

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: P1192820

Luminaire Tested: **LDA6A75940D010TE LARH30NF 6LA1LI 30°**

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: P1192820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26687)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A75940D010TE LARH30NF 6LA1LI 30°  
Description: PORTFOLIO 6" Adjustable Reflector, Angle-cut Trim, Self-flanged, 30°  
Narrow Flood, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

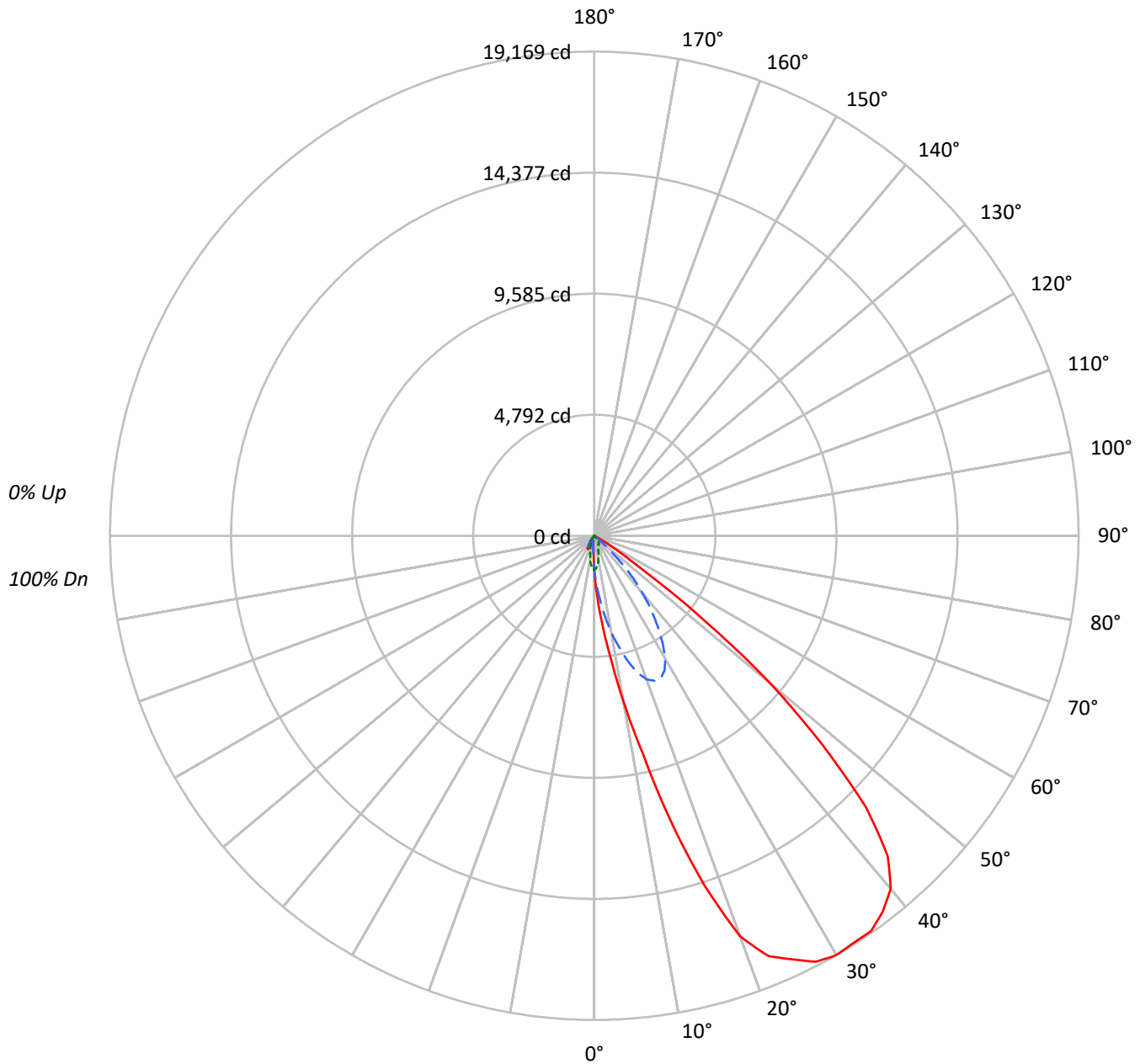
Lumens per Lamp: N/A  
Luminaire Lumens: 7473.1 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Spacing Criteria (0/90/45): 2.58 / 0.46 / 1.37  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.9  
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  | 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 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  | 91  |    |    |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 85  | 83  | 81  |    |    |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  | 73  |    |    |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  |    |    |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 67  | 61  | 71  | 65  | 61  | 70  | 64  | 60  | 68  | 63  | 60  | 58  |    |    |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 54  | 52  |    |    |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  | 59  | 53  | 49  | 57  | 52  | 48  | 46  |    |    |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 47  | 43  | 42  |    |    |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 43  | 39  | 38  |    |    |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |

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

|     | 0°      | 90°   | 180°  |
|-----|---------|-------|-------|
| 0°  | 73898   | 73898 | 73898 |
| 5°  | 189560  | 67224 | 20933 |
| 10° | 369510  | 51663 | 10059 |
| 15° | 663313  | 35091 | 13496 |
| 20° | 984816  | 26637 | 22274 |
| 25° | 1119397 | 21951 | 34931 |
| 30° | 1213440 | 24004 | 32853 |
| 35° | 1278150 | 15546 | 20371 |
| 40° | 1305789 | 6906  | 9919  |
| 45° | 1179386 | 2636  | 3690  |
| 50° | 776350  | 1049  | 1049  |
| 55° | 212599  | 908   | 0     |
| 60° | 42464   | 1042  | 0     |
| 65° | 3009    | 1414  | 0     |
| 70° | 417     | 1747  | 0     |
| 75° | 0       | 2605  | 0     |
| 80° | 0       | 3883  | 442   |
| 85° | 0       | 7737  | 881   |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 165.1  | 2.2       |
| 10°-20°   | 877.2  | 11.7      |
| 20°-30°   | 1988.3 | 26.6      |
| 30°-40°   | 2386.6 | 31.9      |
| 40°-50°   | 1682.0 | 22.5      |
| 50°-60°   | 347.0  | 4.6       |
| 60°-70°   | 12.3   | 0.2       |
| 70°-80°   | 7.3    | 0.1       |
