

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: P1212278

Luminaire Tested: **LDSQA4A25940D010TE LAR25NF 4LSQA1H 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: P1212278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26800)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA4A25940D010TE LAR25NF 4LSQA1H 30°  
Description: PORTFOLIO 4" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 25° NARROW FLOOD, 30° Tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

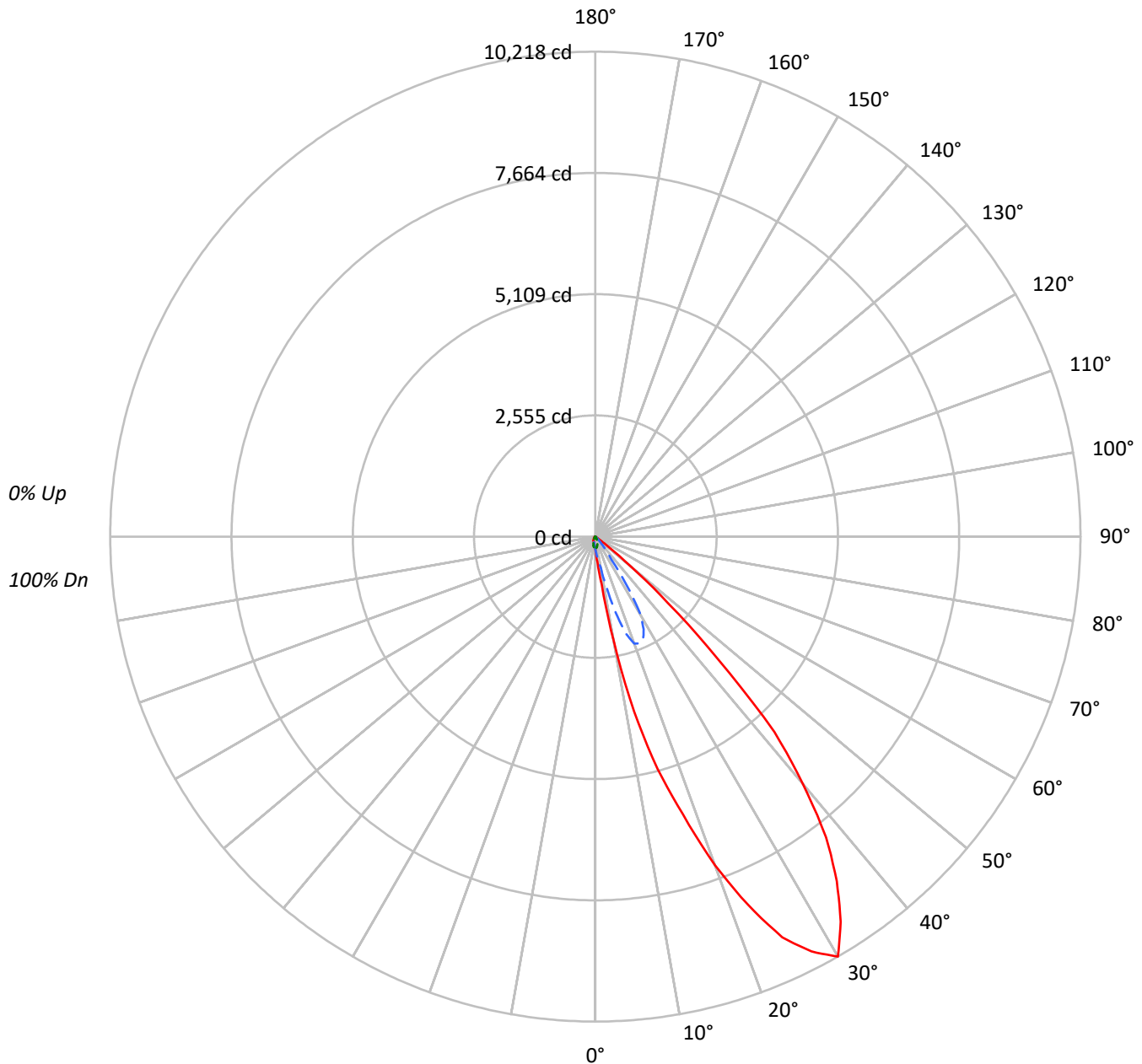
Lumens per Lamp: N/A  
Luminaire Lumens: 2461.6 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 2.38 / 0.59 / 1.18  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.9  
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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 113 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 84  | 83  |    |    |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 75  |    |    |
| 4   | 93  | 84  | 77  | 72  | 91  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |    |
| 5   | 87  | 77  | 70  | 64  | 85  | 76  | 69  | 64  | 74  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |
| 7   | 76  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 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  | 38  | 37  |    |    |

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

|     | 0°      | 90°   | 180°  |
|-----|---------|-------|-------|
| 0°  | 24897   | 24897 | 24897 |
| 5°  | 55119   | 23553 | 16551 |
| 10° | 220634  | 20461 | 13831 |
| 15° | 508575  | 16267 | 12145 |
| 20° | 759185  | 11546 | 10835 |
| 25° | 995757  | 7696  | 9641  |
| 30° | 1143052 | 4866  | 8434  |
| 35° | 1048059 | 3098  | 7297  |
| 40° | 859460  | 2011  | 6222  |
| 45° | 498265  | 1411  | 5001  |
| 50° | 141202  | 1040  | 4129  |
| 55° | 12938   | 963   | 3462  |
| 60° | 1996    | 1104  | 2868  |
| 65° | 527     | 1054  | 2109  |
| 70° | 651     | 1303  | 1614  |
| 75° | 861     | 1722  | 1722  |
| 80° | 0       | 2566  | 1283  |
| 85° | 0       | 5113  | 1223  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.5   | 1.5       |
| 10°-20°   | 327.4  | 13.3      |
| 20°-30°   | 797.6  | 32.4      |
| 30°-40°   | 864.4  | 35.1      |
| 40°-50°   | 391.7  | 15.9      |
| 50°-60°   | 30.3   | 1.2       |
| 60°-70°   | 6.3    | 0.3       |
| 70°-80°   | 4.6    | 0.2       |
| 80°-90°   | 2.9    | 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°    | 1161.5 | 47.2      |
