

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: P1191664

Luminaire Tested: **LDA4A20940D010TE LAR25NF 4LLWW1**

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: P1191664  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26102)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A20940D010TE LAR25NF 4LLWW1  
Description: PORTFOLIO 4" Lensed Wall Wash, Self-flanged, 25° Narrow Flood Optic,  
at 30° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

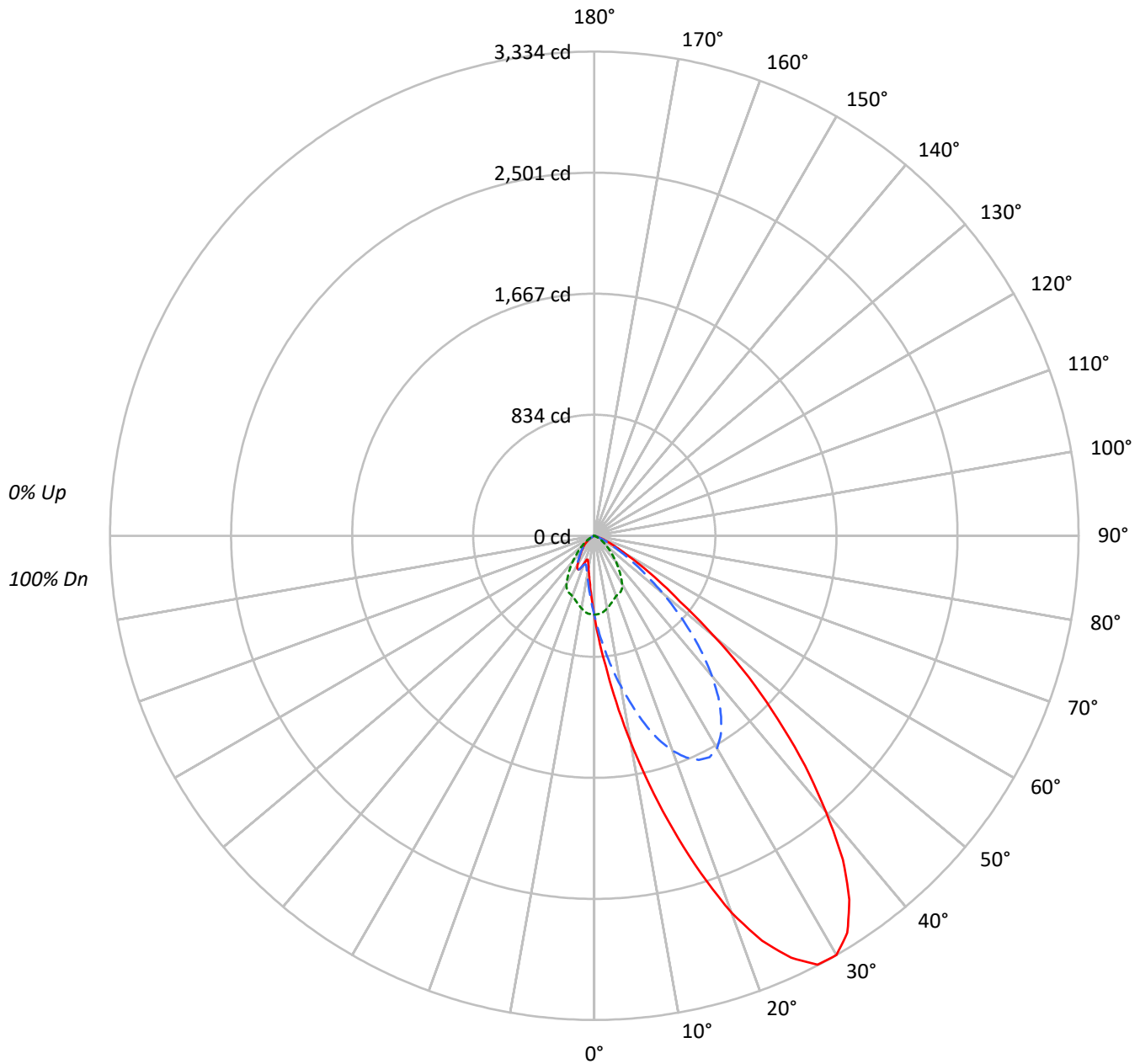
Lumens per Lamp: N/A  
Luminaire Lumens: 1958.8 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 2.11 / 1.09 / 1.54  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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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CATALOG NUMBER: LDA4A20940D010TE LAR25NF 4LLWW1

### 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  | 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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  | 90  | 86  | 84  | 87  | 84  | 82  | 80  |    |    |
| 3   | 97  | 89  | 82  | 77  | 95  | 87  | 81  | 76  | 84  | 79  | 75  | 82  | 77  | 74  | 79  | 76  | 73  | 71  |    |    |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 68  | 65  | 63  |    |    |
| 5   | 83  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 63  | 59  | 68  | 62  | 58  | 66  | 61  | 58  | 56  |    |    |
| 6   | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 52  | 50  |    |    |
| 7   | 72  | 60  | 53  | 47  | 71  | 60  | 52  | 47  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 50  | 46  | 45  |    |    |
| 8   | 67  | 55  | 48  | 43  | 66  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 9   | 63  | 51  | 43  | 38  | 62  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |
| 10  | 59  | 47  | 40  | 35  | 58  | 46  | 39  | 35  | 45  | 39  | 35  | 45  | 39  | 34  | 44  | 38  | 34  | 33  |    |    |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 66989  | 66989 | 66989 |
| 5°  | 111447 | 66440 | 41825 |
| 10° | 180433 | 63551 | 28256 |
| 15° | 266810 | 60222 | 21989 |
| 20° | 362440 | 57900 | 25950 |
| 25° | 436340 | 58113 | 35222 |
| 30° | 474796 | 54464 | 32872 |
| 35° | 460887 | 45881 | 26291 |
| 40° | 399240 | 36953 | 21544 |
| 45° | 311335 | 28468 | 18455 |
