

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: P1192817

Luminaire Tested: **LDA6A75940D010TE LARH20SP 6LAL1LI 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: P1192817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26689)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A75940D010TE LARH20SP 6LAL1LI 30°  
Description: PORTFOLIO 6" Lensed Adjustable, Self-flanged, 20° Spot, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

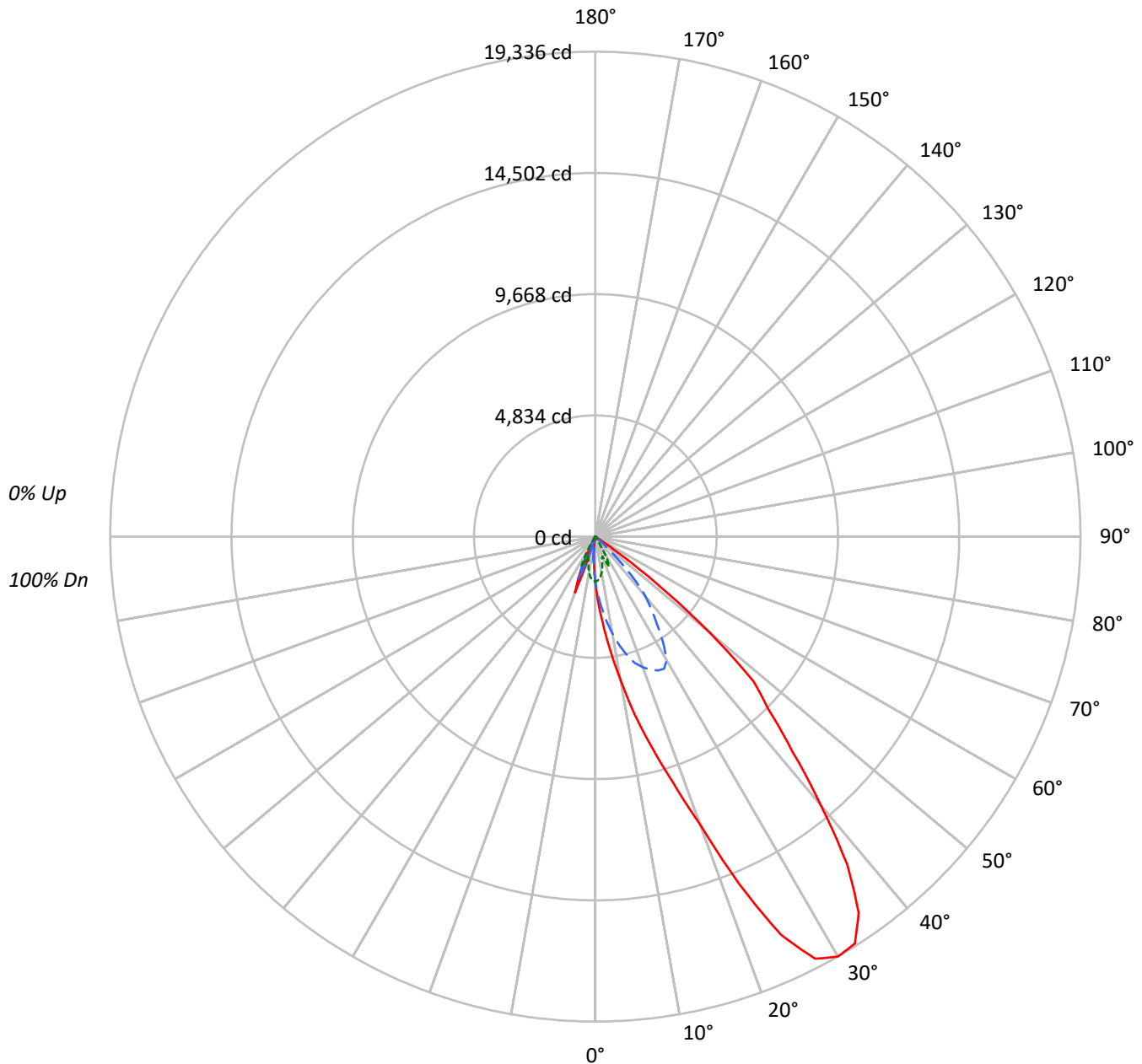
Lumens per Lamp: N/A  
Luminaire Lumens: 6300.5 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 2.34 / 0.96 / 1.3  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

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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 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 51  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 38  | 61  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |

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

|     | 0°      | 90°   | 180°   |
|-----|---------|-------|--------|
| 0°  | 98320   | 98320 | 98320  |
| 5°  | 192235  | 93462 | 34096  |
| 10° | 323569  | 80253 | 7559   |
| 15° | 492750  | 60767 | 12418  |
| 20° | 712049  | 49226 | 138472 |
| 25° | 1059708 | 79638 | 40024  |
| 30° | 1223986 | 27270 | 7906   |
| 35° | 1224371 | 6097  | 4276   |
| 40° | 1000739 | 3406  | 2626   |
| 45° | 757807  | 2217  | 1690   |
| 50° | 503259  | 1510  | 1151   |
| 55° | 80905   | 1290  | 908    |
| 60° | 5065    | 1349  | 746    |
| 65° | 1596    | 1751  | 882    |
| 70° | 866     | 1971  | 1090   |
| 75° | 551     | 2309  | 1440   |
| 80° | 442     | 3441  | 2147   |
| 85° | 881     | 6856  | 2516   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 187.2  | 3.0       |
| 10°-20°   | 800.5  | 12.7      |
| 20°-30°   | 1884.5 | 29.9      |
| 30°-40°   | 1985.5 | 31.5      |
| 40°-50°   | 1238.0 | 19.6      |
| 50°-60°   | 177.9  | 2.8       |
| 60°-70°   | 11.4   | 0.2       |
| 70°-80°   | 8.9    | 0.1       |
| 80°-90°   | 6.7    | 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°    | 2872.2 | 45.6      |
| 0°-40°    | 4857.7 | 77.1      |
| 0°-60°    | 6273.6 | 99.6      |
| 0°-90°    | 6300.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6300.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90°  | 135° | 180° | Flux  |
|-----|-------|------|------|------|------|-------|
| 0°  | 1794  | 1794 | 1794 | 1794 | 1794 |       |
| 5°  | 3493  | 2828 | 1698 | 882  | 620  | 405   |
| 15° | 8682  | 4914 | 1071 | 186  | 219  | 2585  |
