

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: P1212688

Luminaire Tested: **LDSQA6A70927D010TE LARH30NF 6LSQA1H 30°**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P1212688  
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: LDSQA6A70927D010TE LARH30NF 6LSQA1H 30°  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 30° NARROW FLOOD, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

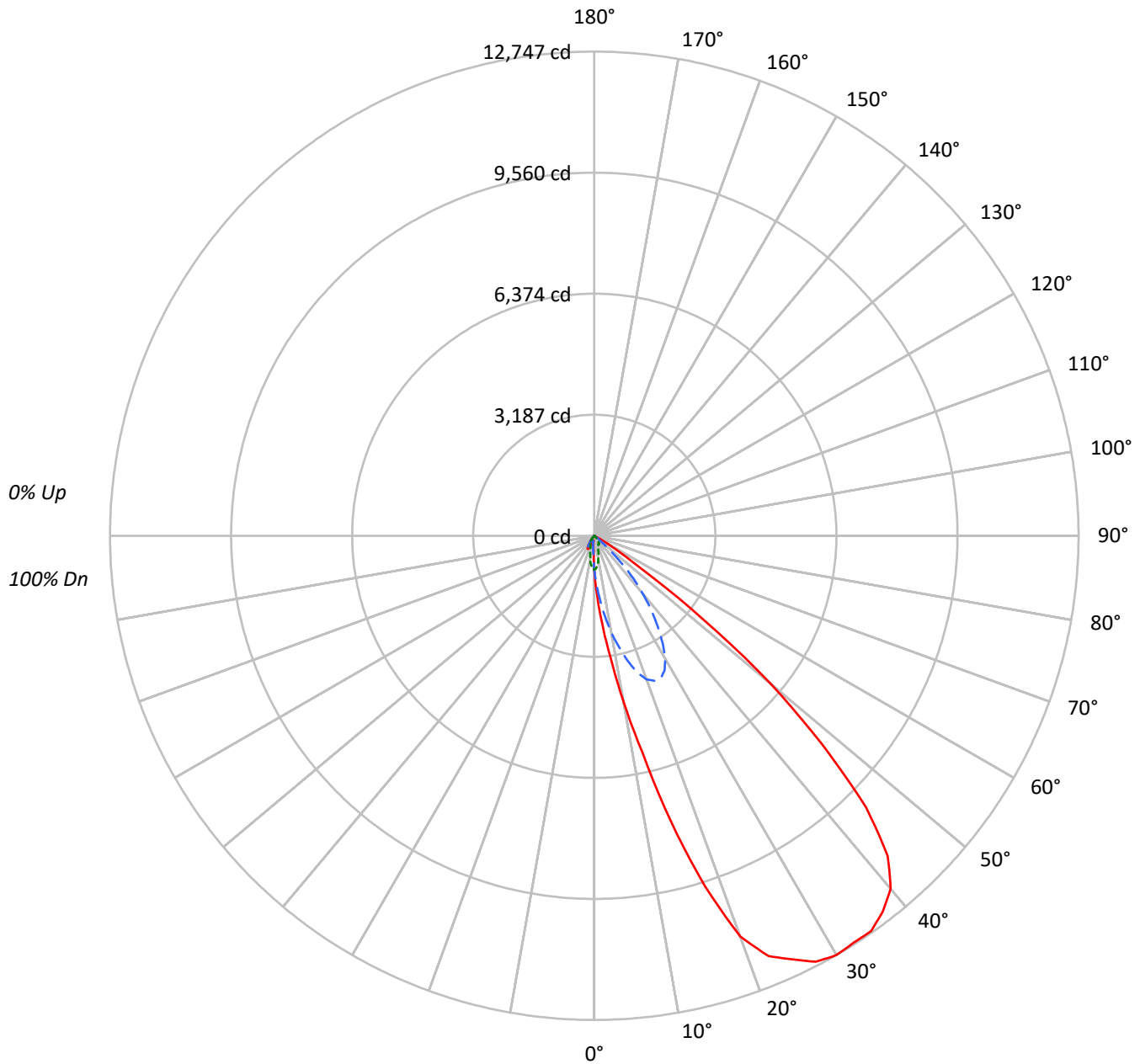
Lumens per Lamp: N/A  
Luminaire Lumens: 4969.5 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Spacing Criteria (0/90/45): 2.58 / 0.47 / 1.37  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 78.1  
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

TEST NUMBER: P1212688

CATALOG NUMBER: LDSQA6A70927D010TE LARH30NF 6LSQA1H 30°

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212688

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98  | 99  | 97  | 95  | 95  | 94  | 93  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 85  | 83  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 78  | 86  | 81  | 77  | 83  | 79  | 76  | 81  | 77  | 74  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 67  | 61  | 71  | 65  | 61  | 70  | 64  | 60  | 68  | 63  | 60  |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 54  |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  | 59  | 53  | 49  | 57  | 52  | 48  |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 47  | 43  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 43  | 39  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 38591  | 38591 | 38591 |
| 5°  | 99000  | 35112 | 10935 |
| 10° | 192979 | 26980 | 5251  |
| 15° | 346424 | 18329 | 7047  |
| 20° | 514326 | 13911 | 11633 |
| 25° | 584612 | 11463 | 18243 |
| 30° | 633730 | 12534 | 17162 |
| 35° | 667528 | 8126  | 10638 |
| 40° | 681960 | 3603  | 5182  |
| 45° | 615944 | 1376  | 1924  |
| 50° | 405460 | 549   | 549   |
| 55° | 111029 | 480   | 0     |
| 60° | 22174  | 551   | 0     |
| 65° | 1559   | 744   | 0     |
| 70° | 227    | 919   | 0     |
| 75° | 0      | 1364  | 0     |
| 80° | 0      | 2033  | 223   |
| 85° | 0      | 4051  | 445   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.8  | 2.2       |
| 10°-20°   | 583.3  | 11.7      |
| 20°-30°   | 1322.1 | 26.6      |
| 30°-40°   | 1587.0 | 31.9      |
