 3659.5 | 3154.2 | 655.8  | 48.7  | 26.2  |
| 37.5° | 4998.0 | 4741.8 | 4490.2 | 4319.7 | 4116.7 | 3590.9 | 3088.5 | 2674.4 | 469.1  | 35.2  | 16.2  |
| 40°   | 3876.8 | 3701.7 | 3526.0 | 3417.7 | 3274.2 | 2890.9 | 2499.4 | 2170.2 | 277.0  | 24.4  | 10.8  |
| 42.5° | 2969.3 | 2848.5 | 2717.7 | 2642.9 | 2540.1 | 2254.1 | 1948.4 | 1715.6 | 128.0  | 17.2  | 8.2   |
| 45°   | 2182.8 | 2093.6 | 1993.4 | 1945.6 | 1873.5 | 1684.9 | 1482.0 | 1317.8 | 72.1   | 12.7  | 5.5   |
| 47.5° | 1469.3 | 1390.0 | 1297.1 | 1267.4 | 1197.8 | 1032.8 | 825.3  | 663.8  | 47.9   | 9.0   | 4.5   |
| 50°   | 584.5  | 532.2  | 500.6  | 459.1  | 418.5  | 350.9  | 262.5  | 209.3  | 28.9   | 7.2   | 3.5   |
| 52.5° | 214.6  | 202.9  | 197.6  | 186.7  | 177.7  | 158.7  | 134.5  | 116.3  | 17.2   | 5.5   | 2.7   |
| 55°   | 111.8  | 104.6  | 101.0  | 97.4   | 92.0   | 81.1   | 67.6   | 57.7   | 10.8   | 3.5   | 2.7   |
| 57.5° | 48.7   | 46.0   | 46.9   | 43.4   | 40.6   | 37.0   | 32.5   | 28.0   | 7.2    | 3.5   | 2.7   |
| 60°   | 23.5   | 21.7   | 22.5   | 20.7   | 19.9   | 19.0   | 17.2   | 14.5   | 4.5    | 2.7   | 1.8   |
| 62.5° | 11.7   | 11.7   | 11.7   | 10.8   | 10.8   | 10.0   | 9.0    | 8.2    | 3.5    | 2.7   | 2.7   |
| 65°   | 6.3    | 5.5    | 6.3    | 5.5    | 5.5    | 5.5    | 4.5    | 4.5    | 2.7    | 2.7   | 2.7   |
| 67.5° | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 1.8    | 2.7   | 2.7   |
| 70°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 1.0    | 1.8    | 1.8    | 2.7   | 2.7   |
| 72.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.8    | 2.7   | 2.7   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.8    | 2.7   | 2.7   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.8    | 2.7   | 2.7   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.8    | 2.7   | 2.7   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.8    | 2.7   | 2.7   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.8    | 2.7   | 2.7   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.8    | 2.7   | 2.7   |
| 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: LDA4A15935D010TE LAR15SP 4LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 77.6   | 77.6  | 77.6   | 77.6  |
| 2.5°  | 64.9   | 57.7  | 52.4   | 51.4  |
| 5°    | 55.0   | 46.0  | 39.7   | 38.7  |
| 7.5°  | 46.9   | 37.0  | 31.6   | 30.7  |
| 10°   | 41.5   | 31.6  | 26.2   | 25.2  |
| 12.5° | 37.0   | 28.0  | 24.4   | 23.5  |
| 15°   | 34.2   | 28.0  | 27.0   | 28.0  |
| 17.5° | 37.0   | 37.9  | 41.5   | 46.0  |
| 20°   | 61.4   | 87.5  | 113.6  | 132.5 |
| 22.5° | 138.0  | 255.3 | 338.2  | 378.0 |
| 25°   | 260.7  | 295.0 | 295.9  | 282.3 |
| 27.5° | 141.5  | 112.8 | 101.0  | 95.6  |
| 30°   | 55.9   | 53.2  | 53.2   | 52.4  |
| 32.5° | 37.0   | 34.2  | 33.4   | 32.5  |
| 35°   | 22.5   | 19.9  | 19.0   | 19.0  |
| 37.5° | 14.5   | 12.7  | 11.7   | 10.8  |
| 40°   | 10.0   | 8.2   | 7.2    | 6.3   |
| 42.5° | 7.2    | 5.5   | 3.5    | 3.5   |
| 45°   | 5.5    | 3.5   | 1.8    | 1.8   |
| 47.5° | 4.5    | 2.7   | 1.0    | 1.0   |
| 50°   | 3.5    | 1.8   | 1.0    | 0.0   |
| 52.5° | 2.7    | 1.8   | 0.0    | 0.0   |
| 55°   | 2.7    | 1.8   | 0.0    | 0.0   |
| 57.5° | 2.7    | 1.8   | 0.0    | 0.0   |
| 60°   | 2.7    | 1.8   | 0.0    | 0.0   |
| 62.5° | 2.7    | 1.8   | 0.0    | 0.0   |
| 65°   | 2.7    | 1.8   | 1.0    | 0.0   |
| 67.5° | 3.5    | 1.8   | 1.0    | 0.0   |
| 70°   | 3.5    | 1.8   | 1.0    | 0.0   |
| 72.5° | 3.5    | 1.8   | 1.0    | 0.0   |
| 75°   | 3.5    | 2.7   | 1.0    | 0.0   |
| 77.5° | 3.5    | 2.7   | 1.0    | 0.0   |
| 80°   | 3.5    | 2.7   | 1.0    | 0.0   |
| 82.5° | 3.5    | 2.7   | 1.0    | 0.0   |
| 85°   | 3.5    | 2.7   | 1.0    | 1.0   |
| 87.5° | 3.5    | 2.7   | 1.0    | 0.0   |
| 90°   | 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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(END OF REPORT)