

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: P1219455

Luminaire Tested: **LDSQA4A10950D010TE LAR35FL 4LSQAL1H 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: P1219455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26804)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA4A10950D010TE LAR35FL 4LSQAL1H 30°  
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 35° FLOOD, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

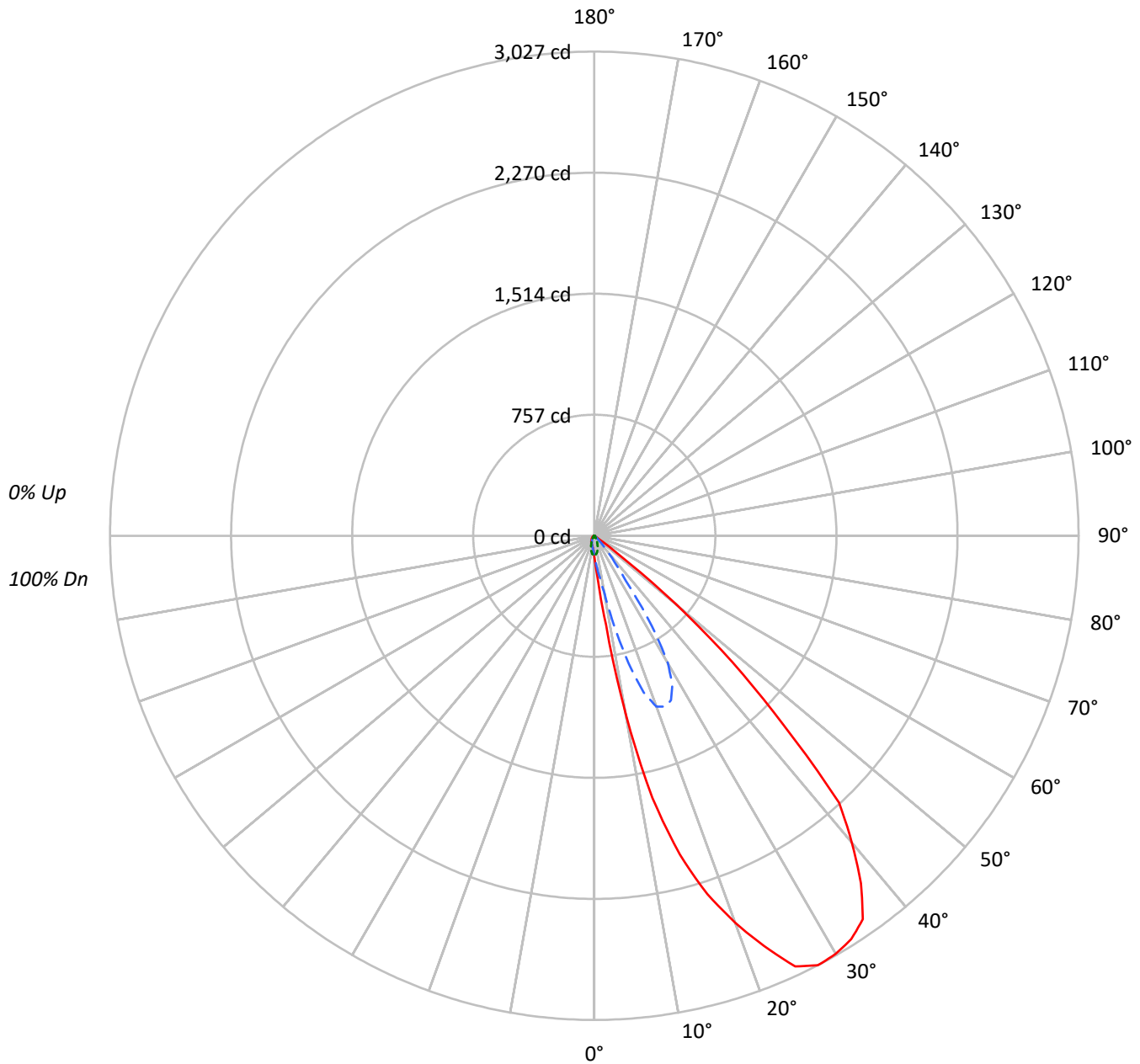
Lumens per Lamp: N/A  
Luminaire Lumens: 1008.2 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Spacing Criteria (0/90/45): 2.46 / 0.61 / 1.2  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.4  
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   | 106 | 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  | 77  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 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  | 52  | 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  | 60  | 50  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 12080  | 12080 | 12080 |
| 5°  | 28308  | 11397 | 7974  |
| 10° | 111837 | 10014 | 6640  |
| 15° | 206974 | 8023  | 5827  |
| 20° | 265381 | 5835  | 5278  |
| 25° | 317528 | 4147  | 4671  |
| 30° | 337633 | 2718  | 4105  |
| 35° | 346026 | 1644  | 3583  |
| 40° | 316749 | 1062  | 3073  |
| 45° | 228575 | 754   | 2521  |
| 50° | 99786  | 603   | 2095  |
| 55° | 6891   | 507   | 1757  |
| 60° | 1240   | 484   | 1453  |
| 65° | 458    | 458   | 1032  |
| 70° | 425    | 566   | 708   |
| 75° | 374    | 749   | 749   |
| 80° | 0      | 1116  | 837   |
| 85° | 0      | 2223  | 556   |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 18.2   | 1.8       |
| 10°-20°   | 142.7  | 14.2      |
| 20°-30°   | 298.8  | 29.6      |
| 30°-40°   | 332.6  | 33.0      |
| 40°-50°   | 190.9  | 18.9      |
| 50°-60°   | 19.1   | 1.9       |
| 60°-70°   | 3.0    | 0.3       |
| 70°-80°   | 1.9    | 0.2       |
| 80°-90°   | 1.2    | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 459.6  | 45.6      |
| 0°-40°    | 792.2  | 78.6      |
| 0°-60°    | 1002.2 | 99.4      |
| 0°-90°    | 1008.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1008.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 125  | 125  | 125 | 125  | 125  |      |
| 5°  | 291  | 201  | 117 | 85   | 82   | 53   |
