

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: P1212708

Luminaire Tested: **LDSQA6A70940D010TE LARH40FL 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: P1212708  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26688)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA6A70940D010TE LARH40FL 6LSQA1H 30°  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 40° FLOOD, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

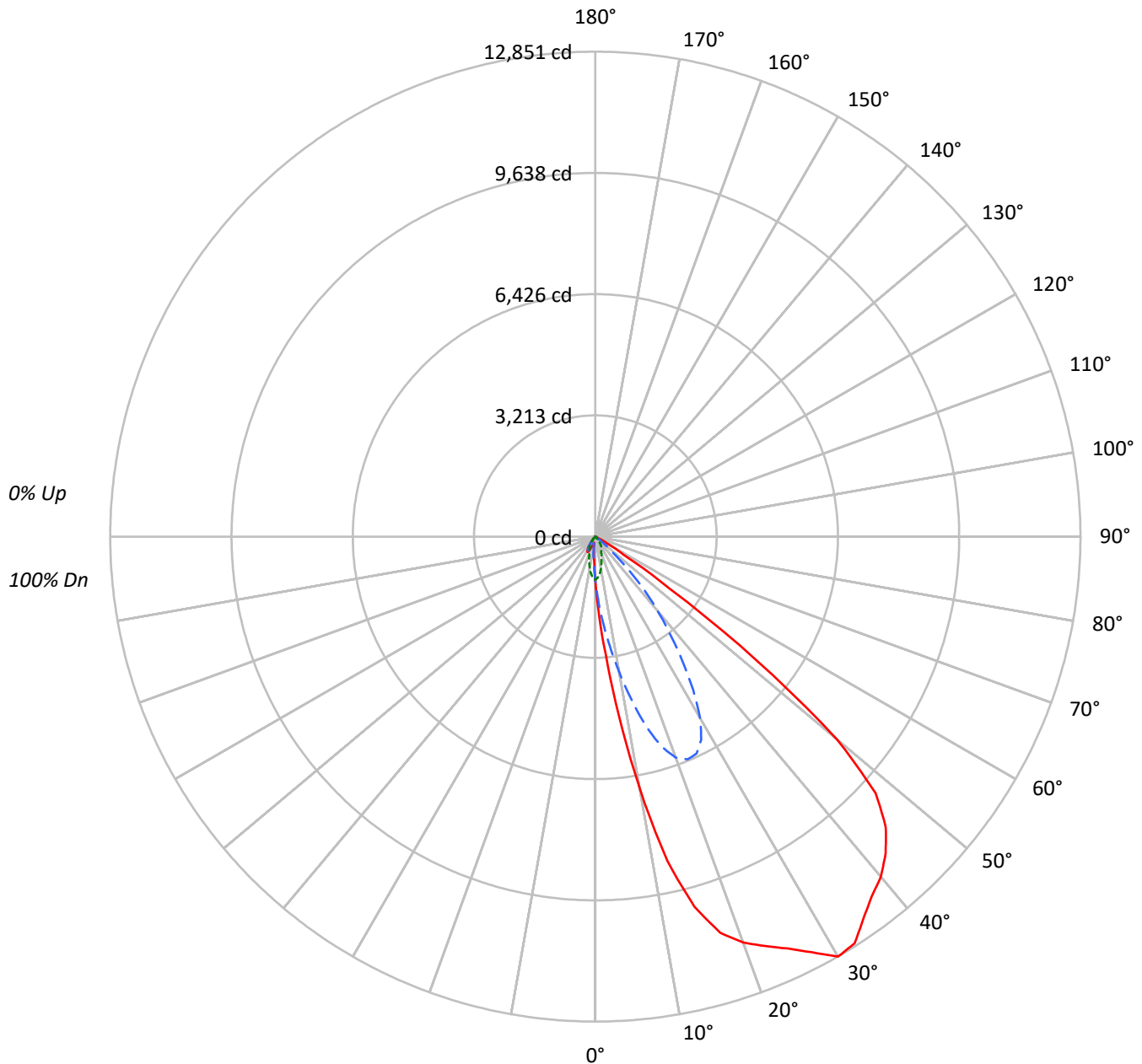
Lumens per Lamp: N/A  
Luminaire Lumens: 6106.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 2.63 / 0.54 / 1.37  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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: P1212708