| 40°-50°   | 1118.5 | 22.5      |
| 50°-60°   | 230.8  | 4.6       |
| 60°-70°   | 8.2    | 0.2       |
| 70°-80°   | 4.9    | 0.1       |
| 80°-90°   | 4.8    | 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°    | 2015.3 | 40.6      |
| 0°-40°    | 3602.3 | 72.5      |
| 0°-60°    | 4951.6 | 99.6      |
| 0°-90°    | 4969.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4969.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90° | 135° | 180° | Flux |
|-----|-------|------|-----|------|------|------|
| 0°  | 896   | 896  | 896 | 896  | 896  |      |
| 5°  | 2291  | 1669 | 812 | 338  | 253  | 282  |
| 15° | 7772  | 3419 | 411 | 146  | 158  | 2306 |
| 25° | 12306 | 4136 | 241 | 338  | 384  | 5679 |
| 35° | 12700 | 2896 | 155 | 202  | 202  | 7895 |
| 45° | 10116 | 993  | 23  | 31   | 32   | 7440 |
| 55° | 1479  | 20   | 6   | 5    | 0    | 1949 |
| 65° | 15    | 5    | 7   | 5    | 0    | 46   |
| 75° | 0     | 5    | 8   | 6    | 0    | 0    |
| 85° | 0     | 6    | 8   | 6    | 1    | 0    |
| 90° | 0     | 0    | 0   | 0    | 0    |      |

TEST NUMBER: P1212688

CATALOG NUMBER: LDSQA6A70927D010TE LARH30NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 22.5°   | 25°     | 30°    | 35°    | 40°    | 45°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 896.3   | 896.3   | 896.3   | 896.3   | 896.3   | 896.3   | 896.3   | 896.3  | 896.3  | 896.3  | 896.3  |
| 2.5°  | 1528.0  | 1481.9  | 1499.9  | 1446.6  | 1434.9  | 1424.9  | 1434.9  | 1377.1 | 1344.6 | 1303.0 | 1269.6 |
| 5°    | 2290.6  | 2235.5  | 2248.1  | 2155.0  | 2112.6  | 2083.6  | 2078.3  | 1959.0 | 1869.5 | 1771.0 | 1668.9 |
| 7.5°  | 3188.8  | 3136.4  | 3129.1  | 2984.5  | 2896.9  | 2847.3  | 2826.5  | 2655.6 | 2501.2 | 2325.8 | 2134.3 |
| 10°   | 4414.0  | 4294.8  | 4257.8  | 4048.1  | 3880.9  | 3775.2  | 3645.1  | 3372.2 | 3101.2 | 2836.3 | 2592.5 |
| 12.5° | 5839.9  | 5774.9  | 5682.7  | 5313.1  | 5020.3  | 4870.3  | 4676.1  | 4249.6 | 3839.3 | 3402.0 | 2993.6 |
| 15°   | 7771.8  | 7540.5  | 7383.2  | 6849.2  | 6377.5  | 6146.3  | 5862.5  | 5210.1 | 4590.3 | 4036.4 | 3419.1 |
| 17.5° | 9659.4  | 9538.4  | 9292.5  | 8599.5  | 7872.9  | 7507.9  | 7085.0  | 6198.7 | 5323.1 | 4535.2 | 3781.6 |
| 20°   | 11225.2 | 11111.5 | 10831.3 | 10178.1 | 9372.1  | 8833.5  | 8301.3  | 7085.0 | 5941.1 | 4932.7 | 4023.6 |