| 15° | 2064 | 824  | 80  | 56   | 58   | 583  |
| 25° | 2971 | 1134 | 39  | 34   | 44   | 1345 |
| 35° | 2926 | 346  | 14  | 20   | 30   | 1787 |
| 45° | 1668 | 42   | 6   | 11   | 18   | 1274 |
| 55° | 41   | 6    | 3   | 6    | 10   | 122  |
| 65° | 2    | 2    | 2   | 4    | 4    | 3    |
| 75° | 1    | 1    | 2   | 2    | 2    | 1    |
| 85° | 0    | 1    | 2   | 2    | 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°    | 124.7  | 124.7  | 124.7  | 124.7  | 124.7  | 124.7  | 124.7  | 124.7  | 124.7  | 124.7  | 124.7  |
| 2.5°  | 186.3  | 182.3  | 178.3  | 175.9  | 173.4  | 176.8  | 174.3  | 173.4  | 166.4  | 162.9  | 160.0  |
| 5°    | 291.1  | 283.6  | 272.7  | 263.7  | 254.8  | 256.8  | 249.8  | 241.4  | 224.0  | 211.5  | 200.6  |
| 7.5°  | 561.7  | 543.4  | 509.6  | 476.8  | 444.0  | 438.0  | 416.2  | 378.5  | 329.8  | 293.1  | 261.2  |
| 10°   | 1136.9 | 1081.3 | 1019.2 | 952.1  | 873.6  | 851.8  | 797.7  | 695.3  | 583.5  | 455.9  | 363.6  |
| 12.5° | 1678.2 | 1652.9 | 1579.9 | 1493.0 | 1408.1 | 1356.0 | 1299.8 | 1130.9 | 953.6  | 748.0  | 576.2  |
| 15°   | 2063.7 | 2048.3 | 1984.2 | 1905.3 | 1813.9 | 1780.1 | 1711.5 | 1543.2 | 1319.1 | 1073.3 | 824.0  |
| 17.5° | 2349.3 | 2322.9 | 2255.9 | 2170.0 | 2061.7 | 2032.9 | 1950.9 | 1783.5 | 1551.1 | 1304.3 | 1027.6 |
| 20°   | 2574.2 | 2557.9 | 2470.9 | 2367.7 | 2238.0 | 2203.2 | 2107.4 | 1933.0 | 1680.2 | 1418.0 | 1136.4 |
| 22.5° | 2776.4 | 2748.6 | 2641.8 | 2518.7 | 2370.6 | 2333.3 | 2226.5 | 2035.4 | 1763.6 | 1471.6 | 1155.8 |
| 25°   | 2970.6 | 2928.3 | 2798.7 | 2637.3 | 2463.4 | 2412.8 | 2295.6 | 2093.0 | 1794.5 | 1476.1 | 1133.9 |
| 27.5° | 3027.2 | 3005.8 | 2886.2 | 2698.4 | 2497.2 | 2440.2 | 2318.0 | 2105.9 | 1783.1 | 1435.4 | 1055.4 |
| 30°   | 3018.3 | 3000.4 | 2900.6 | 2704.4 | 2491.3 | 2431.2 | 2307.0 | 2066.2 | 1716.5 | 1329.1 | 916.9  |
| 32.5° | 2990.0 | 2983.0 | 2862.3 | 2652.7 | 2435.7 | 2370.2 | 2236.0 | 1967.3 | 1591.8 | 1167.2 | 670.0  |
| 35°   | 2925.9 | 2898.6 | 2748.1 | 2550.9 | 2342.3 | 2270.3 | 2118.8 | 1825.7 | 1427.4 | 849.8  | 346.2  |
| 37.5° | 2738.1 | 2716.8 | 2598.1 | 2425.3 | 2222.1 | 2129.7 | 1969.8 | 1643.0 | 1105.1 | 483.3  | 207.1  |
| 40°   | 2504.7 | 2494.2 | 2400.9 | 2246.4 | 2029.4 | 1925.1 | 1751.3 | 1344.5 | 674.4  | 274.7  | 136.6  |
| 42.5° | 2265.3 | 2262.3 | 2162.5 | 2001.1 | 1765.7 | 1646.0 | 1465.7 | 906.9  | 358.6  | 165.9  | 78.9   |
