

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: P1212686

Luminaire Tested: **LDSQA6A70927D010TE LARH20SP 6LSQA1H 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: P1212686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26686)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA6A70927D010TE LARH20SP 6LSQA1H 30°  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 20° SPOT, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

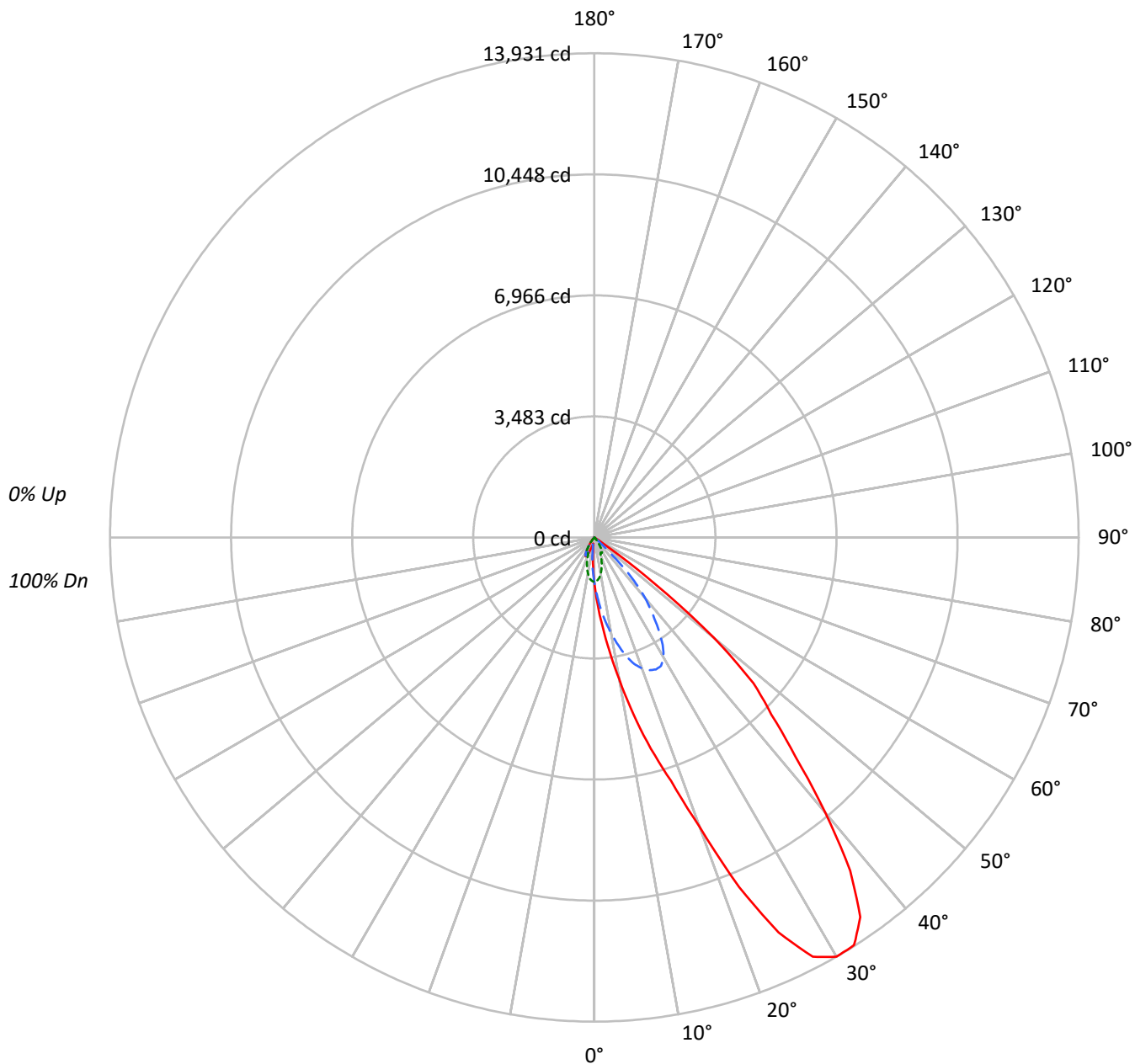
Lumens per Lamp: N/A  
Luminaire Lumens: 4548.4 lumens  
Efficiency: N/A  
Efficacy: 58.2 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.6 / 1.31  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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: P1212686

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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |  | 20  |     |     |  |     | 20  |     |  |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |  | 50  |     |     |  |     | 30  |     |  |     |     | 0   |
| 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 | 104 | 110 | 107 | 104 | 102 |  | 103 | 101 | 99  |  | 99  | 97  | 96  |  | 96  | 94  | 93  |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  |  | 95  | 91  | 88  |  | 92  | 89  | 86  |  | 89  | 86  | 84  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 80  |  | 87  | 82  | 78  |  | 84  | 80  | 77  |  | 82  | 79  | 76  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  |  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 75  | 71  | 68  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  |  | 73  | 67  | 63  |  | 71  | 66  | 62  |  | 69  | 65  | 61  |
| 6   | 80  | 69  | 62  | 57  | 79  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 55  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  |  | 62  | 55  | 51  |  | 60  | 55  | 50  |  | 59  | 54  | 50  |
| 8   | 70  | 59  | 51  | 46  | 69  | 58  | 51  | 46  |  | 57  | 50  | 46  |  | 56  | 50  | 46  |  | 54  | 49  | 45  |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  |  | 52  | 46  | 42  |  | 51  | 46  | 42  |  | 50  | 45  | 41  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 43  | 38  |  | 48  | 42  | 38  |  | 48  | 42  | 38  |  | 47  | 41  | 38  |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 55283  | 55283 | 55283 |
| 5°  | 107125 | 52685 | 17772 |
| 10° | 182001 | 46107 | 7979  |
| 15° | 280449 | 36774 | 12686 |
| 20° | 405987 | 23931 | 22066 |
| 25° | 595658 | 23098 | 28371 |
| 30° | 692589 | 21875 | 21741 |
| 35° | 701020 | 11590 | 11495 |
| 40° | 580397 | 4367  | 4822  |
| 45° | 438346 | 1486  | 1760  |
| 50° | 299902 | 549   | 549   |
| 55° | 41721  | 480   | 68    |