| 0°-40°    | 2025.9 | 82.3      |
| 0°-60°    | 2447.8 | 99.4      |
| 0°-90°    | 2461.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2461.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 257  | 257  | 257 | 257  | 257  |      |
| 5°  | 567  | 418  | 242 | 183  | 170  | 102  |
| 15° | 5071 | 1659 | 162 | 118  | 121  | 1474 |
| 25° | 9316 | 2382 | 72  | 71   | 90   | 4246 |
| 35° | 8862 | 606  | 26  | 41   | 62   | 5451 |
| 45° | 3637 | 77   | 10  | 23   | 36   | 2871 |
| 55° | 77   | 10   | 6   | 14   | 20   | 175  |
| 65° | 2    | 3    | 5   | 9    | 9    | 4    |
| 75° | 2    | 3    | 5   | 7    | 5    | 2    |
| 85° | 0    | 3    | 5   | 3    | 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°    | 257.0   | 257.0  | 257.0  | 257.0  | 257.0  | 257.0  | 257.0  | 257.0  | 257.0  | 257.0  | 257.0  |
| 2.5°  | 385.0   | 378.2  | 381.6  | 372.5  | 366.8  | 362.2  | 364.5  | 362.2  | 347.3  | 344.0  | 332.5  |
| 5°    | 566.8   | 556.5  | 556.5  | 537.0  | 516.4  | 503.9  | 503.9  | 489.1  | 457.0  | 442.2  | 418.2  |
| 7.5°  | 1015.8  | 995.1  | 978.0  | 917.5  | 838.6  | 794.2  | 782.7  | 719.9  | 638.8  | 587.3  | 526.7  |
| 10°   | 2242.9  | 2157.2 | 2096.7 | 1939.0 | 1727.6 | 1596.2 | 1540.3 | 1323.2 | 1064.8 | 870.7  | 694.7  |
| 12.5° | 3771.8  | 3655.3 | 3549.0 | 3290.8 | 2986.8 | 2780.0 | 2669.1 | 2349.2 | 1847.6 | 1488.8 | 1114.0 |
| 15°   | 5070.9  | 4945.2 | 4819.5 | 4505.3 | 4184.3 | 4004.9 | 3801.4 | 3377.6 | 2714.9 | 2205.3 | 1659.0 |
| 17.5° | 6137.0  | 6066.1 | 5937.0 | 5476.5 | 5072.1 | 4792.1 | 4580.7 | 4026.6 | 3344.4 | 2762.8 | 2144.6 |
| 20°   | 7364.1  | 7189.3 | 6958.5 | 6399.8 | 5846.7 | 5495.9 | 5198.8 | 4523.6 | 3735.2 | 3066.8 | 2401.8 |
| 22.5° | 8397.1  | 8272.5 | 7941.2 | 7204.2 | 6390.7 | 6091.3 | 5727.9 | 4915.6 | 3986.6 | 3195.8 | 2431.5 |
| 25°   | 9315.7  | 9120.4 | 8704.4 | 7828.0 | 6995.1 | 6485.5 | 6039.9 | 5128.0 | 4079.1 | 3205.0 | 2382.3 |
| 27.5° | 9853.8  | 9599.1 | 9110.0 | 8154.8 | 7204.2 | 6640.8 | 6147.2 | 5164.6 | 4020.8 | 3083.9 | 2203.0 |
| 30°   | 10218.4 | 9711.1 | 9170.6 | 8158.3 | 7137.9 | 6562.1 | 6050.1 | 4980.6 | 3778.6 | 2807.4 | 1901.3 |
| 32.5° | 9617.3  | 9323.7 | 8807.2 | 7833.8 | 6776.8 | 6214.6 | 5706.2 | 4581.9 | 3400.4 | 2397.2 | 1323.2 |
| 35°   | 8862.1  | 8624.5 | 8175.4 | 7208.8 | 6235.2 | 5705.1 | 5165.7 | 4070.0 | 2907.9 | 1647.6 | 605.5  |