| 80°-90°   | 7.2    | 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°    | 3030.7 | 40.6      |
| 0°-40°    | 5417.3 | 72.5      |
| 0°-60°    | 7446.4 | 99.6      |
| 0°-90°    | 7473.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7473.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90°  | 135° | 180° | Flux  |
|-----|-------|------|------|------|------|-------|
| 0°  | 1348  | 1348 | 1348 | 1348 | 1348 |       |
| 5°  | 3445  | 2510 | 1222 | 508  | 380  | 424   |
| 15° | 11688 | 5142 | 618  | 220  | 238  | 3468  |
| 25° | 18506 | 6220 | 363  | 508  | 578  | 8541  |
| 35° | 19099 | 4355 | 232  | 304  | 304  | 11873 |
| 45° | 15212 | 1493 | 34   | 46   | 48   | 11188 |
| 55° | 2224  | 30   | 10   | 7    | 0    | 2931  |
| 65° | 23    | 7    | 11   | 7    | 0    | 69    |
| 75° | 0     | 7    | 12   | 8    | 0    | 0     |
| 85° | 0     | 8    | 12   | 8    | 1    | 0     |
| 90° | 0     | 0    | 0    | 0    | 0    |       |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 22.5°   | 25°     | 30°     | 35°     | 40°    | 45°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 1348.0  | 1348.0  | 1348.0  | 1348.0  | 1348.0  | 1348.0  | 1348.0  | 1348.0  | 1348.0  | 1348.0 | 1348.0 |
| 2.5°  | 2297.8  | 2228.5  | 2255.7  | 2175.5  | 2157.9  | 2142.8  | 2157.9  | 2070.9  | 2021.9  | 1959.5 | 1909.3 |
| 5°    | 3444.7  | 3361.8  | 3380.8  | 3240.9  | 3177.1  | 3133.5  | 3125.3  | 2946.0  | 2811.5  | 2663.3 | 2509.8 |
| 7.5°  | 4795.4  | 4716.6  | 4705.7  | 4488.3  | 4356.6  | 4281.8  | 4250.6  | 3993.7  | 3761.4  | 3497.6 | 3209.7 |
| 10°   | 6638.0  | 6458.7  | 6402.9  | 6087.7  | 5836.3  | 5677.3  | 5481.7  | 5071.3  | 4663.6  | 4265.5 | 3898.6 |
| 12.5° | 8782.3  | 8684.5  | 8545.9  | 7990.0  | 7549.8  | 7324.3  | 7032.1  | 6390.8  | 5773.8  | 5116.2 | 4501.9 |
| 15°   | 11687.5 | 11339.7 | 11103.2 | 10300.1 | 9590.8  | 9243.0  | 8816.3  | 7835.2  | 6903.0  | 6070.0 | 5142.0 |
| 17.5° | 14526.3 | 14344.1 | 13974.6 | 12932.3 | 11839.8 | 11290.8 | 10654.9 | 9321.8  | 8005.1  | 6820.2 | 5686.8 |
| 20°   | 16881.1 | 16710.0 | 16288.7 | 15306.2 | 14094.1 | 13284.3 | 12483.8 | 10654.9 | 8934.6  | 7418.0 | 6051.1 |
| 22.5° | 18009.0 | 17900.2 | 17556.5 | 16715.4 | 15682.6 | 14912.1 | 14052.0 | 11789.5 | 9622.1  | 7809.4 | 6216.7 |
| 25°   | 18506.3 | 18456.1 | 18234.5 | 17571.4 | 16598.6 | 15944.9 | 15132.3 | 12592.6 | 10050.2 | 7991.4 | 6219.5 |
| 27.5° | 19010.4 | 19020.0 | 18530.8 | 18006.2 | 17083.6 | 16455.7 | 15673.1 | 12948.6 | 10127.6 | 7889.5 | 6015.6 |
| 30°   | 19169.4 | 19068.8 | 18852.8 | 18100.1 | 17223.6 | 16556.3 | 15716.6 | 12784.2 | 9809.6  | 7471.0 | 5609.4 |
| 32.5° | 19104.3 | 19064.8 | 18827.0 | 18030.7 | 16985.8 | 16250.6 | 15296.7 | 12132.0 | 9181.8  | 6873.1 | 5033.2 |