| 45°   | 1668.4 | 1686.2 | 1616.7 | 1519.9 | 1340.0 | 1253.1 | 1019.2 | 467.4  | 206.6  | 91.9   | 41.7   |
| 47.5° | 1170.2 | 1150.2 | 1027.1 | 857.8  | 693.4  | 587.1  | 444.0  | 221.0  | 110.2  | 48.2   | 23.8   |
| 50°   | 662.1  | 665.5  | 554.3  | 448.4  | 294.0  | 233.0  | 176.8  | 111.3  | 53.1   | 25.4   | 14.4   |
| 52.5° | 172.8  | 180.8  | 156.0  | 134.1  | 114.2  | 92.9   | 75.0   | 48.2   | 25.4   | 14.9   | 9.5    |
| 55°   | 40.8   | 42.2   | 39.2   | 36.7   | 34.7   | 30.8   | 27.4   | 20.9   | 13.9   | 9.5    | 5.9    |
| 57.5° | 14.4   | 14.9   | 14.4   | 14.4   | 13.9   | 13.4   | 12.4   | 10.9   | 8.4    | 5.9    | 4.0    |
| 60°   | 6.4    | 7.0    | 6.4    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 5.0    | 3.4    | 2.5    |
| 62.5° | 3.0    | 3.0    | 3.0    | 3.0    | 3.4    | 3.4    | 4.0    | 4.0    | 3.0    | 2.5    | 2.0    |
| 65°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 1.5    |
| 67.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 70°   | 1.5    | 1.5    | 1.5    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.5    |
| 72.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 75°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    | 1.0    | 1.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    | 1.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    | 1.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    | 1.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    | 1.0    |
| 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°    | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 |
| 2.5°  | 154.4 | 153.9 | 148.5 | 144.6 | 142.6 | 139.6 | 136.1 | 131.1 | 125.6 | 120.6 | 118.7 |
| 5°    | 187.7 | 181.3 | 169.8 | 160.5 | 156.0 | 151.5 | 143.5 | 134.6 | 126.2 | 117.2 | 112.7 |
| 7.5°  | 231.0 | 212.1 | 189.7 | 172.3 | 164.9 | 157.5 | 146.0 | 133.6 | 122.2 | 110.2 | 103.8 |
| 10°   | 290.1 | 246.4 | 207.6 | 179.8 | 168.9 | 158.9 | 142.6 | 127.2 | 114.7 | 101.8 | 93.4  |
| 12.5° | 414.8 | 306.5 | 226.5 | 183.2 | 168.9 | 156.0 | 136.1 | 118.2 | 104.3 | 90.9  | 83.0  |
| 15°   | 597.5 | 413.7 | 267.7 | 186.8 | 165.4 | 149.0 | 126.2 | 106.8 | 91.9  | 80.0  | 72.5  |
| 17.5° | 745.1 | 512.6 | 318.9 | 195.7 | 160.9 | 139.6 | 113.3 | 92.9  | 78.9  | 68.0  | 62.1  |