| 22.5° | 11975.3 | 11902.9 | 11674.4 | 11115.0 | 10428.3 | 9916.0  | 9344.0  | 7839.5 | 6398.3 | 5193.0 | 4133.9 |
| 25°   | 12305.9 | 12272.5 | 12125.2 | 11684.3 | 11037.4 | 10602.7 | 10062.4 | 8373.6 | 6682.9 | 5314.0 | 4135.7 |
| 27.5° | 12641.2 | 12647.6 | 12322.3 | 11973.5 | 11359.9 | 10942.5 | 10422.0 | 8610.3 | 6734.5 | 5246.3 | 4000.2 |
| 30°   | 12746.9 | 12680.1 | 12536.4 | 12035.8 | 11453.0 | 11009.3 | 10451.0 | 8501.0 | 6523.0 | 4968.0 | 3730.0 |
| 32.5° | 12703.6 | 12677.3 | 12519.3 | 11989.8 | 11294.9 | 10806.0 | 10171.7 | 8067.3 | 6105.6 | 4570.4 | 3346.8 |
| 35°   | 12700.0 | 12651.2 | 12288.8 | 11834.3 | 10978.6 | 10375.0 | 9539.1  | 7366.1 | 5514.6 | 4046.2 | 2896.0 |
| 37.5° | 12470.5 | 12349.4 | 12077.4 | 11464.7 | 10337.1 | 9571.8  | 8634.7  | 6509.5 | 4791.8 | 3458.0 | 2448.7 |
| 40°   | 12133.4 | 11970.8 | 11612.9 | 10685.9 | 9225.7  | 8343.8  | 7429.4  | 5536.3 | 4026.4 | 2877.9 | 1973.4 |
| 42.5° | 11429.5 | 11183.8 | 10677.7 | 9402.8  | 7744.6  | 6949.5  | 6188.7  | 4550.5 | 3283.7 | 2344.8 | 1506.3 |
| 45°   | 10115.7 | 9779.5  | 9095.6  | 7695.9  | 6256.5  | 5607.7  | 4995.9  | 3661.3 | 2628.6 | 1739.4 | 993.1  |
| 47.5° | 8130.5  | 7818.7  | 7196.2  | 6126.4  | 4906.5  | 4358.0  | 3870.1  | 2723.4 | 1781.9 | 1007.5 | 474.4  |
| 50°   | 6053.2  | 5785.7  | 5299.6  | 4257.8  | 3293.6  | 2862.6  | 2445.2  | 1547.0 | 834.9  | 478.9  | 197.0  |
| 52.5° | 3611.7  | 3478.8  | 3047.8  | 2361.1  | 1626.4  | 1401.5  | 1125.0  | 655.1  | 421.1  | 173.6  | 53.3   |
| 55°   | 1479.1  | 1365.3  | 1203.5  | 965.9   | 707.5   | 600.0   | 513.2   | 323.4  | 131.0  | 36.1   | 19.9   |
| 57.5° | 668.7   | 643.4   | 570.2   | 448.2   | 325.3   | 272.9   | 184.3   | 61.5   | 28.9   | 18.1   | 11.7   |
| 60°   | 257.5   | 232.2   | 198.8   | 107.5   | 46.0    | 38.9    | 31.6    | 20.8   | 14.4   | 9.9    | 7.3    |
| 62.5° | 37.1    | 35.2    | 31.6    | 25.4    | 19.9    | 18.1    | 15.3    | 10.8   | 8.2    | 6.4    | 5.5    |
| 65°   | 15.3    | 15.3    | 13.5    | 10.8    | 9.1     | 8.2     | 7.3     | 5.5    | 4.6    | 4.6    | 4.6    |
| 67.5° | 6.4     | 6.4     | 5.5     | 4.6     | 3.6     | 3.6     | 3.6     | 2.7    | 3.6    | 3.6    | 4.6    |
| 70°   | 1.8     | 1.8     | 1.8     | 1.8     | 1.8     | 1.8     | 2.7     | 2.7    | 3.6    | 3.6    | 4.6    |