| 60° | 1085   | 474   | 0     |
| 65° | 275    | 652   | 0     |
| 70° | 113    | 806   | 0     |
| 75° | 0      | 1065  | 0     |
| 80° | 0      | 1810  | 223   |
| 85° | 0      | 3606  | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.7  | 3.0       |
| 10°-20°   | 569.4  | 12.5      |
| 20°-30°   | 1299.0 | 28.6      |
| 30°-40°   | 1503.2 | 33.0      |
| 40°-50°   | 906.6  | 19.9      |
| 50°-60°   | 123.2  | 2.7       |
| 60°-70°   | 4.0    | 0.1       |
| 70°-80°   | 4.3    | 0.1       |
| 80°-90°   | 4.1    | 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°    | 2003.1 | 44.0      |
| 0°-40°    | 3506.3 | 77.1      |
| 0°-60°    | 4536.0 | 99.7      |
| 0°-90°    | 4548.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4548.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90°  | 135° | 180° | Flux |
|-----|-------|------|------|------|------|------|
| 0°  | 1284  | 1284 | 1284 | 1284 | 1284 |      |
| 5°  | 2479  | 2029 | 1219 | 667  | 411  | 288  |
| 15° | 6292  | 3537 | 825  | 254  | 285  | 1863 |
| 25° | 12538 | 4191 | 486  | 585  | 597  | 5674 |
| 35° | 13337 | 3195 | 220  | 225  | 219  | 8038 |
| 45° | 7199  | 870  | 24   | 30   | 29   | 5629 |
| 55° | 556   | 6    | 6    | 5    | 1    | 1089 |
| 65° | 3     | 4    | 6    | 4    | 0    | 4    |
| 75° | 0     | 5    | 6    | 5    | 0    | 0    |
| 85° | 0     | 5    | 7    | 5    | 0    | 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°    | 1284.0  | 1284.0  | 1284.0  | 1284.0  | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 |
| 2.5°  | 1856.9  | 1839.8  | 1846.9  | 1827.9  | 1780.1 | 1770.2 | 1769.3 | 1756.6 | 1716.0 | 1684.3 | 1646.3 |
| 5°    | 2478.6  | 2477.7  | 2482.2  | 2441.5  | 2357.6 | 2331.3 | 2318.7 | 2287.9 | 2189.5 | 2113.5 | 2029.4 |
| 7.5°  | 3254.8  | 3249.4  | 3243.9  | 3169.8  | 3038.0 | 2987.3 | 2954.8 | 2843.6 | 2708.2 | 2573.5 | 2423.5 |
| 10°   | 4162.9  | 4160.1  | 4139.5  | 4009.3  | 3797.8 | 3704.7 | 3641.6 | 3465.3 | 3247.5 | 3056.0 | 2801.1 |
| 12.5° | 5217.4  | 5193.0  | 5155.9  | 4965.4  | 4675.2 | 4574.0 | 4434.8 | 4155.7 | 3821.4 | 3527.7 | 3171.6 |
| 15°   | 6291.7  | 6256.5  | 6190.6  | 5945.7  | 5586.1 | 5413.5 | 5241.0 | 4873.2 | 4419.5 | 3993.1 | 3536.6 |
| 17.5° | 7342.7  | 7303.8  | 7149.4  | 6733.6  | 6382.1 | 6171.6 | 5980.0 | 5475.0 | 4941.8 | 4393.4 | 3815.0 |
| 20°   | 8860.7  | 8719.8  | 8450.5  | 7795.3  | 7142.1 | 6762.6 | 6538.5 | 6004.4 | 5344.8 | 4706.0 | 4012.8 |
| 22.5° | 10888.4 | 10575.8 | 10001.9 | 8937.5  | 8004.1 | 7456.5 | 7089.7 | 6379.5 | 5634.8 | 4910.2 | 4134.9 |
| 25°   | 12538.4 | 12396.5 | 11744.1 | 10229.7 | 8773.1 | 8127.9 | 7617.4 | 6677.6 | 5846.4 | 5046.6 | 4190.9 |