| 50° | 206476 | 21281 | 14200 |
| 55° | 115157 | 15634 | 8494  |
| 60° | 60686  | 10386 | 3454  |
| 65° | 32747  | 5195  | 379   |
| 70° | 15616  | 1839  | 469   |
| 75° | 5433   | 1239  | 620   |
| 80° | 1847   | 1847  | 0     |
| 85° | 5378   | 3680  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.9   | 3.0       |
| 10°-20°   | 228.6  | 11.7      |
| 20°-30°   | 470.2  | 24.0      |
| 30°-40°   | 561.6  | 28.7      |
| 40°-50°   | 414.7  | 21.2      |
| 50°-60°   | 174.5  | 8.9       |
| 60°-70°   | 42.9   | 2.2       |
| 70°-80°   | 5.9    | 0.3       |
| 80°-90°   | 2.4    | 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°    | 756.8  | 38.6      |
| 0°-40°    | 1318.4 | 67.3      |
| 0°-60°    | 1907.7 | 97.4      |
| 0°-90°    | 1958.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1958.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 543  | 543  | 543 | 543  | 543  |      |
| 5°  | 900  | 775  | 537 | 385  | 338  | 103  |
| 15° | 2089 | 1341 | 472 | 214  | 172  | 613  |
| 25° | 3206 | 1703 | 427 | 258  | 259  | 1466 |
| 35° | 3061 | 1522 | 305 | 182  | 175  | 1877 |
| 45° | 1785 | 938  | 163 | 107  | 106  | 1370 |
| 55° | 536  | 348  | 73  | 46   | 40   | 511  |
| 65° | 112  | 76   | 18  | 4    | 1    | 122  |
| 75° | 11   | 6    | 3   | 1    | 1    | 16   |
| 85° | 4    | 4    | 3   | 1    | 0    | 3    |
| 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°    | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  |
| 2.5°  | 706.2  | 697.4  | 697.4  | 699.8  | 707.5  | 701.1  | 696.0  | 691.0  | 696.0  | 684.6  | 688.4  |
| 5°    | 900.1  | 898.8  | 898.8  | 888.5  | 897.5  | 898.8  | 888.5  | 879.7  | 882.1  | 865.6  | 865.6  |
| 7.5°  | 1154.9 | 1147.4 | 1144.8 | 1130.7 | 1141.0 | 1139.7 | 1123.1 | 1107.9 | 1107.9 | 1081.1 | 1074.7 |
| 10°   | 1440.6 | 1430.3 | 1425.3 | 1407.4 | 1416.3 | 1411.2 | 1387.0 | 1364.0 | 1357.6 | 1319.4 | 1305.4 |
| 12.5° | 1755.4 | 1749.0 | 1741.4 | 1718.5 | 1726.1 | 1715.9 | 1681.4 | 1648.4 | 1634.3 | 1583.4 | 1559.1 |
| 15°   | 2089.4 | 2099.6 | 2086.8 | 2060.1 | 2065.1 | 2047.3 | 2002.7 | 1956.8 | 1935.1 | 1866.3 | 1830.7 |
| 17.5° | 2433.6 | 2446.4 | 2432.3 | 2401.8 | 2400.5 | 2376.3 | 2315.0 | 2259.0 | 2227.2 | 2139.1 | 2091.9 |
| 20°   | 2761.2 | 2765.1 | 2747.3 | 2714.1 | 2706.4 | 2673.3 | 2599.3 | 2520.4 | 2489.7 | 2381.4 | 2321.4 |
