

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: P1219465

Luminaire Tested: **LDSQA4A15927D010TE LAR25NF 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: P1219465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26803)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA4A15927D010TE LAR25NF 4LSQAL1H 30°  
Description: PORTFOLIO 4" SQUARE LENSED ADJUSTABLE, SELF-FLANGED, 25° NARROW FLOOD, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

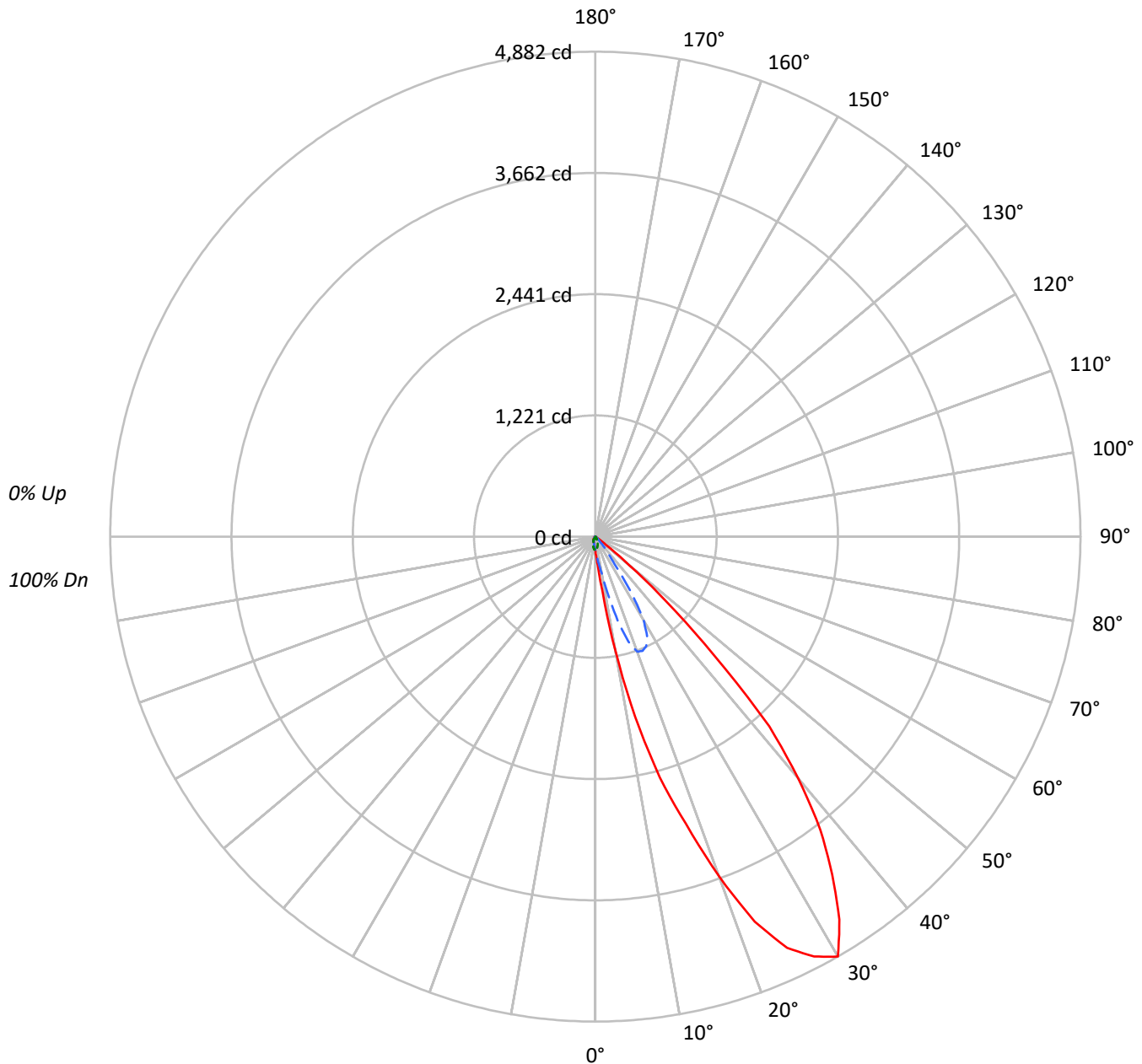
Lumens per Lamp: N/A  
Luminaire Lumens: 1222.9 lumens  
Efficiency: N/A  
Efficacy: 59.9 lumens/watt  
Spacing Criteria (0/90/45): 2.36 / 0.61 / 1.19  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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



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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   | 113 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 76  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 72  | 69  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 64  | 74  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 63  |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 57  |
| 7   | 76  | 65  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 51  |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 58  | 51  | 47  | 57  | 51  | 47  | 55  | 50  | 47  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 42  |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  |

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

|     | 0°     | 90°   | 180°  |
|-----|--------|-------|-------|
| 0°  | 13204  | 13204 | 13204 |
| 5°  | 29553  | 12418 | 8898  |
| 10° | 115899 | 10870 | 7004  |
| 15° | 251605 | 8806  | 6098  |
| 20° | 375340 | 6526  | 5515  |
| 25° | 488200 | 4596  | 4789  |
| 30° | 546144 | 3087  | 4184  |
| 35° | 491489 | 1809  | 3560  |
| 40° | 401112 | 1239  | 3111  |
| 45° | 230301 | 836   | 2521  |
| 50° | 67368  | 648   | 2140  |
| 55° | 7769   | 524   | 1757  |
| 60° | 1666   | 601   | 1414  |
| 65° | 573    | 573   | 986   |
| 70° | 538    | 708   | 708   |
| 75° | 449    | 936   | 711   |
| 80° | 0      | 1395  | 669   |
| 85° | 0      | 2779  | 667   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 19.5   | 1.6       |
| 10°-20°   | 167.4  | 13.7      |
| 20°-30°   | 399.3  | 32.7      |
| 30°-40°   | 421.4  | 34.5      |
| 40°-50°   | 191.1  | 15.6      |
| 50°-60°   | 16.8   | 1.4       |