| 27.5° | 13601.9 | 13566.7 | 12821.2 | 11299.6 | 9401.1 | 8554.4 | 7984.2 | 6874.7 | 5948.4 | 5075.6 | 4163.8 |
| 30°   | 13930.8 | 13985.9 | 13270.3 | 11662.8 | 9582.7 | 8640.2 | 8016.7 | 6877.3 | 5869.8 | 4944.6 | 3990.4 |
| 32.5° | 13906.5 | 13909.1 | 13031.7 | 11349.3 | 9287.2 | 8390.8 | 7745.7 | 6648.7 | 5579.7 | 4616.6 | 3660.5 |
| 35°   | 13337.2 | 13197.1 | 12204.9 | 10386.0 | 8599.6 | 7809.0 | 7208.9 | 6205.9 | 5101.7 | 4123.1 | 3195.1 |
| 37.5° | 12087.5 | 11904.1 | 10747.5 | 9152.6  | 7785.4 | 7054.4 | 6570.1 | 5625.0 | 4532.4 | 3596.3 | 2714.4 |
| 40°   | 10326.4 | 10066.2 | 9112.0  | 8005.9  | 6894.6 | 6345.0 | 5938.5 | 4975.2 | 3923.4 | 3079.4 | 2263.6 |
| 42.5° | 8563.5  | 8436.1  | 7805.3  | 6906.2  | 6145.4 | 5628.5 | 5203.9 | 4294.8 | 3337.9 | 2569.8 | 1693.4 |
| 45°   | 7199.0  | 7089.7  | 6665.9  | 6073.1  | 5326.8 | 4855.1 | 4445.7 | 3585.5 | 2593.4 | 1724.1 | 870.2  |
| 47.5° | 6205.0  | 6116.5  | 5710.8  | 5088.2  | 4269.5 | 3753.6 | 3331.6 | 2351.2 | 1469.3 | 744.5  | 217.8  |
| 50°   | 4477.3  | 4387.0  | 3989.4  | 3268.3  | 2529.2 | 2097.3 | 1793.6 | 1050.0 | 416.5  | 150.9  | 22.6   |
| 52.5° | 2194.8  | 2120.7  | 1850.6  | 1385.3  | 929.8  | 668.7  | 488.8  | 197.0  | 47.8   | 16.2   | 10.8   |
| 55°   | 555.8   | 510.5   | 425.6   | 267.4   | 131.0  | 78.6   | 50.6   | 18.1   | 11.7   | 9.1    | 6.4    |
| 57.5° | 31.6    | 30.7    | 28.0    | 20.8    | 15.3   | 13.5   | 11.7   | 9.1    | 6.4    | 5.5    | 4.6    |
| 60°   | 12.6    | 11.7    | 10.8    | 9.1     | 7.3    | 6.4    | 6.4    | 4.6    | 3.6    | 3.6    | 3.6    |
| 62.5° | 5.5     | 5.5     | 5.5     | 4.6     | 3.6    | 3.6    | 3.6    | 2.7    | 3.6    | 3.6    | 3.6    |
| 65°   | 2.7     | 2.7     | 2.7     | 1.8     | 1.8    | 1.8    | 2.7    | 2.7    | 2.7    | 3.6    | 3.6    |
| 67.5° | 1.8     | 0.9     | 0.9     | 0.9     | 1.8    | 1.8    | 1.8    | 2.7    | 2.7    | 3.6    | 3.6    |
| 70°   | 0.9     | 0.9     | 0.9     | 0.9     | 1.8    | 1.8    | 1.8    | 2.7    | 2.7    | 3.6    | 4.6    |
| 72.5° | 0.0     | 0.9     | 0.9     | 0.9     | 1.8    | 1.8    | 1.8    | 2.7    | 2.7    | 3.6    | 4.6    |
| 75°   | 0.0     | 0.9     | 0.9     | 0.9     | 1.8    | 1.8    | 1.8    | 2.7    | 3.6    | 3.6    | 4.6    |
| 77.5° | 0.0     | 0.9     | 0.9     | 0.9     | 1.8    | 1.8    | 1.8    | 2.7    | 3.6    | 3.6    | 4.6    |
| 80°   | 0.0     | 0.9     | 0.9     | 0.9     | 1.8    | 1.8    | 1.8    | 2.7    | 3.6    | 3.6    | 4.6    |
| 82.5° | 0.0     | 0.0     | 0.9     | 0.9     | 1.8    | 1.8    | 1.8    | 2.7    | 3.6    | 3.6    | 4.6    |
| 85°   | 0.0     | 0.0     | 0.9     | 0.9     | 1.8    | 1.8    | 1.8    | 2.7    | 3.6    | 3.6    | 4.6    |