| 22.5° | 3018.8 | 3032.8 | 3011.1 | 2986.9 | 2962.7 | 2920.6 | 2833.9 | 2747.3 | 2703.8 | 2580.2 | 2507.5 |
| 25°   | 3206.1 | 3238.0 | 3212.5 | 3184.4 | 3157.8 | 3108.0 | 3011.1 | 2918.0 | 2864.6 | 2726.9 | 2644.0 |
| 27.5° | 3329.8 | 3360.4 | 3332.4 | 3300.5 | 3272.5 | 3215.1 | 3109.3 | 3020.1 | 2955.1 | 2804.6 | 2715.4 |
| 30°   | 3333.6 | 3370.6 | 3341.2 | 3306.9 | 3280.1 | 3222.8 | 3114.3 | 3022.5 | 2949.8 | 2799.5 | 2706.4 |
| 32.5° | 3241.9 | 3271.2 | 3241.9 | 3212.5 | 3182.0 | 3127.1 | 3018.8 | 2930.7 | 2854.3 | 2710.2 | 2617.2 |
| 35°   | 3060.8 | 3086.2 | 3057.0 | 3022.5 | 3001.0 | 2952.5 | 2849.2 | 2765.1 | 2688.6 | 2556.0 | 2474.5 |
| 37.5° | 2811.0 | 2833.9 | 2807.1 | 2788.0 | 2756.1 | 2712.8 | 2618.4 | 2543.2 | 2470.6 | 2350.8 | 2278.1 |
| 40°   | 2479.5 | 2527.9 | 2502.4 | 2489.7 | 2460.4 | 2423.4 | 2340.5 | 2274.2 | 2208.0 | 2103.5 | 2043.5 |
| 42.5° | 2148.1 | 2194.0 | 2171.0 | 2162.1 | 2136.7 | 2104.7 | 2035.9 | 1979.8 | 1918.6 | 1831.9 | 1780.9 |
| 45°   | 1784.8 | 1833.2 | 1811.4 | 1807.7 | 1786.0 | 1761.8 | 1687.9 | 1658.5 | 1605.0 | 1523.4 | 1499.2 |
| 47.5° | 1443.1 | 1452.0 | 1431.6 | 1432.9 | 1417.6 | 1401.1 | 1341.1 | 1323.3 | 1296.5 | 1234.0 | 1206.0 |
| 50°   | 1076.0 | 1082.4 | 1065.7 | 1070.8 | 1060.7 | 1050.5 | 1009.7 | 1000.7 | 984.2  | 942.1  | 925.6  |
| 52.5° | 740.6  | 770.0  | 758.5  | 763.7  | 758.5  | 754.7  | 738.2  | 722.8  | 715.2  | 688.4  | 680.7  |
| 55°   | 535.5  | 537.9  | 529.1  | 534.2  | 530.3  | 529.1  | 518.8  | 510.0  | 506.1  | 489.6  | 487.0  |
| 57.5° | 371.0  | 373.6  | 373.6  | 371.0  | 369.7  | 367.2  | 360.8  | 355.6  | 353.2  | 349.3  | 341.6  |
| 60°   | 246.0  | 256.3  | 252.4  | 255.0  | 253.7  | 253.7  | 248.6  | 244.7  | 243.6  | 235.9  | 235.9  |
| 62.5° | 168.3  | 174.6  | 172.2  | 173.3  | 172.2  | 172.2  | 168.3  | 165.8  | 165.8  | 164.5  | 160.6  |
| 65°   | 112.2  | 116.0  | 113.5  | 114.7  | 114.7  | 114.7  | 112.2  | 109.6  | 109.6  | 108.3  | 105.8  |
| 67.5° | 71.4   | 74.0   | 72.7   | 74.0   | 72.7   | 74.0   | 71.4   | 70.1   | 68.8   | 68.8   | 67.6   |
| 70°   | 43.3   | 44.6   | 43.3   | 44.6   | 43.3   | 43.3   | 42.1   | 42.1   | 40.8   | 39.5   | 39.5   |
| 72.5° | 22.9   | 24.2   | 24.2   | 24.2   | 24.2   | 24.2   | 22.9   | 21.7   | 21.7   | 21.7   | 20.4   |