| 60°-70°   | 3.5    | 0.3       |
| 70°-80°   | 2.3    | 0.2       |
| 80°-90°   | 1.4    | 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°    | 586.3  | 47.9      |
| 0°-40°    | 1007.7 | 82.4      |
| 0°-60°    | 1215.6 | 99.4      |
| 0°-90°    | 1222.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1222.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 136  | 136  | 136 | 136  | 136  |      |
| 5°  | 304  | 223  | 128 | 98   | 92   | 55   |
| 15° | 2509 | 882  | 88  | 60   | 61   | 730  |
| 25° | 4567 | 1214 | 43  | 37   | 45   | 2075 |
| 35° | 4156 | 335  | 15  | 21   | 30   | 2566 |
| 45° | 1681 | 47   | 6   | 12   | 18   | 1333 |
| 55° | 46   | 7    | 3   | 7    | 10   | 92   |
| 65° | 2    | 2    | 2   | 5    | 4    | 3    |
| 75° | 1    | 1    | 2   | 3    | 2    | 1    |
| 85° | 0    | 1    | 2   | 2    | 1    | 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°    | 136.3  | 136.3  | 136.3  | 136.3  | 136.3  | 136.3  | 136.3  | 136.3  | 136.3  | 136.3  | 136.3  |
| 2.5°  | 202.7  | 203.8  | 198.3  | 198.9  | 193.4  | 195.8  | 194.0  | 189.1  | 185.4  | 179.3  | 176.8  |
| 5°    | 303.9  | 305.7  | 293.4  | 289.8  | 276.9  | 276.9  | 271.4  | 258.5  | 246.8  | 232.6  | 222.8  |
| 7.5°  | 555.7  | 563.0  | 526.2  | 498.6  | 458.0  | 448.2  | 429.2  | 384.9  | 348.8  | 311.8  | 284.2  |
| 10°   | 1178.2 | 1164.7 | 1088.6 | 1025.9 | 921.6  | 882.9  | 831.3  | 704.2  | 587.6  | 471.5  | 380.7  |
| 12.5° | 1857.8 | 1901.5 | 1754.7 | 1703.8 | 1538.6 | 1503.6 | 1393.7 | 1186.2 | 989.1  | 784.1  | 602.3  |
| 15°   | 2508.7 | 2521.5 | 2393.2 | 2310.4 | 2109.0 | 2063.6 | 1928.4 | 1684.7 | 1419.5 | 1133.4 | 882.3  |
| 17.5° | 3031.2 | 3082.8 | 2894.3 | 2805.2 | 2543.7 | 2470.6 | 2311.6 | 2015.0 | 1719.7 | 1407.2 | 1109.4 |
| 20°   | 3640.8 | 3654.3 | 3430.8 | 3259.6 | 2917.5 | 2806.5 | 2616.1 | 2248.4 | 1896.5 | 1539.8 | 1232.3 |
| 22.5° | 4195.2 | 4192.2 | 3904.9 | 3662.9 | 3230.1 | 3097.4 | 2862.3 | 2426.4 | 2017.5 | 1598.8 | 1243.9 |
| 25°   | 4567.3 | 4577.1 | 4269.5 | 3983.4 | 3452.3 | 3273.0 | 3007.8 | 2519.1 | 2058.6 | 1597.0 | 1214.4 |
| 27.5° | 4765.6 | 4755.8 | 4426.1 | 4120.3 | 3534.0 | 3333.2 | 3045.2 | 2522.1 | 2021.2 | 1534.3 | 1126.0 |
| 30°   | 4882.3 | 4750.9 | 4399.1 | 4081.7 | 3478.8 | 3272.4 | 2979.6 | 2425.2 | 1896.5 | 1394.3 | 968.2  |
| 32.5° | 4570.3 | 4519.4 | 4213.0 | 3875.9 | 3288.4 | 3083.9 | 2794.8 | 2218.9 | 1698.8 | 1180.1 | 693.8  |