| 25° | 17520 | 5892 | 1317 | 952  | 662  | 7883  |
| 35° | 18295 | 4315 | 91   | 84   | 64   | 11036 |
| 45° | 9775  | 1194 | 29   | 31   | 22   | 7650  |
| 55° | 846   | 22   | 14   | 15   | 10   | 1521  |
| 65° | 12    | 10   | 14   | 11   | 7    | 18    |
| 75° | 3     | 7    | 11   | 11   | 7    | 3     |
| 85° | 1     | 7    | 11   | 8    | 4    | 1     |
| 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°    | 1793.5  | 1793.5  | 1793.5  | 1793.5  | 1793.5  | 1793.5  | 1793.5  | 1793.5 | 1793.5 | 1793.5 | 1793.5 |
| 2.5°  | 2618.2  | 2600.7  | 2606.1  | 2565.2  | 2511.0  | 2535.4  | 2474.2  | 2475.6 | 2437.5 | 2341.1 | 2299.0 |
| 5°    | 3493.3  | 3490.5  | 3486.5  | 3411.7  | 3315.4  | 3326.2  | 3236.4  | 3202.5 | 3104.6 | 2934.8 | 2827.6 |
| 7.5°  | 4580.3  | 4581.6  | 4561.2  | 4379.2  | 4271.9  | 4265.0  | 4123.8  | 4021.8 | 3839.7 | 3572.1 | 3376.4 |
| 10°   | 5812.7  | 5850.8  | 5813.9  | 5534.0  | 5334.4  | 5337.1  | 5083.1  | 4887.4 | 4595.3 | 4205.2 | 3926.7 |
| 12.5° | 7259.6  | 7265.1  | 7208.0  | 6839.9  | 6535.5  | 6512.3  | 6171.3  | 5797.8 | 5353.3 | 4843.9 | 4438.9 |
| 15°   | 8682.2  | 8720.3  | 8646.9  | 8193.1  | 7769.2  | 7705.3  | 7270.5  | 6777.3 | 6225.7 | 5471.6 | 4914.5 |
| 17.5° | 10259.7 | 10200.0 | 10005.6 | 9356.2  | 8846.6  | 8752.9  | 8285.4  | 7640.1 | 6936.2 | 6024.6 | 5293.6 |
| 20°   | 12205.5 | 12225.8 | 11814.2 | 10844.0 | 9982.6  | 9617.1  | 9074.9  | 8368.4 | 7490.7 | 6430.9 | 5546.3 |
| 22.5° | 14985.5 | 14875.3 | 13992.1 | 12422.9 | 11127.9 | 10640.3 | 9867.1  | 8892.9 | 7905.0 | 6739.3 | 5735.1 |
| 25°   | 17519.5 | 17230.0 | 16416.1 | 14257.1 | 12229.9 | 11626.6 | 10826.3 | 9339.9 | 8248.8 | 6967.5 | 5891.5 |
| 27.5° | 18974.7 | 18845.5 | 17922.9 | 15744.9 | 13119.9 | 12270.6 | 11144.2 | 9668.7 | 8452.7 | 7080.3 | 5936.2 |
| 30°   | 19336.0 | 19359.1 | 18538.4 | 16238.2 | 13330.4 | 12360.4 | 11196.0 | 9659.2 | 8315.4 | 6879.2 | 5678.1 |
| 32.5° | 19243.7 | 19118.7 | 18092.8 | 15693.3 | 12769.3 | 11886.1 | 10690.5 | 9227.2 | 7769.2 | 6280.0 | 5035.5 |
| 35°   | 18295.2 | 18111.9 | 16849.5 | 14276.2 | 11816.8 | 10958.1 | 9873.8  | 8519.2 | 7006.9 | 5516.5 | 4315.4 |
| 37.5° | 16490.9 | 16278.9 | 14822.3 | 12575.0 | 10674.1 | 9947.2  | 9009.8  | 7731.1 | 6236.6 | 4804.4 | 3682.1 |
| 40°   | 13984.1 | 13720.5 | 12503.1 | 10944.5 | 9445.8  | 8937.7  | 8145.6  | 6831.7 | 5437.7 | 4130.6 | 3098.0 |
| 42.5° | 11640.3 | 11513.8 | 10782.9 | 9445.8  | 8436.3  | 7945.9  | 7147.0  | 5924.1 | 4641.4 | 3441.7 | 2293.6 |