| 37.5° | 7984.5  | 7798.4 | 7315.0 | 6431.8 | 5574.9 | 5056.0 | 4515.6 | 3469.0 | 2047.6 | 817.0  | 367.9  |
| 40°   | 6796.2  | 6638.6 | 6242.2 | 5532.5 | 4743.0 | 4249.4 | 3751.2 | 2594.9 | 1111.8 | 455.9  | 240.0  |
| 42.5° | 5586.3  | 5453.7 | 5092.6 | 4479.0 | 3785.4 | 3378.7 | 2939.9 | 1581.4 | 553.0  | 286.8  | 133.7  |
| 45°   | 3636.9  | 3471.3 | 3277.0 | 2996.0 | 2653.2 | 2403.0 | 1885.4 | 763.3  | 327.9  | 159.9  | 76.6   |
| 47.5° | 2085.2  | 1975.6 | 1656.7 | 1307.2 | 1061.4 | 968.9  | 705.1  | 355.4  | 180.5  | 92.5   | 46.9   |
| 50°   | 936.9   | 866.2  | 726.7  | 591.9  | 428.5  | 334.8  | 284.5  | 178.2  | 89.1   | 50.3   | 32.0   |
| 52.5° | 230.8   | 235.4  | 222.8  | 195.4  | 173.7  | 147.4  | 128.0  | 83.4   | 46.9   | 30.8   | 20.5   |
| 55°   | 76.6    | 77.7   | 70.9   | 67.4   | 61.7   | 57.1   | 52.6   | 37.8   | 28.5   | 27.4   | 10.3   |
| 57.5° | 27.4    | 27.4   | 28.5   | 26.2   | 25.1   | 24.0   | 22.8   | 19.4   | 17.1   | 10.3   | 5.7    |
| 60°   | 10.3    | 10.3   | 10.3   | 11.4   | 11.4   | 11.4   | 12.6   | 11.4   | 8.0    | 5.7    | 4.6    |
| 62.5° | 4.6     | 4.6    | 4.6    | 4.6    | 5.7    | 5.7    | 6.9    | 5.7    | 4.6    | 4.6    | 3.4    |
| 65°   | 2.3     | 2.3    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 67.5° | 2.3     | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 3.4    | 3.4    |
| 70°   | 2.3     | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 3.4    | 3.4    |
| 72.5° | 2.3     | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 3.4    | 3.4    |
| 75°   | 2.3     | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 3.4    |
| 77.5° | 0.0     | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3    | 2.3    | 2.3    | 3.4    |
| 80°   | 0.0     | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3    | 2.3    | 2.3    | 3.4    |
| 82.5° | 0.0     | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3    | 2.3    | 2.3    | 3.4    |
| 85°   | 0.0     | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3    | 2.3    | 3.4    |
| 87.5° | 0.0     | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 2.3    | 2.3    | 2.3    |
| 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°    | 257.0  | 257.0  | 257.0 | 257.0 | 257.0 | 257.0 | 257.0 | 257.0 | 257.0 | 257.0 | 257.0 |
| 2.5°  | 321.0  | 314.2  | 300.5 | 290.2 | 282.2 | 281.1 | 274.3 | 262.8 | 258.2 | 250.2 | 243.3 |