CATALOG NUMBER: LDSQA6A70940D010TE LARH40FL 6LSQA1H 30°

### 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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98  |  | 99  | 97  | 95  |  | 95  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  |  | 91  | 88  | 85  |  | 88  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 86  | 81  | 77  |  | 83  | 79  | 76  |  | 81  |
| 4   | 91  | 82  | 75  | 70  | 89  | 80  | 74  | 69  | 78  | 73  | 68  |  | 76  | 71  | 67  |  | 74  |
| 5   | 85  | 74  | 67  | 62  | 83  | 73  | 66  | 61  | 71  | 65  | 61  |  | 70  | 64  | 60  |  | 68  |
| 6   | 79  | 68  | 60  | 55  | 77  | 67  | 60  | 55  | 65  | 59  | 54  |  | 64  | 58  | 54  |  | 62  |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  |  | 59  | 53  | 49  |  | 57  |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  |  | 54  | 48  | 44  |  | 53  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  |  | 50  | 44  | 40  |  | 49  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 41  | 36  |  | 46  | 40  | 36  |  | 45  |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 49273  | 49273 | 49273 |
| 5°  | 135240 | 45398 | 18524 |
| 10° | 296359 | 37153 | 7061  |
| 15° | 452685 | 28283 | 8282  |
| 20° | 524480 | 21040 | 12866 |
| 25° | 572137 | 17307 | 20765 |
| 30° | 638900 | 15690 | 21204 |
| 35° | 650046 | 10765 | 14538 |
| 40° | 661467 | 5098  | 7357  |
| 45° | 662543 | 2119  | 3215  |
| 50° | 560116 | 924   | 991   |
| 55° | 180367 | 638   | 158   |
| 60° | 35822  | 732   | 0     |
| 65° | 3657   | 866   | 0     |
| 70° | 390    | 1196  | 0     |
| 75° | 0      | 1580  | 0     |
| 80° | 0      | 2603  | 248   |
| 85° | 0      | 5187  | 494   |

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 155.3  | 2.5       |
| 10°-20°   | 803.4  | 13.2      |
| 20°-30°   | 1538.3 | 25.2      |
| 30°-40°   | 1812.4 | 29.7      |
| 40°-50°   | 1423.6 | 23.3      |
| 50°-60°   | 346.9  | 5.7       |
| 60°-70°   | 14.9   | 0.2       |
| 70°-80°   | 5.6    | 0.1       |
| 80°-90°   | 5.6    | 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°    | 2497.1 | 40.9      |
| 0°-40°    | 4309.5 | 70.6      |
| 0°-60°    | 6079.9 | 99.6      |
| 0°-90°    | 6106.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6106.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90°  | 135° | 180° | Flux |
|-----|-------|------|------|------|------|------|
| 0°  | 1144  | 1144 | 1144 | 1144 | 1144 |      |
| 5°  | 3129  | 2264 | 1050 | 550  | 429  | 414  |
| 15° | 10156 | 5216 | 634  | 182  | 186  | 2835 |
| 25° | 12043 | 6343 | 364  | 381  | 437  | 5613 |
| 35° | 12367 | 4010 | 205  | 264  | 277  | 7755 |
| 45° | 10881 | 1239 | 35   | 49   | 53   | 8175 |
| 55° | 2403  | 45   | 8    | 5    | 2    | 2860 |
| 65° | 36    | 5    | 8    | 5    | 0    | 95   |
| 75° | 0     | 5    | 10   | 6    | 0    | 0    |
| 85° | 0     | 6    | 10   | 6    | 1    | 0    |
| 90° | 0     | 0    | 0    | 0    | 0    |      |

