

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: P1212352

Luminaire Tested: **LDSQA4A35927D010TE LAR35FL 4LSQA1H 30°**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P1212352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26801)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA4A35927D010TE LAR35FL 4LSQA1H 30°  
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 35° FLOOD, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

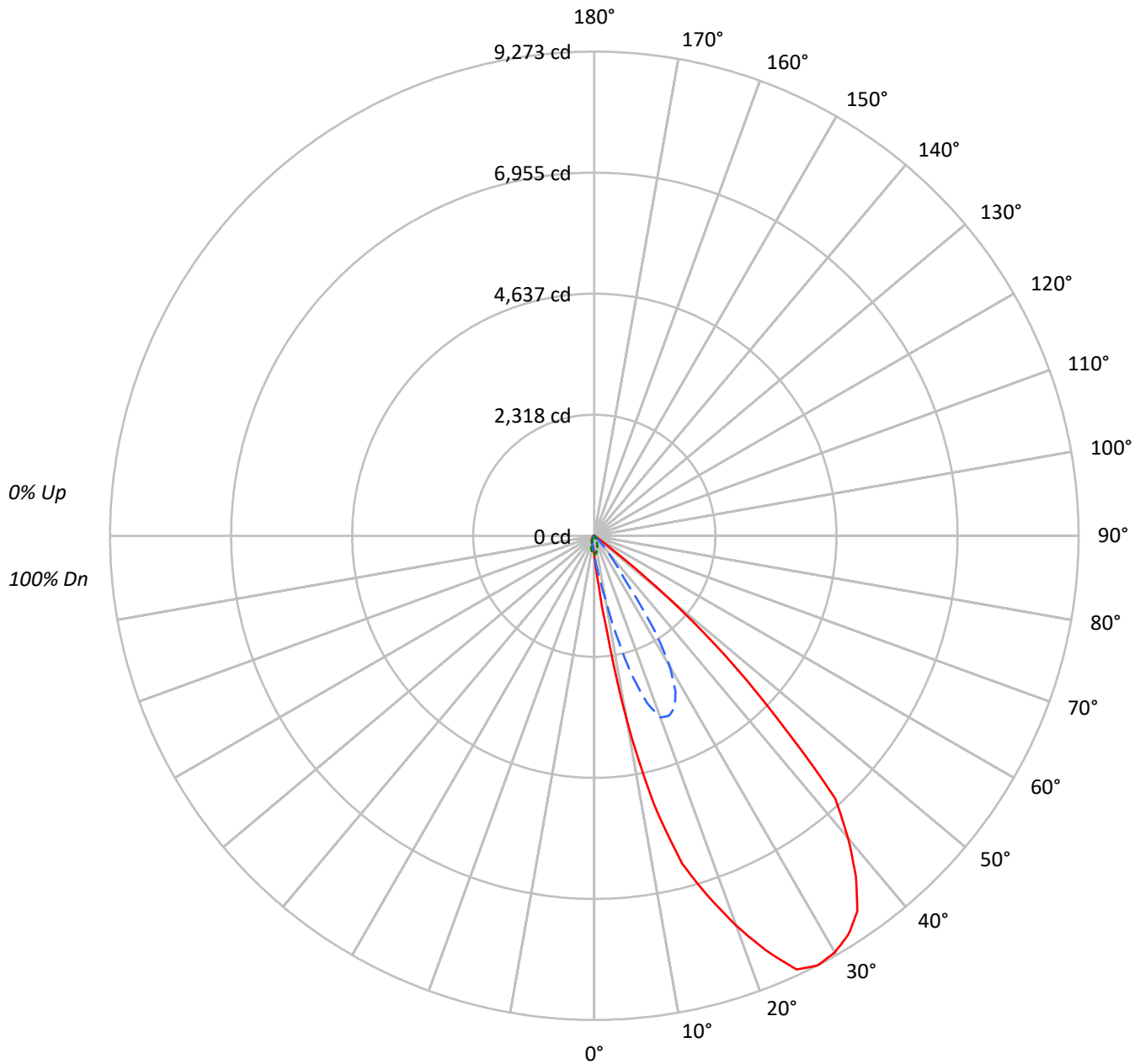
Lumens per Lamp: N/A  
Luminaire Lumens: 3037.8 lumens  
Efficiency: N/A  
Efficacy: 63.7 lumens/watt  
Spacing Criteria (0/90/45): 2.46 / 0.59 / 1.2  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 47.7  
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