| 35°   | 4155.9 | 4157.8 | 3858.8 | 3543.8 | 2990.0 | 2812.0 | 2513.6 | 1967.7 | 1457.6 | 820.2  | 335.2  |
| 37.5° | 3721.2 | 3727.4 | 3443.1 | 3150.3 | 2657.3 | 2470.0 | 2190.7 | 1681.6 | 1048.6 | 417.5  | 202.0  |
| 40°   | 3171.8 | 3184.6 | 2939.7 | 2704.5 | 2249.6 | 2069.1 | 1819.8 | 1272.7 | 586.4  | 233.3  | 136.9  |
| 42.5° | 2591.5 | 2607.5 | 2390.2 | 2181.5 | 1794.6 | 1646.1 | 1425.0 | 788.3  | 291.1  | 151.1  | 80.4   |
| 45°   | 1681.0 | 1727.1 | 1565.6 | 1477.8 | 1253.7 | 1165.3 | 930.2  | 402.1  | 175.6  | 88.4   | 47.3   |
| 47.5° | 962.1  | 962.7  | 826.4  | 661.8  | 542.7  | 472.1  | 369.0  | 183.0  | 102.6  | 49.7   | 28.8   |
| 50°   | 447.0  | 458.0  | 362.8  | 302.0  | 216.1  | 183.0  | 150.4  | 98.8   | 54.1   | 28.8   | 17.8   |
| 52.5° | 130.2  | 137.5  | 124.6  | 113.0  | 95.7   | 85.3   | 73.1   | 48.5   | 28.2   | 17.2   | 11.1   |
| 55°   | 46.0   | 49.1   | 46.0   | 43.0   | 38.7   | 34.9   | 31.3   | 23.4   | 15.9   | 10.4   | 7.3    |
| 57.5° | 19.0   | 19.6   | 19.0   | 18.4   | 17.2   | 17.2   | 15.3   | 12.9   | 9.8    | 6.7    | 5.0    |
| 60°   | 8.6    | 9.2    | 8.6    | 9.2    | 8.6    | 8.6    | 8.6    | 9.2    | 6.1    | 4.3    | 3.7    |
| 62.5° | 3.7    | 4.3    | 4.3    | 4.3    | 4.3    | 5.0    | 5.0    | 4.3    | 3.7    | 3.1    | 2.5    |
| 65°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 67.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 70°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.2    | 1.2    | 1.9    | 1.9    | 1.9    |
| 72.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.9    | 1.9    |
| 75°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    | 1.2    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    | 1.2    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    | 1.2    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    | 1.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    | 1.2    |
| 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°    | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 |
| 2.5°  | 173.7 | 168.2 | 159.6 | 154.1 | 151.7 | 148.0 | 145.5 | 139.4 | 136.9 | 132.0 | 130.2 |
| 5°    | 213.6 | 202.7 | 189.7 | 179.3 | 172.6 | 165.1 | 154.1 | 141.9 | 135.7 | 127.7 | 123.5 |
| 7.5°  | 259.1 | 235.1 | 212.5 | 194.0 | 185.4 | 175.6 | 161.5 | 142.5 | 130.8 | 120.4 | 114.2 |
| 10°   | 316.8 | 267.7 | 232.1 | 202.7 | 189.7 | 176.8 | 159.6 | 137.5 | 122.8 | 110.5 | 103.8 |
| 12.5° | 451.8 | 322.9 | 249.9 | 207.5 | 191.0 | 174.9 | 153.4 | 130.8 | 113.6 | 99.5  | 92.1  |