| 87.5° | 0.0     | 0.0     | 0.9     | 0.9     | 1.8    | 1.8    | 1.8    | 2.7    | 2.7    | 3.6    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 |
| 2.5°  | 1597.6 | 1565.1 | 1517.1 | 1485.5 | 1454.8 | 1425.8 | 1378.0 | 1350.8 | 1302.1 | 1257.0 | 1218.1 |
| 5°    | 1928.3 | 1846.9 | 1748.5 | 1664.4 | 1610.2 | 1556.9 | 1460.2 | 1388.8 | 1299.4 | 1219.0 | 1144.9 |
| 7.5°  | 2262.6 | 2119.0 | 1957.2 | 1819.0 | 1735.0 | 1652.7 | 1508.1 | 1392.4 | 1265.9 | 1151.2 | 1041.8 |
| 10°   | 2566.2 | 2350.3 | 2121.6 | 1923.7 | 1809.9 | 1703.3 | 1512.7 | 1359.0 | 1196.4 | 1054.6 | 917.2  |
| 12.5° | 2848.2 | 2552.7 | 2254.5 | 1996.0 | 1855.1 | 1726.8 | 1493.7 | 1305.7 | 1112.3 | 944.3  | 784.3  |
| 15°   | 3099.3 | 2719.9 | 2351.2 | 2037.6 | 1872.3 | 1720.4 | 1449.4 | 1230.7 | 1013.0 | 825.0  | 622.6  |
| 17.5° | 3290.0 | 2823.7 | 2393.7 | 2031.2 | 1841.6 | 1672.6 | 1373.4 | 1136.7 | 907.3  | 679.5  | 450.8  |
| 20°   | 3405.7 | 2868.1 | 2384.6 | 1982.5 | 1775.5 | 1596.7 | 1283.1 | 1034.7 | 779.9  | 522.3  | 397.5  |
| 22.5° | 3454.5 | 2864.4 | 2342.1 | 1909.3 | 1694.3 | 1513.6 | 1196.4 | 935.2  | 646.1  | 472.6  | 414.7  |
| 25°   | 3462.6 | 2827.4 | 2282.5 | 1828.8 | 1613.8 | 1434.0 | 1108.8 | 822.2  | 561.1  | 486.2  | 464.5  |
| 27.5° | 3400.3 | 2740.7 | 2170.5 | 1713.3 | 1500.9 | 1314.7 | 977.7  | 653.2  | 526.8  | 484.4  | 498.8  |
| 30°   | 3215.9 | 2542.8 | 1972.6 | 1510.0 | 1304.8 | 1118.6 | 698.5  | 512.3  | 437.3  | 440.0  | 443.7  |
| 32.5° | 2891.6 | 2213.8 | 1654.5 | 1212.6 | 988.5  | 737.4  | 434.6  | 342.4  | 332.5  | 332.5  | 330.7  |
| 35°   | 2458.7 | 1811.7 | 1298.4 | 767.1  | 491.5  | 354.2  | 225.0  | 225.9  | 221.4  | 220.5  | 219.6  |
| 37.5° | 2011.4 | 1429.5 | 822.2  | 317.2  | 213.2  | 148.2  | 132.9  | 134.7  | 132.9  | 135.6  | 133.8  |
| 40°   | 1585.9 | 882.8  | 300.0  | 101.1  | 75.0   | 72.3   | 74.1   | 75.9   | 75.9   | 77.7   | 77.7   |
| 42.5° | 921.7  | 292.8  | 78.6   | 40.7   | 40.7   | 38.9   | 39.8   | 41.6   | 42.5   | 43.4   | 42.5   |
| 45°   | 273.8  | 60.6   | 25.4   | 22.6   | 22.6   | 21.7   | 21.7   | 22.6   | 23.5   | 24.4   | 24.4   |
| 47.5° | 43.4   | 17.2   | 14.4   | 12.6   | 12.6   | 12.6   | 12.6   | 12.6   | 13.5   | 13.5   | 14.4   |
| 50°   | 13.5   | 10.8   | 9.1    | 8.2    | 8.2    | 7.3    | 7.3    | 8.2    | 8.2    | 8.2    | 9.1    |
| 52.5° | 8.2    | 6.4    | 6.4    | 5.5    | 6.4    | 6.4    | 5.5    | 6.4    | 6.4    | 6.4    | 7.3    |
| 55°   | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    |
| 57.5° | 4.6    | 4.6    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 60°   | 4.6    | 4.6    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.4    |