| 35°   | 19098.8 | 19025.5 | 18480.5 | 17797.0 | 16510.1 | 15602.4 | 14345.5 | 11077.4 | 8293.1  | 6084.9 | 4355.2 |
| 37.5° | 18753.7 | 18571.5 | 18162.5 | 17241.3 | 15545.4 | 14394.5 | 12985.3 | 9789.3  | 7206.0  | 5200.4 | 3682.6 |
| 40°   | 18246.8 | 18002.2 | 17464.1 | 16069.9 | 13874.0 | 12547.7 | 11172.5 | 8325.7  | 6055.1  | 4328.0 | 2967.7 |
| 42.5° | 17188.2 | 16818.6 | 16057.6 | 14140.2 | 11646.8 | 10451.0 | 9306.9  | 6843.2  | 4938.1  | 3526.2 | 2265.1 |
| 45°   | 15212.5 | 14707.0 | 13678.2 | 11573.5 | 9408.7  | 8433.1  | 7513.1  | 5506.1  | 3953.0  | 2615.7 | 1493.4 |
| 47.5° | 12227.1 | 11758.2 | 10821.9 | 9213.0  | 7378.7  | 6553.8  | 5820.0  | 4095.6  | 2679.6  | 1515.2 | 713.5  |
| 50°   | 9103.0  | 8700.8  | 7969.7  | 6402.9  | 4953.0  | 4304.8  | 3677.1  | 2326.4  | 1255.7  | 720.1  | 296.2  |
| 52.5° | 5431.3  | 5231.6  | 4583.4  | 3550.6  | 2445.9  | 2107.6  | 1691.7  | 985.1   | 633.3   | 260.9  | 80.2   |
| 55°   | 2224.4  | 2053.2  | 1810.0  | 1452.5  | 1064.0  | 902.3   | 771.9   | 486.4   | 197.1   | 54.4   | 29.8   |
| 57.5° | 1005.6  | 967.5   | 857.5   | 674.0   | 489.2   | 410.4   | 277.2   | 92.5    | 43.5    | 27.2   | 17.7   |
| 60°   | 387.3   | 349.2   | 299.0   | 161.8   | 69.3    | 58.4    | 47.6    | 31.2    | 21.8    | 14.9   | 10.9   |
| 62.5° | 55.8    | 53.0    | 47.6    | 38.1    | 29.8    | 27.2    | 23.2    | 16.3    | 12.3    | 9.5    | 8.1    |
| 65°   | 23.2    | 23.2    | 20.4    | 16.3    | 13.5    | 12.3    | 10.9    | 8.1     | 6.8     | 6.8    | 6.8    |
| 67.5° | 9.5     | 9.5     | 8.1     | 6.8     | 5.4     | 5.4     | 5.4     | 4.0     | 5.4     | 5.4    | 6.8    |
| 70°   | 2.6     | 2.6     | 2.6     | 2.6     | 2.6     | 2.6     | 4.0     | 4.0     | 5.4     | 5.4    | 6.8    |
| 72.5° | 0.0     | 0.0     | 1.4     | 1.4     | 2.6     | 2.6     | 2.6     | 4.0     | 5.4     | 6.8    | 6.8    |
| 75°   | 0.0     | 0.0     | 1.4     | 1.4     | 2.6     | 2.6     | 2.6     | 4.0     | 5.4     | 6.8    | 6.8    |
| 77.5° | 0.0     | 0.0     | 1.4     | 1.4     | 2.6     | 2.6     | 4.0     | 4.0     | 5.4     | 6.8    | 6.8    |
| 80°   | 0.0     | 0.0     | 1.4     | 1.4     | 2.6     | 2.6     | 4.0     | 4.0     | 5.4     | 6.8    | 8.1    |
| 82.5° | 0.0     | 0.0     | 1.4     | 1.4     | 2.6     | 2.6     | 4.0     | 4.0     | 5.4     | 6.8    | 8.1    |
| 85°   | 0.0     | 0.0     | 1.4     | 1.4     | 2.6     | 2.6     | 4.0     | 4.0     | 5.4     | 6.8    | 8.1    |
| 87.5° | 0.0     | 0.0     | 1.4     | 1.4     | 2.6     | 2.6     | 4.0     | 4.0     | 5.4     | 6.8    | 8.1    |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 |