| 45°   | 9774.7  | 9690.4  | 9205.4  | 8356.2  | 7331.7  | 6872.4  | 6119.8  | 4926.7 | 3531.4 | 2318.0 | 1194.3 |
| 47.5° | 8555.8  | 8341.2  | 7867.1  | 6975.7  | 5837.1  | 5265.0  | 4547.7  | 3246.1 | 1992.0 | 1027.2 | 366.9  |
| 50°   | 5900.9  | 5921.3  | 5385.9  | 4403.6  | 3434.9  | 2951.1  | 2437.5  | 1493.3 | 658.9  | 224.2  | 63.9   |
| 52.5° | 3107.4  | 2877.7  | 2501.4  | 1868.3  | 1300.3  | 991.9   | 724.2   | 299.0  | 119.5  | 44.9   | 34.0   |
| 55°   | 846.5   | 743.3   | 593.8   | 419.9   | 226.9   | 159.0   | 104.6   | 55.6   | 39.5   | 31.2   | 21.8   |
| 57.5° | 82.8    | 78.8    | 72.0    | 58.4    | 50.4    | 46.2    | 42.1    | 34.0   | 27.2   | 19.0   | 13.5   |
| 60°   | 46.2    | 44.9    | 42.1    | 36.7    | 32.6    | 29.8    | 27.2    | 23.2   | 16.3   | 12.3   | 10.9   |
| 62.5° | 25.8    | 24.4    | 23.2    | 20.4    | 17.7    | 16.3    | 16.3    | 13.5   | 10.9   | 9.5    | 9.5    |
| 65°   | 12.3    | 12.3    | 12.3    | 12.3    | 12.3    | 10.9    | 9.5     | 9.5    | 9.5    | 9.5    | 9.5    |
| 67.5° | 9.5     | 9.5     | 9.5     | 8.1     | 8.1     | 8.1     | 8.1     | 8.1    | 8.1    | 6.8    | 8.1    |
| 70°   | 5.4     | 5.4     | 6.8     | 5.4     | 5.4     | 5.4     | 5.4     | 5.4    | 5.4    | 5.4    | 6.8    |
| 72.5° | 2.6     | 4.0     | 4.0     | 4.0     | 4.0     | 4.0     | 4.0     | 4.0    | 5.4    | 5.4    | 6.8    |
| 75°   | 2.6     | 2.6     | 2.6     | 2.6     | 4.0     | 4.0     | 4.0     | 4.0    | 5.4    | 5.4    | 6.8    |
| 77.5° | 2.6     | 2.6     | 2.6     | 2.6     | 2.6     | 2.6     | 4.0     | 4.0    | 5.4    | 5.4    | 6.8    |
| 80°   | 1.4     | 1.4     | 1.4     | 2.6     | 2.6     | 2.6     | 2.6     | 4.0    | 5.4    | 5.4    | 6.8    |
| 82.5° | 1.4     | 1.4     | 1.4     | 1.4     | 2.6     | 2.6     | 2.6     | 4.0    | 5.4    | 5.4    | 6.8    |
| 85°   | 1.4     | 1.4     | 1.4     | 1.4     | 2.6     | 2.6     | 2.6     | 4.0    | 4.0    | 5.4    | 6.8    |
| 87.5° | 0.0     | 0.0     | 1.4     | 1.4     | 2.6     | 2.6     | 2.6     | 4.0    | 4.0    | 5.4    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 |
| 2.5°  | 2255.5 | 2188.8 | 2122.3 | 2055.8 | 2053.0 | 2013.7 | 1955.3 | 1877.7 | 1813.9 | 1759.6 | 1706.6 |
| 5°    | 2720.2 | 2582.9 | 2445.7 | 2308.5 | 2267.8 | 2197.1 | 2070.7 | 1928.1 | 1805.8 | 1698.4 | 1595.2 |
| 7.5°  | 3186.2 | 2955.3 | 2737.9 | 2523.1 | 2437.5 | 2330.3 | 2133.2 | 1926.7 | 1750.0 | 1592.4 | 1438.9 |
| 10°   | 3601.9 | 3266.4 | 2960.7 | 2659.1 | 2535.4 | 2395.4 | 2130.4 | 1868.3 | 1644.0 | 1441.7 | 1246.0 |