| 75°   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 10.1   | 10.1   | 10.1   |
| 77.5° | 5.1    | 5.1    | 5.1    | 5.1    | 6.4    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    |
| 80°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 82.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 85°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 5.1    | 5.1    | 5.1    | 5.1    | 3.8    |
| 87.5° | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 6.4    | 6.4    | 5.1    | 5.1    |
| 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°    | 47.5°  | 50°    | 52.5°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  | 543.1  |
| 2.5°  | 678.2  | 671.9  | 669.3  | 664.2  | 657.8  | 653.9  | 650.1  | 651.5  | 642.5  | 636.1  | 627.3  |
| 5°    | 849.0  | 835.1  | 827.4  | 815.9  | 801.9  | 790.3  | 780.2  | 775.1  | 758.5  | 747.0  | 722.8  |
| 7.5°  | 1050.5 | 1026.2 | 1011.0 | 990.6  | 966.2  | 946.0  | 925.6  | 911.5  | 886.0  | 864.3  | 827.4  |
| 10°   | 1271.0 | 1234.0 | 1207.2 | 1176.6 | 1139.7 | 1106.6 | 1076.0 | 1050.5 | 1012.1 | 979.0  | 930.6  |
| 12.5° | 1512.0 | 1459.7 | 1421.3 | 1376.7 | 1324.5 | 1278.6 | 1223.8 | 1194.4 | 1142.2 | 1096.3 | 1033.9 |
| 15°   | 1768.1 | 1699.4 | 1645.8 | 1584.5 | 1515.8 | 1454.5 | 1384.4 | 1341.1 | 1272.2 | 1213.6 | 1135.8 |
| 17.5° | 2014.2 | 1927.6 | 1857.3 | 1779.6 | 1694.3 | 1615.2 | 1532.3 | 1471.2 | 1387.0 | 1314.3 | 1221.2 |
| 20°   | 2228.3 | 2125.1 | 2039.6 | 1945.4 | 1844.6 | 1747.7 | 1657.2 | 1575.7 | 1477.5 | 1392.1 | 1286.2 |
| 22.5° | 2403.1 | 2283.2 | 2185.0 | 2075.4 | 1959.4 | 1849.8 | 1746.4 | 1653.5 | 1541.2 | 1447.0 | 1330.8 |
| 25°   | 2529.2 | 2397.9 | 2288.3 | 2167.2 | 2039.6 | 1914.8 | 1805.1 | 1703.1 | 1580.8 | 1480.0 | 1356.3 |
| 27.5° | 2595.5 | 2456.5 | 2340.5 | 2210.5 | 2075.4 | 1945.4 | 1826.8 | 1718.5 | 1589.7 | 1483.9 | 1356.3 |
| 30°   | 2584.1 | 2442.5 | 2322.7 | 2188.8 | 2052.4 | 1922.4 | 1798.7 | 1690.4 | 1557.7 | 1450.7 | 1323.3 |
| 32.5° | 2496.0 | 2357.2 | 2239.9 | 2109.9 | 1975.9 | 1849.8 | 1726.1 | 1621.6 | 1489.0 | 1384.4 | 1260.8 |
| 35°   | 2350.8 | 2219.5 | 2108.6 | 1984.9 | 1858.6 | 1740.0 | 1628.0 | 1522.1 | 1394.7 | 1295.2 | 1179.2 |
| 37.5° | 2162.1 | 2042.2 | 1941.5 | 1826.8 | 1710.8 | 1603.6 | 1492.7 | 1402.2 | 1288.9 | 1195.8 | 1082.4 |