| 2.5°  | 1865.8 | 1778.7 | 1754.3 | 1678.2 | 1614.3 | 1583.1 | 1543.6 | 1455.3 | 1388.7 | 1300.4 | 1247.4 |
| 5°    | 2402.5 | 2238.1 | 2107.6 | 1948.6 | 1844.0 | 1776.1 | 1670.1 | 1508.3 | 1378.0 | 1221.6 | 1110.2 |
| 7.5°  | 2982.6 | 2682.4 | 2447.3 | 2185.1 | 2034.2 | 1916.0 | 1735.2 | 1502.9 | 1311.3 | 1103.4 | 930.9  |
| 10°   | 3542.6 | 3094.1 | 2724.5 | 2348.1 | 2149.7 | 1985.3 | 1736.6 | 1444.5 | 1190.4 | 928.1  | 746.1  |
| 12.5° | 4035.8 | 3456.9 | 2936.5 | 2452.7 | 2206.7 | 2001.6 | 1690.5 | 1339.9 | 1032.8 | 763.6  | 603.3  |
| 15°   | 4447.6 | 3738.2 | 3086.0 | 2492.2 | 2210.9 | 1966.3 | 1594.0 | 1190.4 | 857.5  | 618.3  | 505.5  |
| 17.5° | 4760.1 | 3886.3 | 3132.1 | 2444.6 | 2132.1 | 1865.8 | 1445.9 | 1001.4 | 695.7  | 524.5  | 425.3  |
| 20°   | 4921.8 | 3914.9 | 3065.6 | 2315.5 | 1986.7 | 1713.5 | 1251.5 | 812.6  | 589.8  | 456.6  | 356.0  |
| 22.5° | 4942.1 | 3834.7 | 2906.7 | 2130.7 | 1803.1 | 1528.7 | 1036.8 | 678.0  | 525.9  | 403.6  | 313.9  |
| 25°   | 4821.2 | 3660.8 | 2679.6 | 1921.4 | 1602.0 | 1316.7 | 843.8  | 607.5  | 478.3  | 362.9  | 361.5  |
| 27.5° | 4563.1 | 3361.8 | 2408.0 | 1678.2 | 1358.8 | 1070.7 | 716.1  | 549.0  | 426.7  | 384.6  | 409.0  |
| 30°   | 4198.8 | 2978.6 | 2073.7 | 1371.1 | 1061.2 | 823.5  | 603.3  | 452.5  | 375.0  | 379.2  | 399.5  |
| 32.5° | 3705.6 | 2503.1 | 1680.8 | 1004.2 | 759.6  | 619.6  | 452.5  | 308.5  | 311.1  | 312.5  | 330.2  |
| 35°   | 3086.0 | 2007.0 | 1255.7 | 675.4  | 534.0  | 436.2  | 255.5  | 226.9  | 231.1  | 232.3  | 244.6  |
| 37.5° | 2473.1 | 1542.4 | 834.4  | 449.7  | 335.7  | 229.7  | 159.0  | 152.1  | 154.9  | 153.5  | 167.2  |
| 40°   | 1894.2 | 1074.9 | 500.1  | 222.8  | 129.1  | 107.4  | 97.9   | 93.7   | 95.1   | 96.5   | 104.6  |
| 42.5° | 1341.1 | 582.9  | 247.2  | 84.2   | 67.9   | 62.5   | 58.4   | 55.8   | 57.0   | 57.0   | 62.5   |
| 45°   | 680.8  | 275.8  | 84.2   | 46.2   | 42.1   | 38.1   | 35.3   | 34.0   | 34.0   | 34.0   | 36.7   |
| 47.5° | 294.8  | 91.1   | 39.5   | 28.6   | 25.8   | 24.4   | 21.8   | 20.4   | 20.4   | 20.4   | 21.8   |
| 50°   | 92.5   | 36.7   | 24.4   | 19.0   | 16.3   | 14.9   | 13.5   | 13.5   | 13.5   | 12.3   | 13.5   |
| 52.5° | 34.0   | 23.2   | 16.3   | 12.3   | 10.9   | 10.9   | 10.9   | 9.5    | 10.9   | 9.5    | 10.9   |
| 55°   | 20.4   | 14.9   | 10.9   | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    |
| 57.5° | 13.5   | 10.9   | 9.5    | 9.5    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    |
| 60°   | 9.5    | 9.5    | 8.1    | 8.1    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    |
| 62.5° | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   |
| 65°   | 6.8    | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   |