| 62.5° | 4.6    | 4.6    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    |
| 65°   | 4.6    | 4.6    | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    |
| 67.5° | 4.6    | 5.5    | 5.5    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    |
| 70°   | 4.6    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    |
| 72.5° | 4.6    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    |
| 75°   | 5.5    | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 7.3    |
| 77.5° | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    |
| 80°   | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    | 7.3    |
| 82.5° | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    | 7.3    |
| 85°   | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    | 7.3    |
| 87.5° | 5.5    | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 7.3    | 7.3    | 7.3    | 7.3    |
| 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°    | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 |
| 2.5°  | 1184.6 | 1143.1 | 1123.2 | 1095.1 | 1075.2 | 1031.0 | 1013.0 | 982.3  | 956.9  | 915.3  | 918.1  |
| 5°    | 1081.6 | 1003.0 | 949.6  | 908.2  | 879.2  | 808.7  | 761.8  | 712.0  | 666.9  | 610.9  | 590.1  |
| 7.5°  | 938.9  | 842.1  | 760.9  | 711.1  | 674.1  | 580.1  | 476.2  | 394.8  | 333.4  | 289.1  | 272.0  |
| 10°   | 796.1  | 670.4  | 541.3  | 464.5  | 411.2  | 320.8  | 274.7  | 253.0  | 233.1  | 208.8  | 192.5  |
| 12.5° | 629.8  | 450.8  | 333.4  | 302.8  | 281.1  | 251.2  | 221.4  | 197.9  | 202.4  | 203.3  | 209.7  |
| 15°   | 430.2  | 324.4  | 287.3  | 266.5  | 243.1  | 225.9  | 235.8  | 242.2  | 253.9  | 254.8  | 263.0  |
| 17.5° | 349.7  | 304.5  | 274.7  | 273.8  | 275.6  | 285.5  | 301.0  | 309.0  | 324.4  | 328.0  | 339.7  |
| 20°   | 349.7  | 323.4  | 348.8  | 348.8  | 353.3  | 366.9  | 386.8  | 398.4  | 415.6  | 422.0  | 436.4  |
| 22.5° | 398.4  | 416.5  | 448.2  | 451.8  | 453.6  | 468.1  | 493.4  | 505.0  | 524.9  | 528.6  | 543.9  |
| 25°   | 486.2  | 502.4  | 531.3  | 534.0  | 535.0  | 545.7  | 564.7  | 571.1  | 584.6  | 577.5  | 586.4  |
| 27.5° | 514.2  | 521.4  | 539.5  | 541.3  | 536.8  | 541.3  | 548.5  | 548.5  | 553.0  | 538.6  | 541.3  |
| 30°   | 451.8  | 453.6  | 462.7  | 463.6  | 453.6  | 455.4  | 456.3  | 455.4  | 454.5  | 439.1  | 439.1  |
| 32.5° | 335.3  | 335.3  | 347.0  | 344.2  | 333.4  | 336.2  | 336.2  | 336.2  | 335.3  | 322.5  | 320.8  |
| 35°   | 222.3  | 223.2  | 233.1  | 231.3  | 223.2  | 225.0  | 225.0  | 227.8  | 225.0  | 217.8  | 215.9  |
| 37.5° | 135.6  | 136.5  | 140.9  | 141.8  | 139.1  | 140.0  | 140.9  | 140.0  | 141.8  | 138.2  | 136.5  |