| 15°   | 650.2 | 451.2 | 297.8 | 211.9 | 186.6 | 167.0 | 142.5 | 119.7 | 101.9 | 87.8  | 80.4  |
| 17.5° | 825.8 | 575.3 | 364.1 | 227.8 | 185.4 | 157.8 | 128.9 | 105.6 | 88.4  | 74.9  | 68.8  |
| 20°   | 921.6 | 640.3 | 408.3 | 237.6 | 179.9 | 143.6 | 113.6 | 91.5  | 74.9  | 63.3  | 57.7  |
| 22.5° | 923.4 | 636.7 | 392.3 | 216.1 | 158.4 | 124.6 | 98.2  | 77.3  | 62.7  | 52.2  | 47.9  |
| 25°   | 868.1 | 568.0 | 327.2 | 170.1 | 129.6 | 105.6 | 82.3  | 64.4  | 51.0  | 43.0  | 39.3  |
| 27.5° | 765.0 | 461.7 | 240.7 | 122.8 | 101.3 | 85.3  | 66.3  | 51.6  | 39.9  | 34.9  | 31.9  |
| 30°   | 601.7 | 300.9 | 140.6 | 91.5  | 78.6  | 65.7  | 50.4  | 36.2  | 31.3  | 27.6  | 25.1  |
| 32.5° | 322.9 | 146.1 | 98.2  | 67.5  | 55.8  | 46.0  | 33.2  | 26.4  | 22.7  | 20.3  | 19.6  |
| 35°   | 168.8 | 106.8 | 65.7  | 43.0  | 35.6  | 30.1  | 22.7  | 18.4  | 16.5  | 15.3  | 15.3  |
| 37.5° | 121.0 | 66.9  | 41.8  | 27.6  | 23.4  | 19.0  | 15.9  | 13.5  | 12.3  | 12.3  | 12.3  |
| 40°   | 71.9  | 41.2  | 25.1  | 17.8  | 15.3  | 13.5  | 11.7  | 9.8   | 9.8   | 9.8   | 9.8   |
| 42.5° | 43.6  | 25.7  | 17.8  | 12.3  | 11.1  | 9.8   | 8.6   | 8.0   | 7.3   | 7.3   | 8.0   |
| 45°   | 27.0  | 17.8  | 11.7  | 9.2   | 8.6   | 7.3   | 6.7   | 6.1   | 6.1   | 6.1   | 6.7   |
| 47.5° | 17.2  | 12.9  | 8.6   | 6.1   | 5.5   | 5.0   | 4.3   | 4.3   | 5.0   | 5.0   | 5.5   |
| 50°   | 12.9  | 8.0   | 5.5   | 4.3   | 3.7   | 3.7   | 3.1   | 3.7   | 3.7   | 4.3   | 5.0   |
| 52.5° | 7.3   | 5.0   | 3.7   | 3.1   | 3.1   | 2.5   | 2.5   | 3.1   | 3.1   | 3.7   | 4.3   |
| 55°   | 5.0   | 3.7   | 3.1   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 3.1   | 3.1   | 3.7   |
| 57.5° | 3.7   | 3.1   | 2.5   | 2.5   | 2.5   | 1.9   | 2.5   | 2.5   | 2.5   | 3.1   | 3.7   |
| 60°   | 3.1   | 2.5   | 2.5   | 2.5   | 2.5   | 1.9   | 1.9   | 2.5   | 2.5   | 3.1   | 3.1   |
| 62.5° | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 1.9   | 2.5   | 2.5   | 2.5   | 2.5   | 3.1   |
| 65°   | 1.9   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 3.1   |
| 67.5° | 1.9   | 1.9   | 2.5   | 2.5   | 2.5   | 1.9   | 2.5   | 2.5   | 2.5   | 2.5   | 3.1   |
| 70°   | 1.9   | 1.9   | 1.9   | 2.5   | 2.5   | 1.9   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| 72.5° | 1.9   | 1.9   | 1.9   | 2.5   | 2.5   | 1.9   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| 75°   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.5   | 2.5   | 2.5   |