| 67.5° | 6.8    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 10.9   |
| 70°   | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 10.9   | 12.3   |
| 72.5° | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 12.3   | 12.3   | 12.3   |
| 75°   | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 12.3   | 12.3   | 12.3   |
| 77.5° | 8.1    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 10.9   | 12.3   | 12.3   | 12.3   | 12.3   |
| 80°   | 8.1    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 12.3   | 12.3   | 12.3   | 12.3   | 13.5   |
| 82.5° | 8.1    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 12.3   | 12.3   | 12.3   | 12.3   | 13.5   |
| 85°   | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 10.9   | 12.3   | 12.3   | 12.3   | 12.3   | 13.5   |
| 87.5° | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 10.9   | 12.3   | 12.3   | 13.5   | 12.3   | 13.5   |
| 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):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 |
| 2.5°  | 1176.7 | 1097.9 | 1043.5 | 1023.2 | 983.9  | 921.4  | 884.6  | 850.7  | 786.8  | 773.1  | 737.9  |
| 5°    | 982.5  | 856.1  | 766.4  | 732.4  | 687.7  | 634.7  | 582.9  | 549.0  | 508.2  | 491.8  | 467.5  |
| 7.5°  | 774.5  | 648.2  | 570.8  | 543.6  | 512.4  | 468.8  | 422.5  | 388.7  | 346.5  | 324.8  | 304.4  |
| 10°   | 608.7  | 515.0  | 449.7  | 422.5  | 390.1  | 343.8  | 296.2  | 251.4  | 214.8  | 191.6  | 187.6  |
| 12.5° | 494.6  | 417.1  | 347.8  | 319.4  | 281.3  | 235.1  | 201.1  | 199.7  | 197.1  | 195.7  | 198.4  |
| 15°   | 405.0  | 330.2  | 256.9  | 225.6  | 214.8  | 213.4  | 217.4  | 221.4  | 220.2  | 224.2  | 226.9  |
| 17.5° | 332.9  | 252.7  | 236.4  | 237.8  | 239.2  | 243.2  | 250.0  | 260.9  | 262.3  | 269.0  | 274.4  |
| 20°   | 271.8  | 267.8  | 274.4  | 279.9  | 284.1  | 292.2  | 307.1  | 320.8  | 324.8  | 334.3  | 345.1  |
| 22.5° | 308.5  | 320.8  | 335.7  | 342.5  | 347.8  | 362.9  | 379.2  | 400.9  | 409.0  | 421.3  | 436.2  |
| 25°   | 372.3  | 392.7  | 415.9  | 423.9  | 432.2  | 456.6  | 475.5  | 501.5  | 508.2  | 523.1  | 538.2  |
| 27.5° | 425.3  | 447.1  | 471.5  | 482.4  | 489.2  | 513.6  | 529.9  | 546.2  | 546.2  | 554.5  | 565.4  |
| 30°   | 417.1  | 434.8  | 455.2  | 463.4  | 466.1  | 483.8  | 500.1  | 505.5  | 502.7  | 506.9  | 515.0  |
| 32.5° | 346.5  | 360.1  | 376.4  | 383.2  | 385.9  | 398.1  | 411.7  | 411.7  | 410.4  | 410.4  | 415.9  |
| 35°   | 256.9  | 266.4  | 274.4  | 281.3  | 285.3  | 293.6  | 305.7  | 304.4  | 304.4  | 301.6  | 305.7  |
| 37.5° | 172.7  | 177.9  | 187.6  | 190.2  | 191.6  | 197.1  | 206.5  | 206.5  | 203.9  | 205.1  | 207.9  |