| 40°   | 78.6   | 80.5   | 84.0   | 84.9   | 84.0   | 84.0   | 84.9   | 85.8   | 89.4   | 84.9   | 83.1   |
| 42.5° | 46.0   | 46.9   | 48.8   | 48.8   | 48.8   | 48.8   | 49.7   | 50.6   | 51.5   | 50.6   | 49.7   |
| 45°   | 26.3   | 27.2   | 28.0   | 28.0   | 28.9   | 28.0   | 28.9   | 28.9   | 29.8   | 28.9   | 28.9   |
| 47.5° | 15.3   | 15.3   | 16.2   | 16.2   | 17.2   | 16.2   | 17.2   | 17.2   | 17.2   | 16.2   | 16.2   |
| 50°   | 9.1    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    | 9.1    | 9.1    |
| 52.5° | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 6.4    | 6.4    | 6.4    | 6.4    | 5.5    | 5.5    |
| 55°   | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 5.5    | 4.6    | 4.6    | 3.6    | 3.6    |
| 57.5° | 5.5    | 6.4    | 6.4    | 6.4    | 6.4    | 5.5    | 5.5    | 4.6    | 3.6    | 2.7    | 2.7    |
| 60°   | 6.4    | 6.4    | 6.4    | 6.4    | 5.5    | 5.5    | 5.5    | 4.6    | 3.6    | 2.7    | 2.7    |
| 62.5° | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 5.5    | 5.5    | 4.6    | 3.6    | 2.7    | 2.7    |
| 65°   | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 5.5    | 5.5    | 4.6    | 3.6    | 2.7    | 2.7    |
| 67.5° | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 5.5    | 5.5    | 4.6    | 3.6    | 3.6    | 2.7    |
| 70°   | 6.4    | 7.3    | 7.3    | 6.4    | 6.4    | 6.4    | 5.5    | 4.6    | 4.6    | 3.6    | 2.7    |
| 72.5° | 6.4    | 7.3    | 7.3    | 6.4    | 6.4    | 6.4    | 5.5    | 4.6    | 4.6    | 3.6    | 2.7    |
| 75°   | 7.3    | 7.3    | 7.3    | 7.3    | 6.4    | 6.4    | 5.5    | 5.5    | 4.6    | 3.6    | 2.7    |
| 77.5° | 7.3    | 7.3    | 7.3    | 7.3    | 6.4    | 6.4    | 5.5    | 5.5    | 4.6    | 3.6    | 2.7    |
| 80°   | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 6.4    | 6.4    | 5.5    | 4.6    | 3.6    | 3.6    |
| 82.5° | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 6.4    | 6.4    | 5.5    | 4.6    | 3.6    | 3.6    |
| 85°   | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 6.4    | 6.4    | 5.5    | 4.6    | 3.6    | 2.7    |
| 87.5° | 7.3    | 7.3    | 7.3    | 7.3    | 6.4    | 6.4    | 5.5    | 5.5    | 4.6    | 3.6    | 2.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1212686

CATALOG NUMBER: LDSQA6A70927D010TE LARH20SP 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 |
| 2.5°  | 884.6  | 863.8  | 854.8  | 869.3  | 862.0  | 840.3  | 844.9  | 831.4  |
| 5°    | 527.7  | 496.1  | 476.2  | 485.3  | 456.3  | 430.2  | 430.2  | 411.2  |
| 7.5°  | 254.8  | 244.9  | 239.5  | 241.3  | 234.9  | 226.8  | 222.3  | 222.3  |
| 10°   | 178.9  | 175.2  | 176.2  | 176.2  | 181.6  | 180.7  | 183.4  | 182.5  |