TEST NUMBER: P1212708

CATALOG NUMBER: LDSQA6A70940D010TE LARH40FL 6LSQA1H 30°

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 22.5°   | 25°     | 30°     | 35°    | 40°    | 45°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 1144.4  | 1144.4  | 1144.4  | 1144.4  | 1144.4  | 1144.4  | 1144.4  | 1144.4  | 1144.4 | 1144.4 | 1144.4 |
| 2.5°  | 1961.4  | 1957.3  | 1928.7  | 1955.1  | 1874.9  | 1871.7  | 1835.9  | 1820.0  | 1773.6 | 1729.3 | 1665.8 |
| 5°    | 3129.1  | 3060.5  | 3004.4  | 3006.6  | 2852.5  | 2824.0  | 2743.8  | 2662.4  | 2537.9 | 2421.8 | 2264.5 |
| 7.5°  | 4769.6  | 4688.3  | 4570.0  | 4520.5  | 4225.9  | 4139.3  | 3973.6  | 3757.1  | 3485.8 | 3215.7 | 2924.2 |
| 10°   | 6778.6  | 6791.2  | 6638.2  | 6496.8  | 6051.2  | 5876.0  | 5607.8  | 5181.3  | 4667.1 | 4159.4 | 3643.1 |
| 12.5° | 8800.2  | 8791.8  | 8609.1  | 8394.9  | 7845.9  | 7598.9  | 7242.0  | 6710.0  | 6029.0 | 5241.5 | 4433.9 |
| 15°   | 10155.7 | 10215.9 | 10138.8 | 9967.8  | 9499.1  | 9216.1  | 8813.9  | 8091.8  | 7262.1 | 6305.7 | 5216.1 |
| 17.5° | 11006.6 | 11063.6 | 11036.2 | 10902.1 | 10488.3 | 10186.3 | 9850.6  | 9259.4  | 8299.8 | 7097.4 | 5832.7 |
| 20°   | 11446.8 | 11536.6 | 11523.8 | 11378.2 | 11065.7 | 10815.5 | 10445.0 | 9897.0  | 9066.2 | 7647.4 | 6231.7 |
| 22.5° | 11740.3 | 11808.9 | 11827.9 | 11663.2 | 11340.2 | 11102.6 | 10831.3 | 10276.1 | 9494.8 | 7983.2 | 6390.0 |
| 25°   | 12043.3 | 12164.8 | 12045.4 | 11842.7 | 11546.1 | 11318.1 | 11028.8 | 10496.7 | 9699.7 | 8120.3 | 6342.6 |
| 27.5° | 12414.9 | 12473.0 | 12202.7 | 12018.0 | 11688.6 | 11441.6 | 11134.4 | 10624.4 | 9735.6 | 8010.6 | 6071.3 |
| 30°   | 12850.9 | 12610.1 | 12421.2 | 12054.9 | 11681.2 | 11440.5 | 11128.0 | 10544.2 | 9546.6 | 7646.3 | 5545.5 |
| 32.5° | 12779.1 | 12558.5 | 12344.2 | 11956.8 | 11587.2 | 11348.6 | 11000.2 | 10277.2 | 9100.0 | 7037.2 | 4820.3 |
| 35°   | 12367.4 | 12414.9 | 12183.7 | 11862.8 | 11444.7 | 11198.7 | 10818.7 | 9897.0  | 8342.1 | 6196.8 | 4009.5 |
| 37.5° | 12020.1 | 12124.6 | 11973.6 | 11677.0 | 11252.5 | 10920.0 | 10407.0 | 9286.9  | 7352.8 | 5130.6 | 3240.9 |
| 40°   | 11768.8 | 11802.6 | 11721.3 | 11388.8 | 10878.9 | 10398.6 | 9805.2  | 8191.0  | 6151.5 | 4027.4 | 2557.9 |
| 42.5° | 11379.3 | 11469.0 | 11325.5 | 10962.2 | 10189.5 | 9645.9  | 8786.4  | 6925.4  | 4778.0 | 3076.3 | 1925.6 |
| 45°   | 10881.0 | 10966.5 | 10789.1 | 10185.2 | 9110.5  | 8313.5  | 7265.2  | 5399.8  | 3534.4 | 2267.6 | 1239.4 |
| 47.5° | 10068.1 | 10120.9 | 9777.8  | 8942.7  | 7380.4  | 6629.7  | 5555.0  | 3764.5  | 2277.1 | 1267.9 | 602.8  |
| 50°   | 8362.1  | 8336.8  | 7629.4  | 6602.3  | 4936.4  | 4148.8  | 3306.4  | 2040.6  | 1023.0 | 600.7  | 376.9  |
| 52.5° | 5389.3  | 5331.2  | 4631.2  | 3697.1  | 2499.9  | 1907.6  | 1433.6  | 880.5   | 533.1  | 335.7  | 148.8  |