| 12.5° | 3985.1 | 3517.7 | 3130.4 | 2750.0 | 2581.5 | 2411.7 | 2088.3 | 1775.8 | 1508.2 | 1266.4 | 1040.7 |
| 15°   | 4322.1 | 3748.8 | 3250.1 | 2790.9 | 2584.3 | 2380.5 | 2000.0 | 1648.2 | 1347.8 | 1070.7 | 826.1  |
| 17.5° | 4562.6 | 3864.2 | 3289.4 | 2754.2 | 2513.6 | 2285.4 | 1869.6 | 1493.3 | 1169.9 | 880.5  | 644.0  |
| 20°   | 4709.3 | 3911.8 | 3269.0 | 2686.1 | 2430.8 | 2194.3 | 1773.1 | 1407.6 | 1093.7 | 843.8  | 683.5  |
| 22.5° | 4805.8 | 3957.9 | 3277.3 | 2684.9 | 2429.4 | 2206.6 | 1813.9 | 1471.5 | 1216.0 | 1081.6 | 1062.5 |
| 25°   | 4909.0 | 4023.2 | 3337.0 | 2746.0 | 2508.2 | 2301.7 | 1921.2 | 1587.0 | 1373.6 | 1316.6 | 1324.8 |
| 27.5° | 4903.6 | 3994.6 | 3279.9 | 2693.0 | 2442.9 | 2233.8 | 1788.1 | 1365.5 | 1165.8 | 1005.5 | 947.0  |
| 30°   | 4611.6 | 3664.5 | 2891.4 | 2233.8 | 1939.0 | 1682.1 | 1095.1 | 711.9  | 491.8  | 430.8  | 369.5  |
| 32.5° | 3928.1 | 2968.8 | 2161.8 | 1544.9 | 1213.4 | 906.3  | 430.8  | 228.3  | 194.3  | 163.0  | 148.1  |
| 35°   | 3266.4 | 2366.9 | 1616.8 | 933.5  | 589.8  | 365.5  | 154.9  | 101.9  | 96.5   | 91.1   | 91.1   |
| 37.5° | 2699.8 | 1858.8 | 1044.9 | 394.1  | 216.0  | 131.8  | 74.7   | 67.9   | 65.3   | 63.9   | 63.9   |
| 40°   | 2111.5 | 1212.0 | 452.5  | 130.4  | 69.3   | 59.8   | 53.0   | 50.4   | 49.0   | 47.6   | 49.0   |
| 42.5° | 1246.0 | 487.8  | 131.8  | 49.0   | 46.2   | 43.5   | 39.5   | 38.1   | 38.1   | 36.7   | 38.1   |
| 45°   | 423.9  | 126.3  | 43.5   | 35.3   | 32.6   | 32.6   | 29.8   | 29.8   | 29.8   | 28.6   | 31.2   |
| 47.5° | 110.0  | 39.5   | 28.6   | 25.8   | 24.4   | 24.4   | 23.2   | 23.2   | 23.2   | 23.2   | 24.4   |
| 50°   | 38.1   | 25.8   | 20.4   | 19.0   | 17.7   | 19.0   | 17.7   | 17.7   | 17.7   | 17.7   | 19.0   |
| 52.5° | 23.2   | 17.7   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   |
| 55°   | 14.9   | 13.5   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 13.5   | 13.5   | 13.5   | 13.5   |
| 57.5° | 12.3   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 12.3   | 10.9   | 10.9   | 12.3   | 13.5   |
| 60°   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 12.3   | 12.3   | 13.5   |
| 62.5° | 9.5    | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 12.3   | 12.3   | 12.3   | 13.5   |
| 65°   | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 12.3   | 12.3   | 12.3   | 13.5   | 13.5   |
| 67.5° | 8.1    | 8.1    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 12.3   | 12.3   | 12.3   | 13.5   |
| 70°   | 8.1    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 12.3   | 12.3   |