| 12.5° | 212.3  | 214.1  | 215.0  | 218.7  | 223.2  | 223.2  | 225.9  | 224.1  |
| 15°   | 272.0  | 270.1  | 275.6  | 276.5  | 283.8  | 284.6  | 288.2  | 284.6  |
| 17.5° | 346.1  | 349.7  | 355.2  | 354.2  | 368.7  | 369.6  | 369.6  | 368.7  |
| 20°   | 445.5  | 448.2  | 453.6  | 455.4  | 472.6  | 474.4  | 480.7  | 481.6  |
| 22.5° | 553.9  | 553.9  | 556.7  | 560.2  | 576.6  | 577.5  | 580.1  | 580.1  |
| 25°   | 591.0  | 585.5  | 586.4  | 591.0  | 600.0  | 596.4  | 599.0  | 597.2  |
| 27.5° | 543.0  | 535.0  | 533.1  | 539.5  | 545.7  | 535.9  | 539.5  | 539.5  |
| 30°   | 441.0  | 433.7  | 431.9  | 438.2  | 442.8  | 431.9  | 435.5  | 437.3  |
| 32.5° | 322.5  | 318.1  | 317.2  | 321.6  | 325.3  | 316.3  | 319.9  | 322.5  |
| 35°   | 217.8  | 215.9  | 214.1  | 215.0  | 220.5  | 213.2  | 216.8  | 218.7  |
| 37.5° | 138.2  | 134.7  | 135.6  | 137.4  | 140.9  | 136.5  | 140.0  | 140.0  |
| 40°   | 84.9   | 83.1   | 83.1   | 84.9   | 86.7   | 83.1   | 84.9   | 85.8   |
| 42.5° | 49.7   | 49.7   | 49.7   | 50.6   | 51.5   | 49.7   | 49.7   | 50.6   |
| 45°   | 28.9   | 28.0   | 28.0   | 28.9   | 29.8   | 28.0   | 28.9   | 28.9   |
| 47.5° | 16.2   | 15.3   | 15.3   | 16.2   | 16.2   | 15.3   | 16.2   | 16.2   |
| 50°   | 9.1    | 8.2    | 8.2    | 9.1    | 9.1    | 8.2    | 8.2    | 8.2    |
| 52.5° | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    | 3.6    | 3.6    |
| 55°   | 2.7    | 2.7    | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    | 0.9    |
| 57.5° | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    |
| 60°   | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    |
| 62.5° | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    |
| 65°   | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    |
| 67.5° | 1.8    | 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    | 0.9    | 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    | 1.8    | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.0    |
| 80°   | 2.7    | 1.8    | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.9    |
| 82.5° | 2.7    | 1.8    | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.9    |
| 85°   | 2.7    | 1.8    | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.0    |
| 87.5° | 2.7    | 1.8    | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 0.0    |
| 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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Peachtree City, GA 30269

Scaled Data Report



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1121 Highway 74 South

Peachtree City, GA 30269



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

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