| 55°   | 2402.8  | 2380.6  | 1948.8  | 1513.9  | 1023.0  | 880.5   | 672.5   | 431.7   | 283.9  | 117.1  | 45.4   |
| 57.5° | 891.0   | 871.0   | 767.5   | 644.0   | 494.0   | 410.7   | 326.2   | 207.0   | 72.8   | 39.0   | 24.3   |
| 60°   | 416.0   | 414.8   | 365.3   | 300.8   | 209.0   | 158.3   | 91.8    | 48.6    | 30.6   | 21.1   | 13.8   |
| 62.5° | 133.0   | 129.9   | 90.7    | 66.6    | 47.4    | 41.2    | 32.8    | 24.3    | 15.9   | 11.6   | 8.5    |
| 65°   | 35.9    | 35.9    | 32.8    | 27.4    | 22.2    | 19.0    | 15.9    | 11.6    | 7.4    | 6.4    | 5.3    |
| 67.5° | 13.8    | 13.8    | 12.6    | 11.6    | 8.5     | 7.4     | 6.4     | 5.3     | 4.2    | 5.3    | 5.3    |
| 70°   | 3.1     | 3.1     | 3.1     | 3.1     | 3.1     | 3.1     | 3.1     | 3.1     | 4.2    | 4.2    | 5.3    |
| 72.5° | 0.0     | 0.0     | 1.0     | 1.0     | 2.1     | 2.1     | 3.1     | 3.1     | 4.2    | 5.3    | 5.3    |
| 75°   | 0.0     | 0.0     | 1.0     | 1.0     | 2.1     | 2.1     | 3.1     | 3.1     | 4.2    | 5.3    | 5.3    |
| 77.5° | 0.0     | 0.0     | 1.0     | 1.0     | 2.1     | 2.1     | 3.1     | 3.1     | 4.2    | 5.3    | 5.3    |
| 80°   | 0.0     | 0.0     | 1.0     | 1.0     | 2.1     | 2.1     | 3.1     | 3.1     | 4.2    | 5.3    | 5.3    |
| 82.5° | 0.0     | 0.0     | 1.0     | 2.1     | 2.1     | 2.1     | 3.1     | 4.2     | 4.2    | 5.3    | 6.4    |
| 85°   | 0.0     | 0.0     | 1.0     | 2.1     | 2.1     | 3.1     | 3.1     | 4.2     | 4.2    | 5.3    | 6.4    |
| 87.5° | 0.0     | 0.0     | 1.0     | 2.1     | 2.1     | 3.1     | 3.1     | 4.2     | 4.2    | 5.3    | 6.4    |
| 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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CATALOG NUMBER: LDSQA6A70940D010TE LARH40FL 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 |
| 2.5°  | 1619.4 | 1549.7 | 1453.7 | 1397.8 | 1384.0 | 1354.5 | 1302.7 | 1225.6 | 1162.3 | 1101.1 | 1065.2 |
| 5°    | 2131.5 | 1966.8 | 1782.0 | 1652.2 | 1599.4 | 1528.7 | 1403.0 | 1273.2 | 1153.9 | 1050.4 | 969.2  |
| 7.5°  | 2674.1 | 2402.8 | 2103.9 | 1863.3 | 1776.7 | 1664.8 | 1460.0 | 1266.9 | 1103.2 | 959.7  | 850.8  |
| 10°   | 3213.5 | 2776.4 | 2371.1 | 2022.7 | 1881.2 | 1729.3 | 1459.0 | 1208.7 | 1016.6 | 849.8  | 729.4  |
| 12.5° | 3753.0 | 3124.8 | 2567.4 | 2118.7 | 1935.0 | 1742.9 | 1415.7 | 1120.1 | 906.9  | 736.8  | 621.8  |
| 15°   | 4251.3 | 3402.5 | 2700.5 | 2151.5 | 1929.8 | 1702.9 | 1328.1 | 1012.4 | 791.8  | 634.5  | 527.8  |
| 17.5° | 4622.8 | 3548.2 | 2731.0 | 2101.8 | 1846.4 | 1595.1 | 1193.9 | 885.7  | 682.0  | 543.7  | 435.0  |
| 20°   | 4805.4 | 3571.4 | 2658.2 | 1960.4 | 1702.9 | 1442.1 | 1047.3 | 764.3  | 588.0  | 459.2  | 367.4  |
| 22.5° | 4805.4 | 3461.6 | 2499.9 | 1783.1 | 1523.3 | 1265.8 | 905.8  | 664.0  | 514.2  | 400.1  | 323.0  |