| 72.5° | 6.8    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 12.3   |
| 75°   | 6.8    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 12.3   |
| 77.5° | 6.8    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 12.3   |
| 80°   | 6.8    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 10.9   |
| 82.5° | 6.8    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   | 10.9   |
| 85°   | 6.8    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 10.9   | 10.9   | 10.9   |
| 87.5° | 6.8    | 8.1    | 8.1    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    |
| 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°    | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 |
| 2.5°  | 1633.1 | 1610.1 | 1528.5 | 1517.7 | 1504.1 | 1437.5 | 1410.4 | 1364.1 | 1299.0 | 1279.9 | 1256.9 |
| 5°    | 1474.1 | 1398.2 | 1278.5 | 1246.0 | 1210.6 | 1106.0 | 1042.1 | 966.0  | 881.8  | 835.6  | 792.1  |
| 7.5°  | 1271.8 | 1165.8 | 1006.9 | 943.0  | 903.5  | 789.4  | 687.5  | 585.6  | 462.0  | 391.3  | 346.5  |
| 10°   | 1046.2 | 900.9  | 735.1  | 661.7  | 608.7  | 442.9  | 346.5  | 301.6  | 259.5  | 225.5  | 195.7  |
| 12.5° | 819.3  | 654.9  | 467.5  | 383.2  | 341.1  | 282.7  | 229.7  | 173.9  | 154.9  | 153.5  | 148.1  |
| 15°   | 600.6  | 417.1  | 315.2  | 283.9  | 254.1  | 182.1  | 180.7  | 180.7  | 186.2  | 190.2  | 191.6  |
| 17.5° | 442.9  | 366.9  | 288.1  | 269.0  | 282.7  | 293.6  | 312.5  | 341.1  | 364.1  | 429.4  | 415.7  |
| 20°   | 649.4  | 644.0  | 702.4  | 777.2  | 830.2  | 943.0  | 1085.6 | 1247.3 | 1415.7 | 1603.3 | 1745.9 |
| 22.5° | 1114.1 | 1250.1 | 1356.0 | 1445.7 | 1493.3 | 1621.0 | 1733.7 | 1789.5 | 1822.1 | 1805.8 | 1782.6 |
| 25°   | 1361.5 | 1410.4 | 1377.8 | 1346.6 | 1350.6 | 1235.1 | 1150.9 | 1043.5 | 952.5  | 869.6  | 820.7  |
| 27.5° | 813.8  | 744.5  | 646.8  | 578.9  | 565.2  | 487.8  | 430.8  | 370.9  | 353.2  | 299.0  | 275.8  |
| 30°   | 293.6  | 273.0  | 241.8  | 217.4  | 214.6  | 194.3  | 182.1  | 168.5  | 167.1  | 154.9  | 148.1  |
| 32.5° | 133.2  | 133.2  | 122.3  | 124.9  | 122.3  | 118.3  | 116.9  | 112.8  | 112.8  | 108.6  | 106.0  |
| 35°   | 87.0   | 88.3   | 87.0   | 87.0   | 85.6   | 85.6   | 85.6   | 82.8   | 84.2   | 81.6   | 77.4   |
| 37.5° | 63.9   | 65.3   | 62.5   | 63.9   | 63.9   | 63.9   | 63.9   | 62.5   | 61.1   | 58.4   | 57.0   |
| 40°   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 49.0   | 47.6   | 47.6   | 46.2   | 43.5   |
| 42.5° | 38.1   | 39.5   | 39.5   | 39.5   | 39.5   | 39.5   | 39.5   | 39.5   | 39.5   | 38.1   | 38.1   |