1121 Highway 74 South

Peachtree City, GA 30269



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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 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 84  | 83  |    |    |
| 3   | 99  | 91  | 85  | 81  | 97  | 90  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 72  | 91  | 82  | 76  | 71  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 60  |    |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 46  | 45  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 41  |    |    |
| 10  | 62  | 50  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 47  | 42  | 39  | 37  |    |    |

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

|     | 0°      | 90°   | 180°  |
|-----|---------|-------|-------|
| 0°  | 34342   | 34342 | 34342 |
| 5°  | 90302   | 32713 | 21365 |
| 10° | 354033  | 28311 | 17775 |
| 15° | 651783  | 22305 | 15746 |
| 20° | 819009  | 15763 | 14330 |
| 25° | 979649  | 10411 | 12784 |
| 30° | 1030194 | 6522  | 11209 |
| 35° | 1038503 | 3950  | 9698  |
| 40° | 955635  | 2643  | 8258  |
| 45° | 679903  | 1904  | 6864  |
| 50° | 280956  | 1462  | 5667  |
| 55° | 16197   | 1385  | 4932  |
| 60° | 1879    | 1337  | 4049  |
| 65° | 642     | 1582  | 2865  |
| 70° | 793     | 1558  | 1954  |
| 75° | 1048    | 2059  | 2059  |
| 80° | 0       | 3068  | 2343  |
| 85° | 0       | 6113  | 3112  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.7   | 1.8       |
| 10°-20°   | 445.1  | 14.7      |
| 20°-30°   | 920.7  | 30.3      |
| 30°-40°   | 1002.3 | 33.0      |
| 40°-50°   | 549.6  | 18.1      |
| 50°-60°   | 47.6   | 1.6       |
| 60°-70°   | 7.8    | 0.3       |
| 70°-80°   | 5.5    | 0.2       |
| 80°-90°   | 3.5    | 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°    | 1421.6 | 46.8      |
| 0°-40°    | 2423.9 | 79.8      |
| 0°-60°    | 3021.0 | 99.4      |
| 0°-90°    | 3037.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3037.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 354  | 354  | 354 | 354  | 354  |      |
| 5°  | 929  | 635  | 336 | 232  | 220  | 169  |
| 15° | 6499 | 2732 | 222 | 150  | 157  | 1815 |
| 25° | 9165 | 3634 | 97  | 92   | 120  | 4139 |
| 35° | 8781 | 994  | 33  | 53   | 82   | 5389 |
| 45° | 4963 | 102  | 14  | 29   | 50   | 3788 |
| 55° | 96   | 11   | 8   | 18   | 29   | 328  |
| 65° | 3    | 4    | 7   | 11   | 12   | 4    |
| 75° | 3    | 4    | 6   | 8    | 6    | 2    |
| 85° | 0    | 3    | 6   | 4    | 3    | 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°    | 354.5  | 354.5  | 354.5  | 354.5  | 354.5  | 354.5  | 354.5  | 354.5  | 354.5  | 354.5  | 354.5  |