| 25°   | 4622.8 | 3243.1 | 2287.6 | 1578.2 | 1326.0 | 1091.6 | 783.4  | 589.0  | 457.1  | 364.3  | 299.8  |
| 27.5° | 4268.2 | 2941.1 | 2015.3 | 1350.2 | 1131.6 | 936.4  | 686.1  | 520.4  | 413.8  | 328.4  | 329.4  |
| 30°   | 3780.4 | 2570.6 | 1702.9 | 1109.6 | 932.2  | 769.6  | 577.5  | 436.0  | 331.5  | 315.6  | 325.1  |
| 32.5° | 3216.7 | 2127.2 | 1349.1 | 860.3  | 722.2  | 605.9  | 439.1  | 308.2  | 263.9  | 266.0  | 276.6  |
| 35°   | 2638.2 | 1674.3 | 1015.6 | 637.6  | 537.3  | 439.1  | 288.2  | 202.7  | 200.6  | 204.8  | 212.2  |
| 37.5° | 2082.9 | 1253.1 | 734.8  | 466.6  | 361.0  | 270.3  | 155.2  | 139.4  | 139.4  | 143.5  | 147.8  |
| 40°   | 1560.3 | 888.9  | 505.7  | 276.6  | 175.2  | 123.5  | 98.2   | 90.7   | 89.7   | 90.7   | 96.1   |
| 42.5° | 1071.5 | 562.6  | 300.8  | 110.9  | 84.5   | 71.8   | 62.3   | 57.1   | 55.9   | 57.1   | 60.2   |
| 45°   | 601.8  | 346.3  | 117.1  | 59.2   | 50.7   | 45.4   | 39.0   | 35.9   | 34.8   | 34.8   | 36.9   |
| 47.5° | 376.9  | 137.3  | 52.8   | 36.9   | 31.7   | 29.5   | 25.4   | 23.3   | 22.2   | 22.2   | 23.3   |
| 50°   | 144.7  | 53.8   | 32.8   | 24.3   | 21.1   | 19.0   | 16.9   | 14.8   | 13.8   | 13.8   | 14.8   |
| 52.5° | 49.7   | 31.7   | 21.1   | 15.9   | 13.8   | 12.6   | 10.5   | 9.5    | 9.5    | 9.5    | 9.5    |
| 55°   | 27.4   | 19.0   | 12.6   | 9.5    | 8.5    | 8.5    | 8.5    | 8.5    | 8.5    | 8.5    | 8.5    |
| 57.5° | 16.9   | 11.6   | 8.5    | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    | 8.5    | 8.5    |
| 60°   | 9.5    | 7.4    | 6.4    | 6.4    | 6.4    | 6.4    | 7.4    | 7.4    | 7.4    | 8.5    | 8.5    |
| 62.5° | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 7.4    | 7.4    | 8.5    | 8.5    | 8.5    |
| 65°   | 5.3    | 5.3    | 5.3    | 6.4    | 6.4    | 6.4    | 7.4    | 7.4    | 8.5    | 8.5    | 8.5    |
| 67.5° | 5.3    | 5.3    | 6.4    | 6.4    | 6.4    | 7.4    | 7.4    | 8.5    | 8.5    | 8.5    | 8.5    |
| 70°   | 5.3    | 6.4    | 6.4    | 7.4    | 7.4    | 7.4    | 8.5    | 8.5    | 8.5    | 9.5    | 9.5    |
| 72.5° | 5.3    | 6.4    | 6.4    | 7.4    | 7.4    | 7.4    | 8.5    | 8.5    | 9.5    | 9.5    | 9.5    |
| 75°   | 6.4    | 6.4    | 6.4    | 7.4    | 7.4    | 7.4    | 8.5    | 9.5    | 9.5    | 9.5    | 9.5    |
| 77.5° | 6.4    | 6.4    | 7.4    | 7.4    | 7.4    | 8.5    | 8.5    | 9.5    | 9.5    | 9.5    | 9.5    |
| 80°   | 6.4    | 6.4    | 7.4    | 7.4    | 8.5    | 8.5    | 9.5    | 9.5    | 9.5    | 10.5   | 10.5   |
| 82.5° | 6.4    | 6.4    | 7.4    | 8.5    | 8.5    | 8.5    | 9.5    | 9.5    | 10.5   | 10.5   | 10.5   |
| 85°   | 6.4    | 7.4    | 7.4    | 8.5    | 8.5    | 8.5    | 9.5    | 9.5    | 10.5   | 10.5   | 10.5   |
| 87.5° | 6.4    | 7.4    | 7.4    | 8.5    | 8.5    | 8.5    | 9.5    | 9.5    | 10.5   | 10.5   | 10.5   |
| 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