| 20°   | 819.5 | 554.3 | 342.2 | 197.2 | 150.0 | 124.7 | 97.9  | 78.5  | 66.0  | 56.6  | 51.7  |
| 22.5° | 818.1 | 540.9 | 321.4 | 172.8 | 131.7 | 107.7 | 82.5  | 64.6  | 54.6  | 47.2  | 43.2  |
| 25°   | 766.4 | 478.8 | 268.2 | 138.1 | 106.3 | 89.4  | 67.1  | 52.1  | 44.2  | 38.8  | 35.3  |
| 27.5° | 669.6 | 388.9 | 200.2 | 102.3 | 83.0  | 70.5  | 52.1  | 41.7  | 35.3  | 31.3  | 28.8  |
| 30°   | 525.5 | 260.2 | 126.2 | 76.0  | 63.1  | 53.1  | 40.2  | 32.2  | 27.8  | 24.3  | 22.9  |
| 32.5° | 289.5 | 135.6 | 85.0  | 55.6  | 46.2  | 38.8  | 29.8  | 23.3  | 20.4  | 17.9  | 17.4  |
| 35°   | 160.0 | 95.9  | 60.6  | 37.2  | 30.8  | 26.3  | 20.4  | 16.8  | 14.9  | 13.9  | 13.9  |
| 37.5° | 113.3 | 61.6  | 36.3  | 23.3  | 19.9  | 17.4  | 13.9  | 12.0  | 11.4  | 10.9  | 10.9  |
| 40°   | 68.0  | 36.3  | 21.8  | 15.4  | 13.4  | 12.0  | 10.4  | 8.9   | 8.9   | 8.4   | 8.9   |
| 42.5° | 37.2  | 21.8  | 14.9  | 10.9  | 9.5   | 8.9   | 7.5   | 7.0   | 7.0   | 7.0   | 7.5   |
| 45°   | 22.4  | 14.4  | 10.4  | 7.9   | 7.0   | 5.9   | 5.5   | 5.0   | 5.5   | 5.5   | 5.9   |
| 47.5° | 14.4  | 10.4  | 7.0   | 5.0   | 4.5   | 4.0   | 3.4   | 4.0   | 4.0   | 4.5   | 5.0   |
| 50°   | 10.0  | 6.4   | 4.5   | 3.0   | 3.0   | 2.5   | 3.0   | 3.0   | 3.4   | 4.0   | 4.5   |
| 52.5° | 6.4   | 4.5   | 3.0   | 2.5   | 2.0   | 2.0   | 2.0   | 2.5   | 3.0   | 3.4   | 4.0   |
| 55°   | 4.0   | 3.0   | 2.5   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.5   | 3.0   | 3.4   |
| 57.5° | 3.0   | 2.5   | 2.0   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.5   | 2.5   | 3.0   |
| 60°   | 2.0   | 2.0   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.5   | 3.0   |
| 62.5° | 2.0   | 2.0   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.0   | 2.5   | 2.5   |
| 65°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.0   | 2.5   |
| 67.5° | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.5   |
| 70°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.5   |
| 72.5° | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.0   |
| 75°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.0   | 2.0   |
| 77.5° | 1.0   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.0   | 2.0   |
| 80°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.0   | 2.0   |
| 82.5° | 1.0   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.0   | 2.0   |