| 2.5°  | 557.4  | 537.9  | 535.2  | 537.9  | 524.0  | 522.7  | 525.5  | 514.3  | 504.6  | 494.9  | 486.5  |
| 5°    | 928.6  | 888.3  | 875.8  | 859.1  | 817.5  | 803.5  | 800.7  | 756.2  | 713.1  | 672.8  | 635.3  |
| 7.5°  | 1804.4 | 1723.7 | 1680.6 | 1597.3 | 1469.3 | 1412.4 | 1381.8 | 1235.8 | 1099.5 | 975.9  | 863.3  |
| 10°   | 3599.0 | 3387.8 | 3284.9 | 3127.7 | 2848.4 | 2710.8 | 2610.6 | 2243.7 | 1882.2 | 1534.6 | 1228.9 |
| 12.5° | 5251.8 | 5135.1 | 4983.6 | 4900.2 | 4446.9 | 4273.3 | 4107.9 | 3599.0 | 3048.5 | 2486.9 | 1929.5 |
| 15°   | 6498.8 | 6327.9 | 6166.6 | 6127.5 | 5771.7 | 5568.7 | 5385.3 | 4858.4 | 4203.8 | 3489.2 | 2731.5 |
| 17.5° | 7231.3 | 7109.0 | 6956.2 | 6882.4 | 6465.4 | 6301.4 | 6092.9 | 5582.7 | 4946.0 | 4234.2 | 3354.4 |
| 20°   | 7944.4 | 7763.8 | 7548.3 | 7437.1 | 6975.7 | 6786.5 | 6550.1 | 6013.7 | 5339.4 | 4583.2 | 3703.2 |
| 22.5° | 8596.5 | 8363.0 | 8057.1 | 7884.8 | 7366.1 | 7157.7 | 6893.6 | 6312.5 | 5582.7 | 4718.1 | 3732.4 |
| 25°   | 9165.0 | 8953.7 | 8546.4 | 8244.8 | 7633.2 | 7387.0 | 7079.8 | 6472.4 | 5670.3 | 4706.9 | 3633.7 |
| 27.5° | 9273.4 | 9131.6 | 8766.1 | 8417.1 | 7726.2 | 7452.4 | 7134.1 | 6505.8 | 5609.1 | 4552.6 | 3368.3 |
| 30°   | 9209.5 | 9056.6 | 8763.4 | 8407.3 | 7687.3 | 7410.7 | 7079.8 | 6364.0 | 5370.0 | 4192.6 | 2881.7 |
| 32.5° | 9055.1 | 8923.1 | 8572.8 | 8197.5 | 7495.4 | 7207.7 | 6858.8 | 6031.6 | 4960.0 | 3619.8 | 2119.8 |
| 35°   | 8781.3 | 8582.5 | 8159.9 | 7851.4 | 7191.0 | 6894.9 | 6468.2 | 5588.3 | 4346.9 | 2602.2 | 993.9  |
| 37.5° | 8224.0 | 8030.7 | 7726.2 | 7441.3 | 6797.7 | 6448.7 | 5998.3 | 4971.0 | 3222.3 | 1419.3 | 614.4  |
| 40°   | 7556.7 | 7389.8 | 7124.4 | 6847.6 | 6184.6 | 5782.9 | 5286.6 | 3885.4 | 1896.1 | 799.3  | 378.1  |
| 42.5° | 6831.0 | 6658.7 | 6358.4 | 6035.9 | 5313.0 | 4889.0 | 4352.5 | 2514.7 | 999.4  | 471.2  | 205.8  |
| 45°   | 4962.7 | 4808.4 | 4590.2 | 4358.0 | 3939.7 | 3633.7 | 2927.6 | 1320.6 | 553.3  | 250.2  | 101.5  |
| 47.5° | 3396.0 | 3212.6 | 2809.5 | 2321.5 | 1882.2 | 1609.8 | 1210.9 | 572.8  | 283.5  | 125.1  | 59.8   |
| 50°   | 1864.2 | 1669.6 | 1463.8 | 1139.9 | 763.1  | 626.9  | 487.9  | 276.6  | 127.8  | 62.6   | 33.4   |
| 52.5° | 457.4  | 404.6  | 369.7  | 340.6  | 269.7  | 243.2  | 205.8  | 115.3  | 58.3   | 34.7   | 23.7   |
| 55°   | 95.9   | 89.0   | 84.8   | 83.4   | 76.5   | 73.7   | 64.0   | 44.5   | 31.9   | 22.2   | 11.2   |
| 57.5° | 27.9   | 26.4   | 27.9   | 27.9   | 27.9   | 26.4   | 26.4   | 19.4   | 18.1   | 11.2   | 6.9    |
| 60°   | 9.7    | 9.7    | 9.7    | 11.2   | 11.2   | 11.2   | 12.5   | 12.5   | 9.7    | 6.9    | 5.5    |
| 62.5° | 4.2    | 4.2    | 4.2    | 5.5    | 5.5    | 6.9    | 6.9    | 6.9    | 5.5    | 5.5    | 4.2    |