| 72.5° | 0.0     | 0.0     | 0.9     | 0.9     | 1.8     | 1.8     | 1.8     | 2.7    | 3.6    | 4.6    | 4.6    |
| 75°   | 0.0     | 0.0     | 0.9     | 0.9     | 1.8     | 1.8     | 1.8     | 2.7    | 3.6    | 4.6    | 4.6    |
| 77.5° | 0.0     | 0.0     | 0.9     | 0.9     | 1.8     | 1.8     | 2.7     | 2.7    | 3.6    | 4.6    | 4.6    |
| 80°   | 0.0     | 0.0     | 0.9     | 0.9     | 1.8     | 1.8     | 2.7     | 2.7    | 3.6    | 4.6    | 5.5    |
| 82.5° | 0.0     | 0.0     | 0.9     | 0.9     | 1.8     | 1.8     | 2.7     | 2.7    | 3.6    | 4.6    | 5.5    |
| 85°   | 0.0     | 0.0     | 0.9     | 0.9     | 1.8     | 1.8     | 2.7     | 2.7    | 3.6    | 4.6    | 5.5    |
| 87.5° | 0.0     | 0.0     | 0.9     | 0.9     | 1.8     | 1.8     | 2.7     | 2.7    | 3.6    | 4.6    | 5.5    |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°   | 90°   | 95°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 896.3  | 896.3  | 896.3  | 896.3  | 896.3  | 896.3  | 896.3  | 896.3  | 896.3 | 896.3 | 896.3 |
| 2.5°  | 1240.6 | 1182.7 | 1166.5 | 1115.9 | 1073.4 | 1052.7 | 1026.5 | 967.7  | 923.5 | 864.8 | 829.5 |
| 5°    | 1597.6 | 1488.2 | 1401.5 | 1295.7 | 1226.2 | 1181.0 | 1110.5 | 1003.0 | 916.2 | 812.4 | 738.3 |
| 7.5°  | 1983.4 | 1783.7 | 1627.3 | 1453.0 | 1352.6 | 1274.0 | 1153.9 | 999.3  | 871.9 | 733.7 | 618.9 |
| 10°   | 2355.6 | 2057.5 | 1811.7 | 1561.4 | 1429.5 | 1320.2 | 1154.8 | 960.6  | 791.6 | 617.1 | 496.1 |
| 12.5° | 2683.7 | 2298.8 | 1952.6 | 1631.0 | 1467.4 | 1330.9 | 1124.1 | 890.9  | 686.8 | 507.8 | 401.2 |
| 15°   | 2957.5 | 2485.7 | 2052.0 | 1657.2 | 1470.2 | 1307.5 | 1059.9 | 791.6  | 570.2 | 411.2 | 336.2 |
| 17.5° | 3165.2 | 2584.3 | 2082.7 | 1625.5 | 1417.8 | 1240.6 | 961.5  | 666.0  | 462.7 | 348.8 | 282.9 |
| 20°   | 3272.8 | 2603.2 | 2038.5 | 1539.7 | 1321.1 | 1139.4 | 832.3  | 540.4  | 392.2 | 303.6 | 236.7 |
| 22.5° | 3286.4 | 2550.0 | 1932.8 | 1416.9 | 1199.1 | 1016.6 | 689.4  | 450.8  | 349.7 | 268.3 | 208.8 |
| 25°   | 3205.9 | 2434.2 | 1781.9 | 1277.6 | 1065.4 | 875.6  | 561.1  | 403.9  | 318.1 | 241.3 | 240.4 |
| 27.5° | 3034.2 | 2235.5 | 1601.2 | 1115.9 | 903.6  | 712.0  | 476.2  | 365.0  | 283.8 | 255.7 | 272.0 |
| 30°   | 2792.1 | 1980.7 | 1378.9 | 911.7  | 705.6  | 547.6  | 401.2  | 301.0  | 249.3 | 252.1 | 265.7 |