| 85°   | 1.0   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.0   | 2.0   |
| 87.5° | 1.0   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.0   | 2.0   | 2.0   |
| 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°    | 124.7 | 124.7 | 124.7 | 124.7  | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 |
| 2.5°  | 116.3 | 112.7 | 109.7 | 110.8  | 108.8 | 105.2 | 104.3 | 101.8 | 98.8  | 98.4  | 98.4  |
| 5°    | 107.7 | 102.3 | 97.9  | 97.3   | 95.4  | 91.4  | 90.4  | 87.9  | 85.4  | 85.0  | 84.4  |
| 7.5°  | 97.3  | 91.4  | 87.5  | 86.4   | 85.0  | 81.4  | 80.9  | 78.5  | 77.0  | 76.0  | 76.0  |
| 10°   | 86.9  | 81.4  | 78.0  | 77.5   | 76.4  | 73.5  | 73.0  | 71.0  | 69.6  | 69.1  | 68.5  |
| 12.5° | 77.0  | 72.5  | 69.6  | 69.1   | 68.0  | 65.5  | 65.1  | 63.5  | 62.6  | 62.1  | 62.1  |
| 15°   | 67.5  | 63.5  | 61.0  | 60.6   | 60.1  | 57.6  | 57.6  | 56.6  | 56.2  | 56.2  | 56.6  |
| 17.5° | 58.1  | 54.6  | 52.6  | 52.1   | 52.1  | 50.1  | 50.6  | 50.1  | 50.1  | 50.1  | 51.2  |
| 20°   | 48.7  | 45.7  | 44.2  | 44.7   | 43.7  | 43.2  | 43.7  | 43.7  | 43.7  | 44.7  | 46.2  |
| 22.5° | 40.8  | 38.3  | 36.7  | 37.2   | 37.2  | 36.7  | 37.2  | 37.8  | 38.8  | 40.2  | 41.7  |
| 25°   | 33.3  | 31.3  | 30.8  | 31.3   | 31.3  | 31.3  | 32.2  | 33.3  | 34.3  | 35.8  | 37.2  |
| 27.5° | 26.8  | 25.4  | 25.4  | 25.8   | 26.3  | 26.3  | 27.8  | 28.8  | 30.3  | 31.8  | 33.3  |
| 30°   | 21.3  | 20.9  | 20.9  | 21.8   | 21.8  | 22.4  | 24.3  | 25.4  | 26.3  | 27.8  | 29.3  |
| 32.5° | 16.8  | 16.8  | 17.4  | 18.4   | 18.4  | 19.3  | 20.9  | 21.8  | 22.9  | 24.3  | 25.8  |
| 35°   | 13.9  | 14.4  | 14.9  | 15.4   | 15.9  | 16.4  | 17.9  | 18.8  | 19.9  | 21.3  | 22.4  |
| 37.5° | 11.4  | 12.0  | 12.4  | 13.4   | 13.4  | 13.9  | 15.4  | 16.4  | 16.8  | 18.4  | 19.9  |
| 40°   | 9.5   | 10.0  | 10.4  | 11.4   | 11.4  | 12.0  | 13.4  | 13.9  | 14.4  | 15.9  | 17.4  |
| 42.5° | 7.9   | 8.4   | 8.9   | 9.5    | 10.0  | 10.4  | 11.4  | 12.0  | 12.9  | 13.9  | 14.9  |
| 45°   | 6.4   | 7.0   | 7.5   | 7.9    | 8.4   | 8.9   | 9.5   | 10.4  | 10.9  | 12.0  | 12.9  |
| 47.5° | 5.5   | 5.9   | 6.4   | 7.0    | 7.5   | 7.5   | 8.4   | 8.9   | 9.5   | 10.4  | 11.4  |
| 50°   | 5.0   | 5.5   | 5.9   | 5.9    | 6.4   | 7.0   | 7.5   | 7.9   | 8.4   | 8.9   | 10.0  |