| 65°   | 2.8    | 2.8    | 2.8    | 2.8    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    |
| 67.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 4.2    |
| 70°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 4.2    |
| 72.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 4.2    |
| 75°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 4.2    |
| 77.5° | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    | 2.8    | 2.8    | 2.8    | 4.2    |
| 80°   | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    | 2.8    | 2.8    | 2.8    | 2.8    |
| 82.5° | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 2.8    | 2.8    | 2.8    |
| 85°   | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 2.8    | 2.8    | 2.8    |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 2.8    | 2.8    | 2.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 354.5  | 354.5  | 354.5  | 354.5 | 354.5 | 354.5 | 354.5 | 354.5 | 354.5 | 354.5 | 354.5 |
| 2.5°  | 462.9  | 449.0  | 432.3  | 414.3 | 411.4 | 401.7 | 387.9 | 368.4 | 361.5 | 347.6 | 335.1 |
| 5°    | 581.1  | 543.5  | 504.6  | 469.9 | 458.7 | 443.5 | 418.4 | 383.7 | 361.5 | 336.4 | 315.5 |
| 7.5°  | 739.5  | 653.4  | 574.1  | 511.5 | 492.1 | 467.1 | 428.1 | 383.7 | 350.3 | 315.5 | 287.8 |
| 10°   | 950.8  | 775.6  | 639.4  | 537.9 | 506.0 | 472.7 | 421.3 | 367.0 | 328.1 | 287.8 | 258.6 |
| 12.5° | 1358.2 | 955.0  | 700.7  | 551.9 | 507.4 | 464.2 | 398.9 | 340.6 | 296.0 | 255.9 | 226.5 |
| 15°   | 1930.9 | 1295.6 | 824.2  | 561.6 | 493.6 | 440.7 | 364.3 | 304.5 | 259.9 | 222.4 | 194.6 |
| 17.5° | 2414.6 | 1618.0 | 989.7  | 589.5 | 483.8 | 410.1 | 323.9 | 262.7 | 219.7 | 186.3 | 164.0 |
| 20°   | 2651.0 | 1762.6 | 1064.9 | 593.6 | 456.0 | 364.3 | 276.6 | 218.3 | 180.7 | 152.9 | 133.5 |
| 22.5° | 2623.1 | 1714.0 | 995.4  | 520.0 | 385.0 | 307.2 | 229.4 | 176.6 | 144.5 | 122.3 | 108.4 |
| 25°   | 2436.8 | 1502.7 | 811.8  | 397.6 | 300.2 | 248.9 | 179.4 | 137.6 | 112.6 | 97.4  | 86.2  |
| 27.5° | 2124.1 | 1206.6 | 592.2  | 280.8 | 228.0 | 189.1 | 133.5 | 105.6 | 86.2  | 75.0  | 68.0  |
| 30°   | 1636.2 | 771.5  | 340.6  | 201.6 | 165.4 | 134.8 | 100.2 | 76.5  | 65.3  | 58.3  | 52.9  |
| 32.5° | 843.9  | 375.3  | 226.5  | 144.5 | 116.8 | 97.4  | 69.5  | 55.6  | 48.6  | 44.5  | 41.7  |
| 35°   | 462.9  | 266.9  | 157.0  | 93.1  | 75.0  | 62.6  | 47.3  | 38.9  | 36.1  | 33.4  | 33.4  |
| 37.5° | 318.4  | 165.4  | 87.5   | 55.6  | 45.8  | 38.9  | 31.9  | 27.9  | 26.4  | 26.4  | 26.4  |
| 40°   | 183.4  | 87.5   | 50.1   | 34.7  | 29.2  | 26.4  | 22.2  | 20.9  | 20.9  | 20.9  | 22.2  |