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Peachtree City, GA 30269



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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 |
| 2.5°  | 1017.6 | 973.3  | 929.0  | 896.2  | 880.5  | 864.6  | 829.8  | 784.4  | 765.3  | 737.9  | 722.2  |
| 5°    | 886.7  | 811.8  | 752.7  | 713.7  | 690.4  | 659.8  | 619.7  | 575.4  | 550.0  | 521.6  | 502.4  |
| 7.5°  | 751.7  | 664.0  | 607.0  | 571.1  | 548.0  | 509.9  | 459.2  | 406.4  | 375.8  | 344.1  | 322.0  |
| 10°   | 633.4  | 550.0  | 485.7  | 444.5  | 414.8  | 370.5  | 319.9  | 282.9  | 256.5  | 229.1  | 207.0  |
| 12.5° | 528.8  | 439.1  | 370.5  | 335.7  | 315.6  | 273.4  | 231.1  | 190.1  | 174.2  | 168.9  | 168.9  |
| 15°   | 428.6  | 347.4  | 289.2  | 259.7  | 238.6  | 193.2  | 184.7  | 182.6  | 181.6  | 180.6  | 182.6  |
| 17.5° | 349.4  | 280.8  | 219.6  | 204.8  | 202.7  | 201.6  | 202.7  | 202.7  | 203.7  | 207.0  | 212.2  |
| 20°   | 293.5  | 230.1  | 225.9  | 227.0  | 227.0  | 231.1  | 236.5  | 240.8  | 244.9  | 250.2  | 259.7  |
| 22.5° | 260.8  | 259.7  | 267.2  | 268.2  | 273.4  | 279.8  | 289.2  | 295.6  | 306.2  | 311.5  | 325.1  |
| 25°   | 300.8  | 308.2  | 322.0  | 326.2  | 334.6  | 345.2  | 360.0  | 368.4  | 381.2  | 387.4  | 403.3  |
| 27.5° | 341.0  | 352.6  | 369.5  | 374.8  | 382.2  | 399.1  | 409.6  | 417.0  | 423.3  | 427.6  | 437.1  |
| 30°   | 337.9  | 348.4  | 365.3  | 366.3  | 376.9  | 388.4  | 394.8  | 401.2  | 405.3  | 404.3  | 409.6  |
| 32.5° | 286.1  | 295.6  | 311.5  | 311.5  | 323.0  | 332.5  | 335.7  | 341.0  | 341.0  | 341.0  | 343.1  |
| 35°   | 219.6  | 225.9  | 236.5  | 239.6  | 249.1  | 255.4  | 257.5  | 263.9  | 263.9  | 261.8  | 261.8  |
| 37.5° | 152.0  | 160.4  | 167.8  | 169.9  | 176.3  | 180.6  | 185.8  | 186.8  | 184.7  | 185.8  | 185.8  |
| 40°   | 99.2   | 104.5  | 109.8  | 110.9  | 116.1  | 119.3  | 124.5  | 124.5  | 125.6  | 124.5  | 126.6  |
| 42.5° | 61.2   | 65.4   | 68.6   | 70.7   | 72.8   | 75.0   | 78.1   | 79.2   | 80.2   | 79.2   | 81.2   |