| 5°    | 395.3  | 378.2  | 356.5 | 336.0 | 321.0 | 313.0 | 289.1 | 267.4 | 254.8 | 242.2 | 230.8 |
| 7.5°  | 475.3  | 436.5  | 398.8 | 365.7 | 345.1 | 332.5 | 303.9 | 268.6 | 245.6 | 227.4 | 212.6 |
| 10°   | 575.9  | 495.9  | 430.8 | 379.3 | 351.9 | 334.8 | 300.5 | 258.2 | 229.7 | 208.0 | 193.1 |
| 12.5° | 805.5  | 587.3  | 460.5 | 386.2 | 351.9 | 327.9 | 286.8 | 244.5 | 212.6 | 186.3 | 170.2 |
| 15°   | 1198.6 | 820.4  | 546.1 | 389.6 | 340.6 | 313.0 | 266.3 | 221.6 | 189.7 | 162.2 | 147.4 |
| 17.5° | 1568.8 | 1079.8 | 682.1 | 413.7 | 333.7 | 291.4 | 238.8 | 195.4 | 162.2 | 136.0 | 123.4 |
| 20°   | 1760.8 | 1208.9 | 757.5 | 431.9 | 322.2 | 264.0 | 206.8 | 166.8 | 134.8 | 112.0 | 101.7 |
| 22.5° | 1765.3 | 1197.4 | 721.0 | 389.6 | 280.0 | 226.2 | 177.0 | 137.1 | 109.6 | 90.2  | 82.2  |
| 25°   | 1656.7 | 1059.2 | 593.0 | 303.9 | 226.2 | 189.7 | 147.4 | 112.0 | 85.7  | 72.0  | 66.3  |
| 27.5° | 1452.3 | 857.0  | 437.7 | 219.4 | 177.0 | 150.8 | 115.5 | 85.7  | 65.1  | 56.0  | 52.6  |
| 30°   | 1123.2 | 530.2  | 242.2 | 162.2 | 133.7 | 113.2 | 83.4  | 57.1  | 49.2  | 43.5  | 41.2  |
| 32.5° | 557.6  | 259.4  | 171.4 | 115.5 | 91.4  | 72.0  | 52.6  | 42.3  | 37.8  | 34.2  | 33.1  |
| 35°   | 302.8  | 186.3  | 107.4 | 69.7  | 54.8  | 45.8  | 35.4  | 29.7  | 27.4  | 26.2  | 26.2  |
| 37.5° | 211.4  | 110.9  | 65.1  | 42.3  | 34.2  | 30.8  | 25.1  | 21.7  | 20.5  | 20.5  | 20.5  |
| 40°   | 116.6  | 66.3   | 40.0  | 27.4  | 22.8  | 20.5  | 17.1  | 15.9  | 15.9  | 15.9  | 17.1  |
| 42.5° | 67.4   | 41.2   | 27.4  | 19.4  | 15.9  | 14.8  | 12.6  | 11.4  | 12.6  | 12.6  | 13.7  |
| 45°   | 43.5   | 30.8   | 18.2  | 13.7  | 11.4  | 10.3  | 9.2   | 9.2   | 10.3  | 10.3  | 11.4  |
| 47.5° | 30.8   | 21.7   | 12.6  | 9.2   | 6.9   | 6.9   | 6.9   | 6.9   | 8.0   | 9.2   | 10.3  |
| 50°   | 18.2   | 11.4   | 6.9   | 5.7   | 4.6   | 4.6   | 4.6   | 5.7   | 6.9   | 6.9   | 8.0   |
| 52.5° | 10.3   | 6.9    | 4.6   | 4.6   | 3.4   | 3.4   | 4.6   | 4.6   | 5.7   | 6.9   | 8.0   |
| 55°   | 5.7    | 4.6    | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 4.6   | 4.6   | 5.7   | 6.9   |
| 57.5° | 4.6    | 3.4    | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 4.6   | 4.6   | 5.7   | 5.7   |
| 60°   | 3.4    | 3.4    | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   | 4.6   | 4.6   | 5.7   | 5.7   |
| 62.5° | 3.4    | 3.4    | 3.4   | 3.4   | 3.4   | 3.4   | 4.6   | 4.6   | 4.6   | 4.6   | 5.7   |