| 40°   | 1936.4 | 1830.7 | 1741.4 | 1639.4 | 1534.9 | 1441.8 | 1348.8 | 1260.8 | 1149.8 | 1067.0 | 970.2  |
| 42.5° | 1687.9 | 1597.3 | 1520.8 | 1431.6 | 1341.1 | 1262.1 | 1181.7 | 1105.3 | 1013.4 | 938.3  | 847.8  |
| 45°   | 1420.2 | 1343.6 | 1281.2 | 1209.8 | 1134.6 | 1060.7 | 1002.0 | 938.3  | 852.9  | 796.8  | 720.2  |
| 47.5° | 1143.5 | 1084.8 | 1037.6 | 982.9  | 922.9  | 877.0  | 821.0  | 770.0  | 707.5  | 655.2  | 592.8  |
| 50°   | 881.0  | 840.1  | 807.0  | 768.7  | 725.3  | 683.3  | 650.1  | 610.6  | 563.4  | 521.4  | 471.6  |
| 52.5° | 651.5  | 624.7  | 604.2  | 578.8  | 549.5  | 527.8  | 497.2  | 467.8  | 432.2  | 400.2  | 362.0  |
| 55°   | 466.5  | 451.3  | 438.6  | 423.2  | 402.8  | 383.7  | 368.4  | 348.0  | 322.5  | 298.3  | 270.2  |
| 57.5° | 335.2  | 318.7  | 317.4  | 300.9  | 293.2  | 279.2  | 265.1  | 249.9  | 232.0  | 215.5  | 195.0  |
| 60°   | 232.0  | 220.5  | 215.5  | 209.1  | 200.1  | 191.3  | 184.9  | 174.6  | 161.9  | 150.4  | 135.1  |
| 62.5° | 156.8  | 149.1  | 146.5  | 144.1  | 136.4  | 132.6  | 125.0  | 118.6  | 109.6  | 100.8  | 90.5   |
| 65°   | 103.2  | 98.2   | 95.6   | 91.8   | 87.9   | 85.4   | 81.5   | 76.5   | 68.8   | 63.7   | 57.3   |
| 67.5° | 65.0   | 61.2   | 58.6   | 57.3   | 53.6   | 52.3   | 48.5   | 45.9   | 40.8   | 38.2   | 34.5   |
| 70°   | 36.9   | 35.8   | 33.2   | 33.2   | 30.6   | 28.1   | 26.8   | 24.2   | 22.9   | 20.4   | 19.1   |
| 72.5° | 19.1   | 19.1   | 17.8   | 16.5   | 15.3   | 15.3   | 14.0   | 12.7   | 11.4   | 10.1   | 10.1   |
| 75°   | 9.0    | 9.0    | 9.0    | 7.7    | 7.7    | 7.7    | 6.4    | 6.4    | 6.4    | 5.1    | 5.1    |
| 77.5° | 5.1    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 2.6    | 2.6    |
| 80°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 82.5° | 2.6    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 85°   | 3.8    | 2.6    | 2.6    | 2.6    | 2.6    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 87.5° | 3.8    | 3.8    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    |
| 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



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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 57.5°  | 60°    | 62.5°  | 65°   | 67.5° | 70°   | 72.5° | 75°   | 77.5° | 80°   |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 543.1  | 543.1  | 543.1  | 543.1  | 543.1 | 543.1 | 543.1 | 543.1 | 543.1 | 543.1 | 543.1 |