| 45°   | 38.0   | 40.2   | 42.2   | 43.3   | 44.3   | 45.4   | 48.6   | 48.6   | 48.6   | 48.6   | 49.7   |
| 47.5° | 23.3   | 24.3   | 25.4   | 25.4   | 26.4   | 27.4   | 28.5   | 28.5   | 28.5   | 28.5   | 29.5   |
| 50°   | 13.8   | 14.8   | 14.8   | 14.8   | 15.9   | 15.9   | 16.9   | 16.9   | 16.9   | 15.9   | 16.9   |
| 52.5° | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 8.5    | 9.5    |
| 55°   | 8.5    | 8.5    | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    | 6.4    | 5.3    | 5.3    | 4.2    |
| 57.5° | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    | 6.4    | 6.4    | 5.3    | 5.3    | 4.2    | 3.1    |
| 60°   | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    | 6.4    | 6.4    | 5.3    | 4.2    | 4.2    | 3.1    |
| 62.5° | 8.5    | 7.4    | 7.4    | 7.4    | 7.4    | 6.4    | 6.4    | 5.3    | 4.2    | 4.2    | 3.1    |
| 65°   | 8.5    | 8.5    | 7.4    | 7.4    | 7.4    | 6.4    | 6.4    | 5.3    | 5.3    | 4.2    | 3.1    |
| 67.5° | 8.5    | 8.5    | 8.5    | 7.4    | 8.5    | 7.4    | 6.4    | 6.4    | 5.3    | 4.2    | 4.2    |
| 70°   | 9.5    | 8.5    | 8.5    | 8.5    | 8.5    | 7.4    | 7.4    | 6.4    | 5.3    | 4.2    | 4.2    |
| 72.5° | 9.5    | 9.5    | 8.5    | 8.5    | 8.5    | 7.4    | 7.4    | 6.4    | 5.3    | 5.3    | 4.2    |
| 75°   | 9.5    | 9.5    | 8.5    | 8.5    | 8.5    | 7.4    | 7.4    | 6.4    | 6.4    | 5.3    | 4.2    |
| 77.5° | 9.5    | 9.5    | 9.5    | 8.5    | 8.5    | 8.5    | 7.4    | 7.4    | 6.4    | 5.3    | 4.2    |
| 80°   | 9.5    | 9.5    | 9.5    | 9.5    | 9.5    | 8.5    | 8.5    | 7.4    | 6.4    | 5.3    | 4.2    |
| 82.5° | 10.5   | 9.5    | 9.5    | 9.5    | 9.5    | 8.5    | 8.5    | 7.4    | 6.4    | 5.3    | 5.3    |
| 85°   | 10.5   | 10.5   | 9.5    | 9.5    | 9.5    | 8.5    | 8.5    | 7.4    | 6.4    | 6.4    | 5.3    |
| 87.5° | 10.5   | 9.5    | 9.5    | 9.5    | 9.5    | 8.5    | 8.5    | 7.4    | 6.4    | 5.3    | 5.3    |
| 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