| 77.5° | 1.9   | 1.9   | 1.9   | 1.9   | 2.5   | 1.9   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| 80°   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| 82.5° | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.5   | 2.5   | 2.5   | 2.5   |
| 85°   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.5   | 2.5   | 2.5   | 2.5   |
| 87.5° | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.5   | 2.5   | 2.5   |
| 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°    | 136.3 | 136.3 | 136.3 | 136.3  | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 |
| 2.5°  | 125.2 | 123.5 | 119.7 | 119.1  | 118.5 | 116.0 | 114.2 | 112.4 | 112.4 | 110.5 | 109.3 |
| 5°    | 116.0 | 113.0 | 108.7 | 106.8  | 106.2 | 103.2 | 100.7 | 98.8  | 98.2  | 96.4  | 94.5  |
| 7.5°  | 106.2 | 102.6 | 97.6  | 95.7   | 95.1  | 92.1  | 89.6  | 87.8  | 86.5  | 84.7  | 83.5  |
| 10°   | 95.7  | 91.5  | 87.2  | 85.3   | 84.7  | 81.7  | 79.8  | 78.0  | 76.7  | 75.5  | 74.2  |
| 12.5° | 84.7  | 81.1  | 76.7  | 74.9   | 74.2  | 71.9  | 70.0  | 68.8  | 68.1  | 66.9  | 66.3  |
| 15°   | 73.7  | 70.0  | 66.3  | 65.0   | 64.4  | 62.7  | 61.4  | 60.8  | 60.2  | 60.2  | 59.6  |
| 17.5° | 62.7  | 59.6  | 56.5  | 55.8   | 55.2  | 54.1  | 53.5  | 52.8  | 53.5  | 53.5  | 54.1  |
| 20°   | 52.2  | 49.7  | 47.3  | 47.3   | 46.6  | 46.0  | 46.0  | 46.0  | 47.3  | 47.9  | 49.1  |
| 22.5° | 43.0  | 41.2  | 39.3  | 39.3   | 39.3  | 39.3  | 39.3  | 40.5  | 41.8  | 43.0  | 43.6  |
| 25°   | 35.6  | 33.8  | 33.2  | 33.2   | 33.2  | 33.8  | 34.4  | 35.6  | 36.8  | 38.1  | 39.3  |
| 27.5° | 28.8  | 27.6  | 27.6  | 27.6   | 28.2  | 28.8  | 29.5  | 30.7  | 32.6  | 33.8  | 34.9  |
| 30°   | 23.4  | 22.7  | 22.7  | 23.4   | 24.0  | 24.6  | 25.7  | 27.0  | 28.2  | 29.5  | 30.7  |
| 32.5° | 18.4  | 19.0  | 19.0  | 19.6   | 20.3  | 20.9  | 22.1  | 23.4  | 24.6  | 25.7  | 26.4  |
| 35°   | 15.3  | 15.3  | 15.9  | 16.5   | 17.2  | 17.8  | 19.0  | 20.3  | 20.9  | 22.1  | 23.4  |
| 37.5° | 12.3  | 12.9  | 13.5  | 14.2   | 14.8  | 15.3  | 15.9  | 17.2  | 17.8  | 19.0  | 20.3  |
| 40°   | 10.4  | 11.1  | 11.7  | 12.3   | 12.3  | 13.5  | 13.5  | 14.8  | 15.3  | 16.5  | 17.8  |
| 42.5° | 8.6   | 9.2   | 9.8   | 10.4   | 10.4  | 11.1  | 11.7  | 12.3  | 13.5  | 14.2  | 15.3  |
| 45°   | 6.7   | 7.3   | 8.0   | 8.6    | 9.2   | 9.8   | 9.8   | 11.1  | 11.7  | 12.3  | 13.5  |
| 47.5° | 6.1   | 6.7   | 7.3   | 7.3    | 8.0   | 8.6   | 8.6   | 9.8   | 10.4  | 11.1  | 11.7  |