| 45°   | 31.2   | 32.6   | 31.2   | 32.6   | 32.6   | 32.6   | 31.2   | 31.2   | 31.2   | 29.8   | 28.6   |
| 47.5° | 24.4   | 24.4   | 23.2   | 23.2   | 23.2   | 23.2   | 23.2   | 23.2   | 23.2   | 23.2   | 21.8   |
| 50°   | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 20.4   | 19.0   | 19.0   | 19.0   | 19.0   |
| 52.5° | 14.9   | 16.3   | 16.3   | 17.7   | 17.7   | 17.7   | 17.7   | 17.7   | 16.3   | 16.3   | 14.9   |
| 55°   | 13.5   | 14.9   | 14.9   | 16.3   | 16.3   | 16.3   | 16.3   | 14.9   | 14.9   | 14.9   | 13.5   |
| 57.5° | 13.5   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 14.9   | 13.5   | 13.5   | 12.3   | 12.3   |
| 60°   | 13.5   | 13.5   | 13.5   | 14.9   | 14.9   | 13.5   | 13.5   | 12.3   | 12.3   | 10.9   | 10.9   |
| 62.5° | 13.5   | 13.5   | 13.5   | 14.9   | 14.9   | 13.5   | 13.5   | 12.3   | 10.9   | 10.9   | 9.5    |
| 65°   | 13.5   | 14.9   | 13.5   | 14.9   | 14.9   | 13.5   | 13.5   | 12.3   | 10.9   | 10.9   | 9.5    |
| 67.5° | 13.5   | 14.9   | 14.9   | 14.9   | 13.5   | 13.5   | 13.5   | 12.3   | 10.9   | 10.9   | 9.5    |
| 70°   | 12.3   | 13.5   | 13.5   | 13.5   | 13.5   | 13.5   | 12.3   | 12.3   | 10.9   | 10.9   | 9.5    |
| 72.5° | 12.3   | 13.5   | 12.3   | 13.5   | 13.5   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 9.5    |
| 75°   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 9.5    | 9.5    |
| 77.5° | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 10.9   | 9.5    | 9.5    |
| 80°   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 9.5    | 9.5    | 8.1    |
| 82.5° | 10.9   | 12.3   | 12.3   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 9.5    | 9.5    | 8.1    |
| 85°   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 9.5    | 9.5    | 8.1    | 6.8    | 6.8    |
| 87.5° | 9.5    | 10.9   | 9.5    | 9.5    | 9.5    | 9.5    | 8.1    | 6.8    | 5.4    | 5.4    | 4.0    |
| 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: P1192817

CATALOG NUMBER: LDA6A75940D010TE LARH20SP 6LAL1LI 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 | 1793.5 |
| 2.5°  | 1220.1 | 1186.2 | 1187.6 | 1193.0 | 1159.0 | 1141.3 | 1137.2 | 1119.5 |
| 5°    | 733.7  | 694.3  | 687.5  | 682.1  | 634.5  | 615.5  | 600.6  | 619.6  |
| 7.5°  | 315.2  | 300.2  | 297.6  | 293.6  | 271.8  | 260.9  | 255.5  | 260.9  |
| 10°   | 156.2  | 146.7  | 148.1  | 149.5  | 142.7  | 138.6  | 137.2  | 135.8  |
| 12.5° | 154.9  | 153.5  | 154.9  | 154.9  | 156.2  | 153.5  | 154.9  | 154.9  |
| 15°   | 201.1  | 201.1  | 205.1  | 207.9  | 214.6  | 213.4  | 216.0  | 218.8  |