TEST NUMBER: P1212708

CATALOG NUMBER: LDSQA6A70940D010TE LARH40FL 6LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 | 1144.4 |
| 2.5°  | 706.3  | 697.8  | 697.8  | 683.0  | 680.9  | 669.4  | 678.9  | 672.5  |
| 5°    | 481.4  | 467.6  | 463.4  | 448.6  | 443.4  | 429.6  | 433.9  | 428.6  |
| 7.5°  | 303.0  | 289.2  | 285.1  | 274.4  | 268.2  | 257.5  | 258.7  | 255.4  |
| 10°   | 184.7  | 172.1  | 168.9  | 165.8  | 162.6  | 161.5  | 162.6  | 161.5  |
| 12.5° | 167.8  | 166.8  | 164.7  | 165.8  | 163.7  | 164.7  | 165.8  | 164.7  |
| 15°   | 182.6  | 184.7  | 182.6  | 183.7  | 182.6  | 184.7  | 185.8  | 185.8  |
| 17.5° | 214.2  | 218.5  | 216.4  | 219.6  | 218.5  | 223.9  | 223.9  | 223.9  |
| 20°   | 262.9  | 270.3  | 268.2  | 272.4  | 272.4  | 278.7  | 278.7  | 280.8  |
| 22.5° | 330.5  | 340.0  | 338.9  | 348.4  | 346.3  | 353.6  | 353.6  | 355.8  |
| 25°   | 411.7  | 421.2  | 422.2  | 428.6  | 427.6  | 435.0  | 435.0  | 437.1  |
| 27.5° | 445.5  | 450.8  | 449.7  | 452.9  | 454.0  | 458.1  | 461.4  | 459.2  |
| 30°   | 418.1  | 422.2  | 421.2  | 423.3  | 423.3  | 426.5  | 429.6  | 426.5  |
| 32.5° | 351.5  | 354.8  | 354.8  | 358.9  | 355.8  | 356.8  | 362.0  | 358.9  |
| 35°   | 269.2  | 271.3  | 269.2  | 271.3  | 272.4  | 272.4  | 277.7  | 276.6  |
| 37.5° | 192.1  | 193.2  | 193.2  | 196.3  | 193.2  | 193.2  | 198.5  | 199.6  |
| 40°   | 128.8  | 129.9  | 128.8  | 133.0  | 130.9  | 130.9  | 134.0  | 130.9  |
| 42.5° | 82.3   | 83.5   | 82.3   | 85.5   | 83.5   | 85.5   | 86.6   | 87.6   |
| 45°   | 50.7   | 50.7   | 49.7   | 51.7   | 50.7   | 51.7   | 52.8   | 52.8   |
| 47.5° | 29.5   | 29.5   | 28.5   | 30.6   | 29.5   | 29.5   | 29.5   | 30.6   |
| 50°   | 15.9   | 15.9   | 15.9   | 16.9   | 15.9   | 15.9   | 15.9   | 14.8   |
| 52.5° | 8.5    | 8.5    | 7.4    | 8.5    | 7.4    | 7.4    | 7.4    | 7.4    |
| 55°   | 4.2    | 3.1    | 3.1    | 3.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 57.5° | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 1.0    | 0.0    | 0.0    |
| 60°   | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 3.1    | 2.1    | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    |
| 75°   | 3.1    | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    |
| 77.5° | 4.2    | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 0.0    | 0.0    |
| 80°   | 4.2    | 3.1    | 2.1    | 2.1    | 2.1    | 1.0    | 1.0    | 1.0    |
| 82.5° | 4.2    | 3.1    | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 1.0    |
| 85°   | 4.2    | 3.1    | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 1.0    |
| 87.5° | 4.2    | 3.1    | 3.1    | 2.1    | 2.1    | 1.0    | 1.0    | 1.0    |
| 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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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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Peachtree City, GA 30269

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Scaled Data Report



(END OF REPORT)