| 50°   | 5.0   | 5.5   | 6.1   | 6.7    | 6.7   | 7.3   | 8.0   | 8.6   | 9.2   | 9.8   | 9.8   |
| 52.5° | 4.3   | 5.0   | 5.5   | 5.5    | 6.1   | 6.7   | 6.7   | 7.3   | 8.0   | 8.0   | 8.6   |
| 55°   | 4.3   | 5.0   | 5.0   | 5.5    | 5.5   | 6.1   | 6.1   | 6.7   | 6.7   | 7.3   | 7.3   |
| 57.5° | 3.7   | 4.3   | 4.3   | 5.0    | 5.0   | 5.5   | 5.5   | 6.1   | 6.1   | 6.1   | 6.7   |
| 60°   | 3.7   | 3.7   | 4.3   | 4.3    | 5.0   | 5.0   | 5.0   | 5.5   | 5.5   | 5.5   | 6.1   |
| 62.5° | 3.1   | 3.7   | 3.7   | 4.3    | 4.3   | 4.3   | 5.0   | 5.0   | 5.0   | 5.5   | 5.5   |
| 65°   | 3.1   | 3.7   | 3.7   | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 5.0   | 5.0   | 5.0   |
| 67.5° | 3.1   | 3.1   | 3.7   | 3.7    | 3.7   | 3.7   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   |
| 70°   | 3.1   | 3.1   | 3.1   | 3.7    | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   |
| 72.5° | 2.5   | 3.1   | 3.1   | 3.1    | 3.1   | 3.7   | 3.7   | 3.7   | 3.7   | 3.7   | 3.1   |
| 75°   | 2.5   | 2.5   | 3.1   | 3.1    | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   |
| 77.5° | 2.5   | 2.5   | 2.5   | 3.1    | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 2.5   | 2.5   |
| 80°   | 2.5   | 2.5   | 2.5   | 2.5    | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 1.9   |
| 82.5° | 2.5   | 2.5   | 2.5   | 2.5    | 2.5   | 2.5   | 2.5   | 2.5   | 1.9   | 1.9   | 1.9   |
| 85°   | 2.5   | 1.9   | 2.5   | 2.5    | 2.5   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.2   |
| 87.5° | 1.9   | 1.9   | 1.9   | 1.9    | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.2   | 1.2   |
| 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: P1219465

CATALOG NUMBER: LDSQA4A15927D010TE LAR25NF 4LSQAL1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 136.3 | 136.3 | 136.3  | 136.3 | 136.3 | 136.3 | 136.3 | 136.3 |
| 2.5°  | 108.0 | 106.8 | 107.4  | 107.4 | 106.2 | 105.6 | 105.6 | 106.2 |
| 5°    | 93.4  | 92.1  | 92.7   | 92.7  | 91.5  | 90.9  | 90.9  | 91.5  |
| 7.5°  | 82.3  | 81.1  | 81.7   | 81.7  | 80.4  | 80.4  | 80.4  | 80.4  |
| 10°   | 73.7  | 73.1  | 73.1   | 73.1  | 71.9  | 72.5  | 71.9  | 71.2  |
| 12.5° | 65.7  | 65.7  | 65.7   | 65.7  | 65.0  | 65.7  | 65.0  | 65.0  |
| 15°   | 59.6  | 59.6  | 60.2   | 60.2  | 60.2  | 60.8  | 60.8  | 60.8  |
| 17.5° | 54.6  | 55.2  | 55.8   | 56.5  | 56.5  | 57.1  | 57.1  | 57.1  |