| 52.5° | 4.0   | 4.5   | 5.0   | 5.5    | 5.5   | 5.9   | 6.4   | 7.0   | 7.5   | 7.9   | 8.4   |
| 55°   | 4.0   | 4.0   | 4.5   | 5.0    | 5.0   | 5.5   | 5.9   | 6.4   | 6.4   | 7.0   | 7.5   |
| 57.5° | 3.4   | 4.0   | 4.0   | 4.5    | 4.5   | 5.0   | 5.5   | 5.5   | 5.9   | 5.9   | 6.4   |
| 60°   | 3.0   | 3.4   | 4.0   | 4.0    | 4.0   | 4.5   | 4.5   | 5.0   | 5.0   | 5.5   | 5.5   |
| 62.5° | 3.0   | 3.4   | 3.4   | 4.0    | 4.0   | 4.0   | 4.5   | 4.5   | 4.5   | 5.0   | 5.0   |
| 65°   | 3.0   | 3.0   | 3.4   | 3.4    | 3.4   | 3.4   | 4.0   | 4.0   | 4.0   | 4.5   | 4.5   |
| 67.5° | 2.5   | 3.0   | 3.0   | 3.0    | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 4.0   | 4.0   |
| 70°   | 2.5   | 2.5   | 3.0   | 3.0    | 3.0   | 3.0   | 3.0   | 3.4   | 3.4   | 3.4   | 3.4   |
| 72.5° | 2.5   | 2.5   | 2.5   | 2.5    | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| 75°   | 2.0   | 2.5   | 2.5   | 2.5    | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| 77.5° | 2.0   | 2.0   | 2.0   | 2.5    | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| 80°   | 2.0   | 2.0   | 2.0   | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 82.5° | 2.0   | 2.0   | 2.0   | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 1.5   | 1.5   |
| 85°   | 2.0   | 2.0   | 1.5   | 1.5    | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| 87.5° | 1.5   | 1.5   | 1.5   | 1.5    | 1.5   | 1.5   | 1.5   | 1.5   | 1.0   | 1.0   | 1.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1219455

CATALOG NUMBER: LDSQA4A10950D010TE LAR35FL 4LSQAL1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 124.7 | 124.7 | 124.7  | 124.7 | 124.7 | 124.7 | 124.7 | 124.7 |
| 2.5°  | 96.3  | 95.4  | 94.8   | 96.3  | 94.3  | 95.4  | 94.8  | 95.4  |
| 5°    | 83.0  | 82.0  | 81.4   | 83.0  | 80.9  | 82.0  | 80.9  | 82.0  |
| 7.5°  | 74.5  | 74.0  | 73.5   | 74.5  | 73.0  | 74.0  | 73.5  | 74.0  |
| 10°   | 67.5  | 67.1  | 66.6   | 68.0  | 66.6  | 67.5  | 67.1  | 67.5  |
| 12.5° | 61.6  | 61.6  | 61.0   | 62.1  | 61.0  | 62.1  | 61.6  | 62.1  |
| 15°   | 56.2  | 56.6  | 56.2   | 57.1  | 56.6  | 57.6  | 57.1  | 58.1  |
| 17.5° | 51.7  | 52.1  | 52.1   | 53.7  | 53.1  | 54.6  | 54.2  | 54.6  |
| 20°   | 47.2  | 47.6  | 48.2   | 49.2  | 49.2  | 50.6  | 50.1  | 51.2  |
| 22.5° | 42.7  | 43.7  | 43.7   | 45.2  | 45.2  | 46.7  | 46.7  | 47.2  |