| 32.5° | 2464.2 | 1664.4 | 1117.7 | 667.8  | 505.0  | 412.1  | 301.0  | 205.1  | 207.0 | 207.9 | 219.6 |
| 35°   | 2052.0 | 1334.6 | 834.9  | 449.0  | 355.2  | 290.0  | 169.9  | 150.9  | 153.7 | 154.6 | 162.6 |
| 37.5° | 1644.5 | 1025.6 | 554.8  | 299.1  | 223.2  | 152.8  | 105.7  | 101.1  | 103.0 | 102.0 | 111.2 |
| 40°   | 1259.6 | 714.7  | 332.5  | 148.2  | 85.8   | 71.4   | 65.0   | 62.4   | 63.3  | 64.1  | 69.6  |
| 42.5° | 891.8  | 387.7  | 164.5  | 56.0   | 45.2   | 41.6   | 38.9   | 37.1   | 38.0  | 38.0  | 41.6  |
| 45°   | 452.7  | 183.4  | 56.0   | 30.7   | 28.0   | 25.4   | 23.5   | 22.6   | 22.6  | 22.6  | 24.4  |
| 47.5° | 196.0  | 60.6   | 26.3   | 19.0   | 17.2   | 16.2   | 14.4   | 13.5   | 13.5  | 13.5  | 14.4  |
| 50°   | 61.5   | 24.4   | 16.2   | 12.6   | 10.8   | 9.9    | 9.1    | 9.1    | 9.1   | 8.2   | 9.1   |
| 52.5° | 22.6   | 15.3   | 10.8   | 8.2    | 7.3    | 7.3    | 7.3    | 6.4    | 7.3   | 6.4   | 7.3   |
| 55°   | 13.5   | 9.9    | 7.3    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4   | 6.4   | 6.4   |
| 57.5° | 9.1    | 7.3    | 6.4    | 6.4    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4   | 6.4   | 6.4   |
| 60°   | 6.4    | 6.4    | 5.5    | 5.5    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4   | 6.4   | 6.4   |
| 62.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4   | 6.4   | 7.3   |
| 65°   | 4.6    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.4    | 6.4    | 7.3   | 7.3   | 7.3   |
| 67.5° | 4.6    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 7.3    | 7.3   | 7.3   | 7.3   |
| 70°   | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 7.3    | 7.3    | 7.3   | 7.3   | 8.2   |
| 72.5° | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 7.3    | 7.3    | 8.2   | 8.2   | 8.2   |
| 75°   | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    | 8.2   | 8.2   | 8.2   |
| 77.5° | 5.5    | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    | 7.3    | 8.2    | 8.2   | 8.2   | 8.2   |
| 80°   | 5.5    | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    | 8.2    | 8.2    | 8.2   | 8.2   | 9.1   |
| 82.5° | 5.5    | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    | 8.2    | 8.2    | 8.2   | 8.2   | 9.1   |
| 85°   | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    | 7.3    | 8.2    | 8.2    | 8.2   | 8.2   | 9.1   |