| 20°   | 49.7  | 51.0  | 51.6   | 52.2  | 52.2  | 53.5  | 52.8  | 53.5  |
| 22.5° | 44.8  | 46.0  | 46.6   | 47.3  | 47.9  | 48.5  | 48.5  | 49.1  |
| 25°   | 40.5  | 41.8  | 42.4   | 43.0  | 43.6  | 44.8  | 44.8  | 44.8  |
| 27.5° | 36.2  | 37.4  | 38.1   | 39.3  | 39.9  | 41.2  | 41.2  | 41.2  |
| 30°   | 31.9  | 33.2  | 33.8   | 34.4  | 35.6  | 36.8  | 36.8  | 37.4  |
| 32.5° | 27.6  | 29.5  | 30.1   | 30.7  | 31.9  | 33.2  | 33.8  | 33.8  |
| 35°   | 24.6  | 25.7  | 26.4   | 27.6  | 28.2  | 30.1  | 30.1  | 30.1  |
| 37.5° | 21.5  | 22.7  | 24.0   | 24.6  | 25.1  | 26.4  | 27.0  | 27.6  |
| 40°   | 19.0  | 20.3  | 20.9   | 21.5  | 22.7  | 24.0  | 24.6  | 24.6  |
| 42.5° | 16.5  | 17.8  | 18.4   | 19.0  | 19.6  | 20.9  | 20.9  | 20.9  |
| 45°   | 14.8  | 15.3  | 15.9   | 16.5  | 17.2  | 17.8  | 18.4  | 18.4  |
| 47.5° | 12.3  | 13.5  | 13.5   | 14.2  | 14.8  | 15.9  | 15.9  | 16.5  |
| 50°   | 10.4  | 11.7  | 11.7   | 12.3  | 12.9  | 13.5  | 14.2  | 14.2  |
| 52.5° | 9.2   | 9.8   | 10.4   | 10.4  | 11.1  | 11.7  | 12.3  | 12.3  |
| 55°   | 8.0   | 8.6   | 8.6    | 9.2   | 9.2   | 9.8   | 10.4  | 10.4  |
| 57.5° | 6.7   | 7.3   | 8.0    | 8.0   | 8.0   | 8.6   | 8.6   | 9.2   |
| 60°   | 6.1   | 6.7   | 6.7    | 6.7   | 6.7   | 7.3   | 7.3   | 7.3   |
| 62.5° | 5.5   | 5.5   | 5.5    | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 65°   | 5.0   | 5.0   | 5.0    | 5.0   | 4.3   | 4.3   | 4.3   | 4.3   |
| 67.5° | 4.3   | 4.3   | 4.3    | 4.3   | 3.7   | 3.7   | 3.7   | 3.7   |
| 70°   | 3.7   | 3.7   | 3.7    | 3.7   | 3.1   | 3.1   | 3.1   | 2.5   |
| 72.5° | 3.1   | 3.1   | 3.1    | 3.1   | 3.1   | 2.5   | 2.5   | 2.5   |
| 75°   | 3.1   | 2.5   | 2.5    | 2.5   | 2.5   | 2.5   | 1.9   | 1.9   |
| 77.5° | 2.5   | 2.5   | 2.5    | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   |
| 80°   | 1.9   | 1.9   | 1.9    | 1.9   | 1.9   | 1.2   | 1.2   | 1.2   |
| 82.5° | 1.9   | 1.2   | 1.2    | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 85°   | 1.2   | 1.2   | 1.2    | 1.2   | 0.6   | 0.6   | 0.6   | 0.6   |
| 87.5° | 1.2   | 0.6   | 0.6    | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 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

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Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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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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