| 2.5°  | 620.9  | 618.3  | 611.9  | 610.6  | 596.6 | 594.1 | 586.4 | 575.0 | 566.0 | 563.4 | 566.0 |
| 5°    | 713.9  | 702.4  | 683.3  | 679.5  | 656.5 | 648.8 | 632.3 | 614.5 | 599.2 | 590.2 | 586.4 |
| 7.5°  | 809.6  | 790.3  | 762.4  | 748.3  | 715.2 | 698.7 | 674.3 | 648.8 | 624.7 | 608.2 | 597.9 |
| 10°   | 901.2  | 870.7  | 819.7  | 808.3  | 767.4 | 740.6 | 707.5 | 673.2 | 642.5 | 619.6 | 602.9 |
| 12.5° | 988.0  | 951.0  | 898.8  | 866.9  | 813.3 | 778.9 | 736.9 | 694.7 | 656.5 | 626.0 | 602.9 |
| 15°   | 1077.2 | 1028.8 | 963.8  | 919.2  | 857.9 | 812.0 | 761.1 | 712.6 | 668.0 | 629.7 | 601.6 |
| 17.5° | 1151.2 | 1091.2 | 1014.8 | 961.2  | 889.8 | 835.1 | 776.4 | 720.2 | 671.9 | 628.4 | 596.6 |
| 20°   | 1206.0 | 1135.8 | 1049.2 | 986.7  | 907.6 | 846.5 | 782.8 | 721.5 | 668.0 | 620.9 | 586.4 |
| 22.5° | 1243.0 | 1162.6 | 1068.3 | 999.4  | 916.6 | 850.3 | 781.5 | 717.8 | 662.9 | 614.5 | 577.5 |
| 25°   | 1260.8 | 1174.0 | 1076.0 | 1002.0 | 915.3 | 846.5 | 775.1 | 710.1 | 653.9 | 604.2 | 568.6 |
| 27.5° | 1258.3 | 1166.5 | 1065.7 | 988.0  | 900.1 | 828.7 | 756.0 | 691.0 | 636.1 | 586.4 | 549.5 |
| 30°   | 1221.2 | 1130.7 | 1028.8 | 949.7  | 863.0 | 791.6 | 718.9 | 655.2 | 601.6 | 550.7 | 516.4 |
| 32.5° | 1163.9 | 1070.8 | 971.5  | 883.4  | 809.6 | 739.3 | 670.6 | 605.5 | 554.6 | 504.8 | 471.6 |
| 35°   | 1086.1 | 996.9  | 901.2  | 826.1  | 745.7 | 678.2 | 611.9 | 550.7 | 502.3 | 453.8 | 423.2 |
| 37.5° | 995.6  | 910.2  | 822.3  | 744.6  | 674.3 | 611.9 | 549.5 | 494.6 | 446.1 | 402.8 | 373.6 |
| 40°   | 891.1  | 812.0  | 731.7  | 665.5  | 596.6 | 539.2 | 481.9 | 428.3 | 388.8 | 349.3 | 323.8 |
| 42.5° | 777.6  | 707.5  | 634.8  | 577.5  | 515.1 | 464.1 | 409.2 | 371.0 | 332.7 | 297.0 | 276.6 |
| 45°   | 659.1  | 597.9  | 536.6  | 484.5  | 433.4 | 388.8 | 341.6 | 306.0 | 276.6 | 247.3 | 229.5 |
| 47.5° | 541.8  | 489.6  | 439.8  | 397.8  | 353.2 | 316.1 | 282.9 | 251.1 | 223.1 | 198.8 | 184.9 |
| 50°   | 423.2  | 388.8  | 349.3  | 314.9  | 279.2 | 248.6 | 217.9 | 195.0 | 173.3 | 155.5 | 146.5 |
| 52.5° | 330.1  | 298.3  | 266.4  | 238.3  | 212.9 | 187.4 | 167.0 | 147.8 | 132.6 | 121.1 | 114.7 |