| 40°   | 104.6  | 111.4  | 116.9  | 118.3  | 120.9  | 124.9  | 131.8  | 131.8  | 131.8  | 131.8  | 133.2  |
| 42.5° | 62.5   | 66.5   | 70.7   | 70.7   | 72.0   | 77.4   | 80.2   | 80.2   | 80.2   | 80.2   | 81.6   |
| 45°   | 36.7   | 38.1   | 40.7   | 42.1   | 42.1   | 44.9   | 46.2   | 46.2   | 46.2   | 46.2   | 47.6   |
| 47.5° | 21.8   | 23.2   | 23.2   | 24.4   | 24.4   | 25.8   | 27.2   | 27.2   | 25.8   | 25.8   | 25.8   |
| 50°   | 13.5   | 13.5   | 13.5   | 13.5   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 13.5   |
| 52.5° | 10.9   | 10.9   | 10.9   | 10.9   | 9.5    | 9.5    | 9.5    | 9.5    | 8.1    | 8.1    | 6.8    |
| 55°   | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 8.1    | 8.1    | 8.1    | 6.8    | 5.4    | 4.0    |
| 57.5° | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 8.1    | 8.1    | 6.8    | 5.4    | 5.4    | 4.0    |
| 60°   | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 8.1    | 8.1    | 6.8    | 5.4    | 5.4    | 4.0    |
| 62.5° | 10.9   | 10.9   | 9.5    | 9.5    | 9.5    | 8.1    | 8.1    | 6.8    | 6.8    | 5.4    | 4.0    |
| 65°   | 10.9   | 10.9   | 9.5    | 9.5    | 9.5    | 9.5    | 8.1    | 8.1    | 6.8    | 5.4    | 4.0    |
| 67.5° | 10.9   | 10.9   | 10.9   | 10.9   | 9.5    | 9.5    | 9.5    | 8.1    | 6.8    | 5.4    | 4.0    |
| 70°   | 12.3   | 12.3   | 10.9   | 10.9   | 10.9   | 9.5    | 9.5    | 8.1    | 6.8    | 6.8    | 5.4    |
| 72.5° | 12.3   | 12.3   | 10.9   | 10.9   | 10.9   | 10.9   | 9.5    | 8.1    | 8.1    | 6.8    | 5.4    |
| 75°   | 12.3   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 9.5    | 9.5    | 8.1    | 6.8    | 5.4    |
| 77.5° | 12.3   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 10.9   | 9.5    | 8.1    | 6.8    | 5.4    |
| 80°   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 9.5    | 8.1    | 6.8    | 5.4    |
| 82.5° | 13.5   | 13.5   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 9.5    | 8.1    | 6.8    | 6.8    |
| 85°   | 13.5   | 13.5   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 9.5    | 8.1    | 8.1    | 6.8    |
| 87.5° | 13.5   | 13.5   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 9.5    | 8.1    | 8.1    | 6.8    |
| 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: P1192820

CATALOG NUMBER: LDA6A75940D010TE LARH30NF 6LA1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 | 1348.0 |
| 2.5°  | 716.1  | 675.4  | 661.7  | 671.3  | 660.5  | 652.2  | 641.3  | 635.9  |
| 5°    | 448.5  | 418.5  | 409.0  | 411.7  | 402.2  | 394.1  | 383.2  | 380.4  |
| 7.5°  | 275.8  | 247.2  | 236.4  | 236.4  | 225.6  | 216.0  | 209.3  | 205.1  |
| 10°   | 184.8  | 179.3  | 180.7  | 182.1  | 180.7  | 182.1  | 177.9  | 180.7  |