| 87.5° | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    | 7.3    | 8.2    | 8.2    | 9.1   | 8.2   | 9.1   |
| 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):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 896.3 | 896.3 | 896.3 | 896.3  | 896.3 | 896.3 | 896.3 | 896.3 | 896.3 | 896.3 | 896.3 |
| 2.5°  | 782.5 | 730.1 | 693.9 | 680.4  | 654.2 | 612.7 | 588.2 | 565.6 | 523.1 | 514.2 | 490.6 |
| 5°    | 653.2 | 569.3 | 509.6 | 487.0  | 457.2 | 422.0 | 387.7 | 365.0 | 338.0 | 327.1 | 310.8 |
| 7.5°  | 515.1 | 431.0 | 379.5 | 361.4  | 340.6 | 311.7 | 281.1 | 258.4 | 230.4 | 215.9 | 202.4 |
| 10°   | 404.8 | 342.4 | 299.1 | 281.1  | 259.4 | 228.7 | 197.0 | 167.2 | 142.7 | 127.4 | 124.7 |
| 12.5° | 328.9 | 277.4 | 231.3 | 212.3  | 187.1 | 156.3 | 133.8 | 132.9 | 131.0 | 130.1 | 132.0 |
| 15°   | 269.2 | 219.6 | 170.8 | 150.0  | 142.7 | 141.8 | 144.6 | 147.3 | 146.4 | 149.1 | 150.9 |
| 17.5° | 221.4 | 168.1 | 157.2 | 158.1  | 159.0 | 161.7 | 166.3 | 173.6 | 174.3 | 178.9 | 182.5 |
| 20°   | 180.7 | 178.0 | 182.5 | 186.2  | 188.9 | 194.2 | 204.2 | 213.2 | 215.9 | 222.3 | 229.4 |
| 22.5° | 205.1 | 213.2 | 223.2 | 227.8  | 231.3 | 241.3 | 252.1 | 266.5 | 272.0 | 280.2 | 290.0 |
| 25°   | 247.5 | 261.2 | 276.5 | 282.0  | 287.3 | 303.6 | 316.3 | 333.4 | 338.0 | 347.9 | 357.8 |
| 27.5° | 282.9 | 297.3 | 313.6 | 320.7  | 325.3 | 341.5 | 352.4 | 363.2 | 363.2 | 368.7 | 375.8 |
| 30°   | 277.4 | 289.1 | 302.6 | 308.1  | 309.9 | 321.6 | 332.5 | 336.2 | 334.4 | 337.1 | 342.4 |
| 32.5° | 230.4 | 239.5 | 250.2 | 254.8  | 256.6 | 264.8 | 273.8 | 273.8 | 272.9 | 272.9 | 276.5 |
| 35°   | 170.8 | 177.1 | 182.5 | 187.1  | 189.8 | 195.1 | 203.3 | 202.4 | 202.4 | 200.6 | 203.3 |
| 37.5° | 114.8 | 118.4 | 124.7 | 126.5  | 127.4 | 131.0 | 137.4 | 137.4 | 135.6 | 136.5 | 138.2 |
| 40°   | 69.6  | 74.1  | 77.7  | 78.6   | 80.5  | 83.1  | 87.6  | 87.6  | 87.6  | 87.6  | 88.5  |
| 42.5° | 41.6  | 44.3  | 46.9  | 46.9   | 47.8  | 51.5  | 53.3  | 53.3  | 53.3  | 53.3  | 54.2  |
| 45°   | 24.4  | 25.4  | 27.2  | 28.0   | 28.0  | 29.8  | 30.7  | 30.7  | 30.7  | 30.7  | 31.6  |
| 47.5° | 14.4  | 15.3  | 15.3  | 16.2   | 16.2  | 17.2  | 18.1  | 18.1  | 17.2  | 17.2  | 17.2  |
| 50°   | 9.1   | 9.1   | 9.1   | 9.1    | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   | 9.1   |