| 25°   | 38.3  | 39.7  | 40.2   | 41.2  | 41.7  | 43.2  | 43.2  | 43.7  |
| 27.5° | 34.7  | 35.8  | 36.3   | 37.8  | 38.3  | 39.7  | 39.7  | 40.8  |
| 30°   | 30.8  | 32.2  | 32.8   | 33.8  | 34.3  | 35.8  | 35.8  | 36.7  |
| 32.5° | 27.4  | 28.3  | 29.3   | 30.3  | 30.8  | 32.2  | 32.2  | 33.3  |
| 35°   | 23.8  | 25.4  | 25.8   | 26.8  | 27.8  | 29.3  | 29.3  | 30.3  |
| 37.5° | 20.9  | 22.4  | 22.9   | 23.8  | 24.9  | 26.3  | 26.3  | 27.4  |
| 40°   | 18.4  | 19.9  | 20.4   | 21.3  | 21.8  | 23.8  | 23.8  | 24.3  |
| 42.5° | 16.4  | 17.4  | 17.9   | 18.8  | 19.3  | 20.4  | 20.4  | 21.3  |
| 45°   | 13.9  | 14.9  | 15.4   | 15.9  | 16.8  | 17.9  | 17.9  | 18.4  |
| 47.5° | 12.0  | 12.9  | 13.4   | 13.9  | 14.4  | 15.4  | 15.4  | 16.4  |
| 50°   | 10.4  | 10.9  | 11.4   | 12.0  | 12.4  | 13.4  | 13.4  | 13.9  |
| 52.5° | 8.9   | 9.5   | 10.0   | 10.4  | 10.9  | 11.4  | 12.0  | 12.4  |
| 55°   | 7.9   | 8.4   | 8.4    | 8.9   | 9.5   | 10.0  | 10.0  | 10.4  |
| 57.5° | 7.0   | 7.5   | 7.5    | 7.5   | 7.9   | 8.4   | 8.4   | 8.9   |
| 60°   | 5.9   | 6.4   | 6.4    | 6.4   | 7.0   | 7.0   | 7.0   | 7.5   |
| 62.5° | 5.5   | 5.5   | 5.5    | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 65°   | 4.5   | 4.5   | 4.5    | 4.5   | 4.5   | 4.5   | 4.0   | 4.5   |
| 67.5° | 4.0   | 4.0   | 4.0    | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   |
| 70°   | 3.4   | 3.4   | 3.4    | 3.0   | 3.0   | 3.0   | 2.5   | 2.5   |
| 72.5° | 3.0   | 3.0   | 3.0    | 2.5   | 2.5   | 2.5   | 2.0   | 2.0   |
| 75°   | 2.5   | 2.5   | 2.5    | 2.5   | 2.0   | 2.0   | 2.0   | 2.0   |
| 77.5° | 2.0   | 2.0   | 2.0    | 2.0   | 2.0   | 2.0   | 1.5   | 1.5   |
| 80°   | 2.0   | 1.5   | 1.5    | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| 82.5° | 1.5   | 1.5   | 1.5    | 1.5   | 1.0   | 1.0   | 1.0   | 1.0   |
| 85°   | 1.0   | 1.0   | 1.0    | 1.0   | 1.0   | 1.0   | 0.5   | 0.5   |
| 87.5° | 1.0   | 0.5   | 0.5    | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   |
| 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



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Peachtree City, GA 30269

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1121 Highway 74 South

Peachtree City, GA 30269



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

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