| 55°   | 246.0  | 220.5  | 196.3  | 174.6  | 154.2 | 137.7 | 123.7 | 112.2 | 101.9 | 93.1  | 90.5  |
| 57.5° | 175.9  | 156.8  | 140.2  | 123.7  | 110.9 | 100.8 | 91.8  | 84.1  | 77.8  | 71.4  | 70.1  |
| 60°   | 122.4  | 108.3  | 98.2   | 87.9   | 80.4  | 72.7  | 67.6  | 62.4  | 57.3  | 53.6  | 52.3  |
| 62.5° | 81.5   | 74.0   | 66.3   | 61.2   | 57.3  | 51.0  | 48.5  | 44.6  | 42.1  | 38.2  | 36.9  |
| 65°   | 52.3   | 47.2   | 43.3   | 39.5   | 36.9  | 34.5  | 31.9  | 29.2  | 26.8  | 24.2  | 24.2  |
| 67.5° | 31.9   | 28.1   | 26.8   | 24.2   | 21.7  | 20.4  | 19.1  | 16.5  | 15.3  | 15.3  | 14.0  |
| 70°   | 17.8   | 15.3   | 14.0   | 12.7   | 11.4  | 11.4  | 10.1  | 9.0   | 9.0   | 7.7   | 7.7   |
| 72.5° | 9.0    | 9.0    | 7.7    | 7.7    | 6.4   | 6.4   | 5.1   | 5.1   | 5.1   | 3.8   | 3.8   |
| 75°   | 5.1    | 5.1    | 3.8    | 3.8    | 3.8   | 3.8   | 3.8   | 3.8   | 2.6   | 2.6   | 2.6   |
| 77.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   |
| 80°   | 2.6    | 2.6    | 2.6    | 2.6    | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   |
| 82.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   |
| 85°   | 3.8    | 3.8    | 3.8    | 3.8    | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   |
| 87.5° | 3.8    | 3.8    | 3.8    | 3.8    | 3.8   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   |
| 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: P1191664

CATALOG NUMBER: LDA4A20940D010TE LAR25NF 4LLWW1

**CANDELA DISTRIBUTION (continued):**

|       | 82.5° | 85°   | 87.5° | 90°   | 112.5° | 135°  | 157.5° | 180°  |
|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0°    | 543.1 | 543.1 | 543.1 | 543.1 | 543.1  | 543.1 | 543.1  | 543.1 |
| 2.5°  | 555.9 | 543.1 | 540.5 | 540.5 | 487.0  | 455.1 | 430.9  | 424.6 |
| 5°    | 568.6 | 550.7 | 541.8 | 536.6 | 441.1  | 385.0 | 348.0  | 337.8 |
| 7.5°  | 575.0 | 549.5 | 535.5 | 523.9 | 396.5  | 323.8 | 284.2  | 272.8 |
| 10°   | 572.4 | 541.8 | 522.7 | 507.4 | 355.6  | 276.6 | 235.9  | 225.6 |
| 12.5° | 567.3 | 532.9 | 508.7 | 489.6 | 321.3  | 239.6 | 202.7  | 192.4 |
| 15°   | 562.3 | 522.7 | 494.6 | 471.6 | 293.2  | 214.2 | 181.0  | 172.2 |
| 17.5° | 552.0 | 511.1 | 479.3 | 455.1 | 275.4  | 204.0 | 175.9  | 170.9 |
| 20°   | 540.5 | 498.4 | 465.2 | 441.1 | 270.2  | 214.2 | 197.7  | 197.7 |