| 42.5° | 94.5   | 51.4   | 33.4   | 23.7  | 20.9  | 18.1  | 15.3  | 15.3  | 15.3  | 16.7  | 18.1  |
| 45°   | 55.6   | 34.7   | 22.2   | 15.3  | 13.9  | 12.5  | 11.2  | 11.2  | 12.5  | 13.9  | 15.3  |
| 47.5° | 34.7   | 23.7   | 13.9   | 9.7   | 8.2   | 8.2   | 8.2   | 8.2   | 9.7   | 11.2  | 12.5  |
| 50°   | 23.7   | 12.5   | 8.2    | 5.5   | 5.5   | 5.5   | 5.5   | 6.9   | 8.2   | 9.7   | 11.2  |
| 52.5° | 12.5   | 6.9    | 5.5    | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 6.9   | 8.2   | 9.7   |
| 55°   | 6.9    | 5.5    | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 5.5   | 6.9   | 8.2   | 9.7   |
| 57.5° | 5.5    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 6.9   | 8.2   |
| 60°   | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 6.9   | 8.2   |
| 62.5° | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 6.9   | 6.9   |
| 65°   | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 6.9   | 6.9   |
| 67.5° | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 5.5   | 6.9   |
| 70°   | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 5.5   | 5.5   | 6.9   |
| 72.5° | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 5.5   | 5.5   |
| 75°   | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 6.9   |
| 77.5° | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 80°   | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 82.5° | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 85°   | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 87.5° | 4.2    | 4.2    | 4.2    | 4.2   | 4.2   | 4.2   | 5.5   | 5.5   | 5.5   | 5.5   | 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):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 354.5 | 354.5 | 354.5 | 354.5  | 354.5 | 354.5 | 354.5 | 354.5 | 354.5 | 354.5 | 354.5 |
| 2.5°  | 328.1 | 317.0 | 305.8 | 305.8  | 300.2 | 292.0 | 289.1 | 280.8 | 275.3 | 272.5 | 269.7 |
| 5°    | 300.2 | 283.5 | 268.3 | 266.9  | 259.9 | 250.2 | 246.1 | 237.7 | 232.2 | 229.4 | 228.0 |
| 7.5°  | 268.3 | 251.6 | 236.2 | 233.5  | 228.0 | 221.0 | 216.8 | 209.9 | 207.1 | 204.3 | 203.0 |
| 10°   | 237.7 | 221.0 | 209.9 | 207.1  | 203.0 | 197.4 | 193.3 | 189.1 | 186.3 | 184.9 | 184.9 |
| 12.5° | 207.1 | 194.6 | 184.9 | 182.1  | 179.4 | 175.1 | 172.4 | 169.7 | 168.2 | 168.2 | 168.2 |
| 15°   | 179.4 | 168.2 | 159.9 | 159.9  | 157.0 | 154.2 | 154.2 | 151.5 | 150.2 | 151.5 | 152.9 |
| 17.5° | 151.5 | 143.2 | 136.3 | 136.3  | 134.8 | 133.5 | 133.5 | 133.5 | 134.8 | 136.3 | 139.0 |
| 20°   | 125.1 | 118.1 | 115.3 | 115.3  | 114.0 | 115.3 | 115.3 | 116.8 | 118.1 | 122.3 | 126.5 |
| 22.5° | 101.5 | 97.4  | 94.5  | 95.9   | 95.9  | 97.4  | 98.7  | 101.5 | 104.2 | 108.4 | 112.6 |