| 17.5° | 501.3  | 475.5  | 489.2  | 489.2  | 550.3  | 495.9  | 542.2  | 500.1  |
| 20°   | 1970.2 | 2062.5 | 2156.4 | 2235.2 | 2315.3 | 2339.7 | 2387.3 | 2373.6 |
| 22.5° | 1747.3 | 1758.2 | 1744.5 | 1729.6 | 1725.6 | 1729.6 | 1656.3 | 1667.2 |
| 25°   | 750.0  | 744.5  | 722.8  | 699.8  | 706.5  | 711.9  | 686.1  | 661.7  |
| 27.5° | 256.7  | 250.0  | 243.2  | 237.8  | 235.1  | 230.9  | 222.8  | 217.4  |
| 30°   | 145.5  | 141.3  | 138.6  | 137.2  | 134.6  | 131.8  | 127.7  | 124.9  |
| 32.5° | 104.6  | 101.9  | 100.5  | 99.1   | 96.5   | 93.7   | 89.7   | 88.3   |
| 35°   | 77.4   | 74.7   | 73.4   | 72.0   | 69.3   | 66.5   | 65.3   | 63.9   |
| 37.5° | 57.0   | 54.4   | 54.4   | 54.4   | 50.4   | 47.6   | 46.2   | 44.9   |
| 40°   | 43.5   | 42.1   | 42.1   | 42.1   | 39.5   | 38.1   | 36.7   | 36.7   |
| 42.5° | 38.1   | 36.7   | 36.7   | 36.7   | 34.0   | 32.6   | 32.6   | 31.2   |
| 45°   | 28.6   | 27.2   | 27.2   | 25.8   | 24.4   | 24.4   | 23.2   | 21.8   |
| 47.5° | 21.8   | 20.4   | 20.4   | 20.4   | 19.0   | 17.7   | 17.7   | 16.3   |
| 50°   | 17.7   | 17.7   | 16.3   | 17.7   | 14.9   | 14.9   | 14.9   | 13.5   |
| 52.5° | 14.9   | 14.9   | 13.5   | 13.5   | 12.3   | 12.3   | 12.3   | 10.9   |
| 55°   | 13.5   | 12.3   | 12.3   | 12.3   | 10.9   | 10.9   | 10.9   | 9.5    |
| 57.5° | 10.9   | 10.9   | 9.5    | 9.5    | 8.1    | 8.1    | 8.1    | 8.1    |
| 60°   | 9.5    | 9.5    | 8.1    | 8.1    | 6.8    | 6.8    | 6.8    | 6.8    |
| 62.5° | 9.5    | 8.1    | 8.1    | 8.1    | 6.8    | 6.8    | 6.8    | 6.8    |
| 65°   | 9.5    | 8.1    | 8.1    | 8.1    | 6.8    | 6.8    | 6.8    | 6.8    |
| 67.5° | 9.5    | 8.1    | 8.1    | 8.1    | 6.8    | 6.8    | 6.8    | 6.8    |
| 70°   | 9.5    | 9.5    | 8.1    | 8.1    | 8.1    | 6.8    | 6.8    | 6.8    |
| 72.5° | 9.5    | 9.5    | 8.1    | 8.1    | 8.1    | 8.1    | 6.8    | 6.8    |
| 75°   | 8.1    | 8.1    | 8.1    | 8.1    | 6.8    | 6.8    | 6.8    | 6.8    |
| 77.5° | 8.1    | 8.1    | 8.1    | 8.1    | 6.8    | 6.8    | 6.8    | 6.8    |
| 80°   | 8.1    | 8.1    | 6.8    | 6.8    | 6.8    | 6.8    | 6.8    | 6.8    |
| 82.5° | 8.1    | 6.8    | 6.8    | 6.8    | 6.8    | 5.4    | 5.4    | 5.4    |
| 85°   | 5.4    | 5.4    | 5.4    | 5.4    | 4.0    | 4.0    | 4.0    | 4.0    |
| 87.5° | 4.0    | 2.6    | 2.6    | 2.6    | 1.4    | 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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1121 Highway 74 South

Peachtree City, GA 30269

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(END OF REPORT)