| 22.5° | 532.9 | 489.6 | 457.7 | 433.4 | 279.2  | 238.3 | 232.0  | 235.9 |
| 25°   | 522.7 | 481.9 | 450.0 | 427.0 | 288.2  | 257.5 | 253.7  | 258.8 |
| 27.5° | 506.1 | 465.2 | 434.7 | 411.8 | 282.9  | 255.0 | 251.1  | 253.7 |
| 30°   | 472.9 | 433.4 | 406.6 | 382.4 | 262.7  | 235.9 | 229.5  | 230.8 |
| 32.5° | 430.9 | 392.7 | 367.2 | 344.2 | 233.3  | 207.8 | 201.4  | 201.4 |
| 35°   | 385.0 | 349.3 | 325.1 | 304.7 | 205.2  | 182.3 | 175.9  | 174.6 |
| 37.5° | 339.1 | 306.0 | 285.5 | 266.4 | 179.7  | 159.4 | 152.9  | 151.7 |
| 40°   | 293.2 | 263.8 | 244.7 | 229.5 | 158.1  | 141.5 | 135.1  | 133.8 |
| 42.5° | 249.9 | 224.4 | 207.8 | 195.0 | 137.7  | 125.0 | 119.9  | 118.6 |
| 45°   | 206.5 | 186.1 | 173.3 | 163.2 | 119.9  | 107.2 | 105.8  | 105.8 |
| 47.5° | 167.0 | 150.4 | 141.5 | 135.1 | 101.9  | 91.8  | 90.5   | 91.8  |
| 50°   | 133.8 | 122.4 | 116.0 | 110.9 | 86.7   | 77.8  | 74.0   | 74.0  |
| 52.5° | 105.8 | 98.2  | 94.3  | 90.5  | 71.4   | 62.4  | 57.3   | 56.0  |
| 55°   | 84.1  | 77.8  | 75.2  | 72.7  | 56.0   | 45.9  | 40.8   | 39.5  |
| 57.5° | 66.3  | 61.2  | 58.6  | 56.0  | 42.1   | 31.9  | 26.8   | 25.5  |
| 60°   | 49.7  | 45.9  | 43.3  | 42.1  | 29.2   | 19.1  | 15.3   | 14.0  |
| 62.5° | 35.8  | 33.2  | 30.6  | 29.2  | 17.8   | 10.1  | 6.4    | 5.1   |
| 65°   | 21.7  | 21.7  | 19.1  | 17.8  | 9.0    | 3.8   | 2.6    | 1.3   |
| 67.5° | 12.7  | 11.4  | 10.1  | 10.1  | 3.8    | 2.6   | 1.3    | 1.3   |
| 70°   | 6.4   | 6.4   | 5.1   | 5.1   | 2.6    | 1.3   | 1.3    | 1.3   |
| 72.5° | 3.8   | 3.8   | 3.8   | 2.6   | 2.6    | 1.3   | 1.3    | 1.3   |
| 75°   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6    | 1.3   | 1.3    | 1.3   |
| 77.5° | 2.6   | 2.6   | 2.6   | 2.6   | 2.6    | 1.3   | 1.3    | 0.0   |
| 80°   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6    | 1.3   | 1.3    | 0.0   |
| 82.5° | 2.6   | 2.6   | 2.6   | 2.6   | 2.6    | 1.3   | 1.3    | 1.3   |
| 85°   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6    | 1.3   | 1.3    | 0.0   |
| 87.5° | 2.6   | 2.6   | 2.6   | 2.6   | 2.6    | 1.3   | 1.3    | 1.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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

Scaled Data Report



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(END OF REPORT)