| 25°   | 82.0  | 79.2  | 77.8  | 79.2   | 80.7  | 82.0  | 84.8  | 87.5  | 91.7  | 95.9  | 101.5 |
| 27.5° | 65.3  | 64.0  | 64.0  | 65.3   | 66.7  | 69.5  | 73.7  | 76.5  | 80.7  | 84.8  | 90.4  |
| 30°   | 52.9  | 51.4  | 52.9  | 55.6   | 57.0  | 59.8  | 62.6  | 66.7  | 71.0  | 75.0  | 80.7  |
| 32.5° | 41.7  | 43.1  | 44.5  | 45.8   | 47.3  | 51.4  | 54.2  | 57.0  | 61.1  | 65.3  | 71.0  |
| 35°   | 34.7  | 36.1  | 37.6  | 38.9   | 40.4  | 43.1  | 45.8  | 48.6  | 52.9  | 57.0  | 62.6  |
| 37.5° | 27.9  | 29.2  | 30.6  | 33.4   | 34.7  | 36.1  | 40.4  | 41.7  | 45.8  | 48.6  | 54.2  |
| 40°   | 23.7  | 25.0  | 26.4  | 27.9   | 29.2  | 31.9  | 34.7  | 36.1  | 38.9  | 43.1  | 47.3  |
| 42.5° | 19.4  | 20.9  | 22.2  | 23.7   | 25.0  | 27.9  | 29.2  | 31.9  | 34.7  | 37.6  | 40.4  |
| 45°   | 16.7  | 18.1  | 19.4  | 20.9   | 22.2  | 23.7  | 25.0  | 27.9  | 29.2  | 31.9  | 34.7  |
| 47.5° | 13.9  | 15.3  | 18.1  | 18.1   | 19.4  | 20.9  | 22.2  | 23.7  | 26.4  | 27.9  | 30.6  |
| 50°   | 12.5  | 13.9  | 15.3  | 16.7   | 16.7  | 18.1  | 19.4  | 20.9  | 22.2  | 23.7  | 26.4  |
| 52.5° | 11.2  | 12.5  | 13.9  | 13.9   | 15.3  | 16.7  | 18.1  | 18.1  | 19.4  | 20.9  | 22.2  |
| 55°   | 9.7   | 11.2  | 12.5  | 12.5   | 13.9  | 15.3  | 15.3  | 16.7  | 18.1  | 18.1  | 19.4  |
| 57.5° | 9.7   | 9.7   | 11.2  | 11.2   | 12.5  | 12.5  | 13.9  | 15.3  | 15.3  | 16.7  | 18.1  |
| 60°   | 8.2   | 9.7   | 9.7   | 11.2   | 11.2  | 12.5  | 12.5  | 13.9  | 13.9  | 15.3  | 15.3  |
| 62.5° | 8.2   | 8.2   | 9.7   | 9.7    | 11.2  | 11.2  | 12.5  | 12.5  | 12.5  | 13.9  | 13.9  |
| 65°   | 8.2   | 8.2   | 9.7   | 9.7    | 9.7   | 11.2  | 11.2  | 11.2  | 11.2  | 12.5  | 12.5  |
| 67.5° | 6.9   | 8.2   | 8.2   | 9.7    | 9.7   | 9.7   | 9.7   | 9.7   | 11.2  | 11.2  | 11.2  |
| 70°   | 6.9   | 8.2   | 8.2   | 8.2    | 8.2   | 9.7   | 9.7   | 9.7   | 9.7   | 9.7   | 9.7   |
| 72.5° | 6.9   | 6.9   | 6.9   | 6.9    | 8.2   | 8.2   | 8.2   | 8.2   | 8.2   | 8.2   | 8.2   |
| 75°   | 6.9   | 6.9   | 6.9   | 6.9    | 6.9   | 8.2   | 8.2   | 8.2   | 8.2   | 8.2   | 8.2   |
| 77.5° | 6.9   | 6.9   | 6.9   | 6.9    | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   |
| 80°   | 5.5   | 5.5   | 5.5   | 5.5    | 5.5   | 6.9   | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 82.5° | 5.5   | 5.5   | 5.5   | 5.5    | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   | 4.2   | 4.2   |
| 85°   | 5.5   | 5.5   | 5.5   | 5.5    | 5.5   | 5.5   | 5.5   | 4.2   | 4.2   | 4.2   | 4.2   |
| 87.5° | 5.5   | 5.5   | 5.5   | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 2.8   | 2.8   |
| 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: P1212352