| 52.5° | 7.3   | 7.3   | 7.3   | 7.3    | 6.4   | 6.4   | 6.4   | 6.4   | 5.5   | 5.5   | 4.6   |
| 55°   | 6.4   | 6.4   | 6.4   | 6.4    | 6.4   | 5.5   | 5.5   | 5.5   | 4.6   | 3.6   | 2.7   |
| 57.5° | 6.4   | 6.4   | 6.4   | 6.4    | 6.4   | 5.5   | 5.5   | 4.6   | 3.6   | 3.6   | 2.7   |
| 60°   | 6.4   | 6.4   | 6.4   | 6.4    | 6.4   | 5.5   | 5.5   | 4.6   | 3.6   | 3.6   | 2.7   |
| 62.5° | 7.3   | 7.3   | 6.4   | 6.4    | 6.4   | 5.5   | 5.5   | 4.6   | 4.6   | 3.6   | 2.7   |
| 65°   | 7.3   | 7.3   | 6.4   | 6.4    | 6.4   | 6.4   | 5.5   | 5.5   | 4.6   | 3.6   | 2.7   |
| 67.5° | 7.3   | 7.3   | 7.3   | 7.3    | 6.4   | 6.4   | 6.4   | 5.5   | 4.6   | 3.6   | 2.7   |
| 70°   | 8.2   | 8.2   | 7.3   | 7.3    | 7.3   | 6.4   | 6.4   | 5.5   | 4.6   | 4.6   | 3.6   |
| 72.5° | 8.2   | 8.2   | 7.3   | 7.3    | 7.3   | 7.3   | 6.4   | 5.5   | 5.5   | 4.6   | 3.6   |
| 75°   | 8.2   | 8.2   | 8.2   | 8.2    | 7.3   | 7.3   | 6.4   | 6.4   | 5.5   | 4.6   | 3.6   |
| 77.5° | 8.2   | 8.2   | 8.2   | 8.2    | 7.3   | 7.3   | 7.3   | 6.4   | 5.5   | 4.6   | 3.6   |
| 80°   | 8.2   | 8.2   | 8.2   | 8.2    | 8.2   | 7.3   | 7.3   | 6.4   | 5.5   | 4.6   | 3.6   |
| 82.5° | 9.1   | 9.1   | 8.2   | 8.2    | 8.2   | 7.3   | 7.3   | 6.4   | 5.5   | 4.6   | 4.6   |
| 85°   | 9.1   | 9.1   | 8.2   | 8.2    | 8.2   | 7.3   | 7.3   | 6.4   | 5.5   | 5.5   | 4.6   |
| 87.5° | 9.1   | 9.1   | 8.2   | 8.2    | 8.2   | 7.3   | 7.3   | 6.4   | 5.5   | 5.5   | 4.6   |
| 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: P1212688

CATALOG NUMBER: LDSQA6A70927D010TE LARH30NF 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 896.3 | 896.3 | 896.3  | 896.3 | 896.3 | 896.3 | 896.3 | 896.3 |
| 2.5°  | 476.2 | 449.0 | 440.0  | 446.4 | 439.1 | 433.7 | 426.5 | 422.9 |
| 5°    | 298.2 | 278.3 | 272.0  | 273.8 | 267.4 | 262.1 | 254.8 | 253.0 |
| 7.5°  | 183.4 | 164.5 | 157.2  | 157.2 | 150.0 | 143.6 | 139.1 | 136.5 |
| 10°   | 122.8 | 119.2 | 120.1  | 121.0 | 120.1 | 121.0 | 118.4 | 120.1 |
| 12.5° | 132.0 | 130.1 | 132.0  | 132.9 | 132.9 | 134.7 | 131.0 | 133.8 |
| 15°   | 153.7 | 151.8 | 154.6  | 156.3 | 156.3 | 159.0 | 155.5 | 158.1 |
| 17.5° | 188.0 | 187.1 | 191.6  | 193.3 | 194.2 | 198.8 | 194.2 | 197.9 |
| 20°   | 237.6 | 236.7 | 243.1  | 245.8 | 244.9 | 253.9 | 247.5 | 253.9 |
| 22.5° | 301.9 | 300.0 | 309.0  | 311.7 | 312.7 | 324.4 | 319.0 | 323.4 |