| 12.5° | 198.4  | 195.7  | 198.4  | 199.7  | 199.7  | 202.5  | 197.1  | 201.1  |
| 15°   | 231.1  | 228.3  | 232.3  | 235.1  | 235.1  | 239.2  | 233.7  | 237.8  |
| 17.5° | 282.7  | 281.3  | 288.1  | 290.8  | 292.2  | 299.0  | 292.2  | 297.6  |
| 20°   | 357.4  | 356.0  | 365.5  | 369.5  | 368.3  | 381.8  | 372.3  | 381.8  |
| 22.5° | 453.9  | 451.1  | 464.7  | 468.8  | 470.1  | 487.8  | 479.7  | 486.4  |
| 25°   | 550.3  | 553.1  | 559.9  | 566.6  | 568.0  | 582.9  | 570.8  | 577.5  |
| 27.5° | 570.8  | 566.6  | 570.8  | 578.9  | 580.3  | 587.0  | 576.2  | 581.5  |
| 30°   | 516.4  | 509.6  | 511.0  | 520.4  | 523.1  | 525.9  | 516.4  | 519.0  |
| 32.5° | 419.9  | 409.0  | 409.0  | 418.5  | 421.3  | 425.3  | 409.0  | 415.9  |
| 35°   | 309.9  | 300.2  | 300.2  | 307.1  | 308.5  | 311.1  | 299.0  | 304.4  |
| 37.5° | 212.0  | 203.9  | 206.5  | 209.3  | 210.6  | 213.4  | 212.0  | 210.6  |
| 40°   | 135.8  | 130.4  | 134.6  | 134.6  | 135.8  | 137.2  | 137.2  | 138.6  |
| 42.5° | 82.8   | 78.8   | 81.6   | 81.6   | 82.8   | 82.8   | 82.8   | 84.2   |
| 45°   | 47.6   | 46.2   | 46.2   | 47.6   | 47.6   | 47.6   | 46.2   | 47.6   |
| 47.5° | 25.8   | 24.4   | 25.8   | 25.8   | 25.8   | 25.8   | 25.8   | 25.8   |
| 50°   | 13.5   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   |
| 52.5° | 6.8    | 5.4    | 5.4    | 5.4    | 4.0    | 5.4    | 4.0    | 4.0    |
| 55°   | 4.0    | 2.6    | 2.6    | 2.6    | 1.4    | 1.4    | 0.0    | 0.0    |
| 57.5° | 2.6    | 1.4    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 2.6    | 1.4    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 2.6    | 1.4    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 2.6    | 1.4    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 4.0    | 2.6    | 1.4    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    |
| 70°   | 4.0    | 2.6    | 2.6    | 1.4    | 1.4    | 0.0    | 0.0    | 0.0    |
| 72.5° | 4.0    | 2.6    | 2.6    | 2.6    | 1.4    | 1.4    | 0.0    | 0.0    |
| 75°   | 4.0    | 2.6    | 2.6    | 2.6    | 1.4    | 1.4    | 0.0    | 0.0    |
| 77.5° | 4.0    | 4.0    | 2.6    | 2.6    | 1.4    | 1.4    | 1.4    | 0.0    |
| 80°   | 5.4    | 4.0    | 2.6    | 2.6    | 2.6    | 1.4    | 1.4    | 1.4    |
| 82.5° | 5.4    | 4.0    | 2.6    | 2.6    | 2.6    | 1.4    | 1.4    | 1.4    |
| 85°   | 5.4    | 4.0    | 4.0    | 2.6    | 2.6    | 1.4    | 1.4    | 1.4    |
| 87.5° | 5.4    | 4.0    | 4.0    | 2.6    | 2.6    | 1.4    | 1.4    | 1.4    |
| 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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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

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(END OF REPORT)