CATALOG NUMBER: LDSQA4A35927D010TE LAR35FL 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 354.5 | 354.5 | 354.5  | 354.5 | 354.5 | 354.5 | 354.5 | 354.5 |
| 2.5°  | 265.6 | 262.7 | 265.6  | 262.7 | 262.7 | 257.2 | 261.3 | 258.6 |
| 5°    | 223.7 | 221.0 | 223.7  | 222.4 | 219.7 | 218.3 | 221.0 | 219.7 |
| 7.5°  | 200.1 | 197.4 | 200.1  | 200.1 | 197.4 | 196.1 | 198.8 | 197.4 |
| 10°   | 182.1 | 180.7 | 182.1  | 182.1 | 180.7 | 179.4 | 182.1 | 180.7 |
| 12.5° | 166.9 | 165.4 | 168.2  | 168.2 | 166.9 | 166.9 | 169.7 | 166.9 |
| 15°   | 152.9 | 152.9 | 155.7  | 155.7 | 155.7 | 155.7 | 158.5 | 157.0 |
| 17.5° | 139.0 | 141.8 | 144.5  | 146.0 | 146.0 | 146.0 | 148.8 | 148.8 |
| 20°   | 127.8 | 130.6 | 133.5  | 134.8 | 136.3 | 136.3 | 139.0 | 139.0 |
| 22.5° | 115.3 | 118.1 | 122.3  | 123.8 | 125.1 | 126.5 | 129.3 | 129.3 |
| 25°   | 104.2 | 107.1 | 111.2  | 112.6 | 115.3 | 116.8 | 119.6 | 119.6 |
| 27.5° | 93.1  | 97.4  | 100.2  | 102.9 | 104.2 | 107.1 | 109.9 | 109.9 |
| 30°   | 83.4  | 87.5  | 90.4   | 93.1  | 94.5  | 97.4  | 100.2 | 100.2 |
| 32.5° | 73.7  | 77.8  | 80.7   | 83.4  | 86.2  | 87.5  | 91.7  | 91.7  |
| 35°   | 65.3  | 68.0  | 72.3   | 73.7  | 76.5  | 79.2  | 82.0  | 82.0  |
| 37.5° | 57.0  | 59.8  | 62.6   | 65.3  | 68.0  | 69.5  | 72.3  | 73.7  |
| 40°   | 50.1  | 52.9  | 55.6   | 57.0  | 59.8  | 62.6  | 64.0  | 65.3  |
| 42.5° | 43.1  | 45.8  | 48.6   | 50.1  | 52.9  | 54.2  | 57.0  | 57.0  |
| 45°   | 37.6  | 40.4  | 41.7   | 43.1  | 45.8  | 47.3  | 50.1  | 50.1  |
| 47.5° | 31.9  | 34.7  | 36.1   | 37.6  | 38.9  | 40.4  | 43.1  | 43.1  |
| 50°   | 27.9  | 29.2  | 30.6   | 31.9  | 33.4  | 36.1  | 37.6  | 37.6  |
| 52.5° | 23.7  | 26.4  | 26.4   | 27.9  | 29.2  | 30.6  | 31.9  | 33.4  |
| 55°   | 20.9  | 22.2  | 23.7   | 23.7  | 25.0  | 26.4  | 27.9  | 29.2  |
| 57.5° | 18.1  | 19.4  | 20.9   | 20.9  | 22.2  | 22.2  | 23.7  | 25.0  |
| 60°   | 16.7  | 16.7  | 18.1   | 18.1  | 18.1  | 19.4  | 19.4  | 20.9  |
| 62.5° | 13.9  | 13.9  | 15.3   | 15.3  | 15.3  | 15.3  | 15.3  | 15.3  |
| 65°   | 12.5  | 12.5  | 12.5   | 12.5  | 12.5  | 12.5  | 12.5  | 12.5  |
| 67.5° | 11.2  | 11.2  | 11.2   | 11.2  | 9.7   | 9.7   | 9.7   | 9.7   |
| 70°   | 9.7   | 9.7   | 9.7    | 9.7   | 8.2   | 8.2   | 8.2   | 6.9   |
| 72.5° | 8.2   | 8.2   | 8.2    | 8.2   | 6.9   | 6.9   | 5.5   | 5.5   |
| 75°   | 6.9   | 6.9   | 6.9    | 6.9   | 6.9   | 5.5   | 5.5   | 5.5   |
| 77.5° | 6.9   | 5.5   | 5.5    | 5.5   | 5.5   | 5.5   | 5.5   | 4.2   |
| 80°   | 5.5   | 5.5   | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   |
| 82.5° | 4.2   | 4.2   | 4.2    | 4.2   | 2.8   | 2.8   | 2.8   | 2.8   |
| 85°   | 4.2   | 2.8   | 2.8    | 2.8   | 2.8   | 2.8   | 2.8   | 2.8   |
| 87.5° | 2.8   | 1.5   | 1.5    | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   |
| 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



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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1121 Highway 74 South

Peachtree City, GA 30269



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

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