| 25°   | 366.0 | 367.8 | 372.3  | 376.7 | 377.7 | 387.7 | 379.5 | 384.0 |
| 27.5° | 379.5 | 376.7 | 379.5  | 384.9 | 385.8 | 390.4 | 383.1 | 386.8 |
| 30°   | 343.3 | 338.9 | 339.7  | 346.1 | 347.9 | 349.7 | 343.3 | 345.2 |
| 32.5° | 279.2 | 272.0 | 272.0  | 278.3 | 280.2 | 282.9 | 272.0 | 276.5 |
| 35°   | 206.0 | 199.7 | 199.7  | 204.2 | 205.1 | 207.0 | 198.8 | 202.4 |
| 37.5° | 140.9 | 135.6 | 137.4  | 139.1 | 140.0 | 141.8 | 140.9 | 140.0 |
| 40°   | 90.4  | 86.7  | 89.4   | 89.4  | 90.4  | 91.3  | 91.3  | 92.2  |
| 42.5° | 55.1  | 52.4  | 54.2   | 54.2  | 55.1  | 55.1  | 55.1  | 56.0  |
| 45°   | 31.6  | 30.7  | 30.7   | 31.6  | 31.6  | 31.6  | 30.7  | 31.6  |
| 47.5° | 17.2  | 16.2  | 17.2   | 17.2  | 17.2  | 17.2  | 17.2  | 17.2  |
| 50°   | 9.1   | 8.2   | 8.2    | 8.2   | 8.2   | 8.2   | 8.2   | 8.2   |
| 52.5° | 4.6   | 3.6   | 3.6    | 3.6   | 2.7   | 3.6   | 2.7   | 2.7   |
| 55°   | 2.7   | 1.8   | 1.8    | 1.8   | 0.9   | 0.9   | 0.0   | 0.0   |
| 57.5° | 1.8   | 0.9   | 0.9    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 1.8   | 0.9   | 0.9    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 1.8   | 0.9   | 0.9    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 1.8   | 0.9   | 0.9    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 2.7   | 1.8   | 0.9    | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   |
| 70°   | 2.7   | 1.8   | 1.8    | 0.9   | 0.9   | 0.0   | 0.0   | 0.0   |
| 72.5° | 2.7   | 1.8   | 1.8    | 1.8   | 0.9   | 0.9   | 0.0   | 0.0   |
| 75°   | 2.7   | 1.8   | 1.8    | 1.8   | 0.9   | 0.9   | 0.0   | 0.0   |
| 77.5° | 2.7   | 2.7   | 1.8    | 1.8   | 0.9   | 0.9   | 0.9   | 0.0   |
| 80°   | 3.6   | 2.7   | 1.8    | 1.8   | 1.8   | 0.9   | 0.9   | 0.9   |
| 82.5° | 3.6   | 2.7   | 1.8    | 1.8   | 1.8   | 0.9   | 0.9   | 0.9   |
| 85°   | 3.6   | 2.7   | 2.7    | 1.8   | 1.8   | 0.9   | 0.9   | 0.9   |
| 87.5° | 3.6   | 2.7   | 2.7    | 1.8   | 1.8   | 0.9   | 0.9   | 0.9   |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0   | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

## Scaled Data Report



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

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Peachtree City, GA 30269

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(END OF REPORT)