| 65°   | 3.4    | 3.4    | 3.4   | 4.6   | 3.4   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 5.7   |
| 67.5° | 3.4    | 3.4    | 3.4   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 5.7   |
| 70°   | 3.4    | 3.4    | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 5.7   |
| 72.5° | 3.4    | 3.4    | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 5.7   |
| 75°   | 3.4    | 3.4    | 3.4   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   |
| 77.5° | 3.4    | 3.4    | 3.4   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   |
| 80°   | 3.4    | 3.4    | 3.4   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   |
| 82.5° | 3.4    | 3.4    | 3.4   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   |
| 85°   | 3.4    | 3.4    | 3.4   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   |
| 87.5° | 3.4    | 3.4    | 3.4   | 3.4   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 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):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 257.0 | 257.0 | 257.0 | 257.0  | 257.0 | 257.0 | 257.0 | 257.0 | 257.0 | 257.0 | 257.0 |
| 2.5°  | 241.1 | 233.1 | 227.4 | 225.1  | 220.5 | 221.6 | 218.2 | 215.9 | 209.1 | 209.1 | 204.6 |
| 5°    | 222.8 | 212.6 | 205.7 | 202.3  | 197.7 | 196.6 | 193.1 | 189.7 | 182.8 | 181.6 | 178.2 |
| 7.5°  | 203.4 | 193.1 | 185.2 | 181.6  | 177.0 | 175.9 | 171.4 | 169.1 | 163.4 | 162.2 | 158.8 |
| 10°   | 182.8 | 171.4 | 164.5 | 161.1  | 156.5 | 156.5 | 153.1 | 150.8 | 146.3 | 146.3 | 144.0 |
| 12.5° | 161.1 | 150.8 | 146.3 | 141.7  | 139.4 | 139.4 | 137.1 | 134.8 | 131.4 | 132.6 | 131.4 |
| 15°   | 138.3 | 130.3 | 125.7 | 123.4  | 122.3 | 122.3 | 121.1 | 120.0 | 117.8 | 120.0 | 117.8 |
| 17.5° | 116.6 | 110.9 | 107.4 | 106.2  | 105.1 | 105.1 | 105.1 | 106.2 | 105.1 | 107.4 | 107.4 |
| 20°   | 96.0  | 91.4  | 89.1  | 89.1   | 87.9  | 90.2  | 90.2  | 92.5  | 92.5  | 96.0  | 97.1  |
| 22.5° | 78.9  | 75.4  | 74.3  | 74.3   | 74.3  | 76.6  | 77.7  | 80.0  | 81.1  | 84.5  | 86.8  |
| 25°   | 62.8  | 61.7  | 61.7  | 61.7   | 62.8  | 65.1  | 67.4  | 69.7  | 70.9  | 75.4  | 76.6  |
| 27.5° | 51.5  | 50.3  | 51.5  | 51.5   | 52.6  | 56.0  | 58.3  | 60.6  | 62.8  | 66.3  | 68.6  |
| 30°   | 41.2  | 41.2  | 42.3  | 43.5   | 44.6  | 46.9  | 50.3  | 52.6  | 54.8  | 58.3  | 60.6  |
| 32.5° | 33.1  | 34.2  | 35.4  | 36.5   | 36.5  | 40.0  | 42.3  | 45.8  | 46.9  | 50.3  | 52.6  |
| 35°   | 27.4  | 28.5  | 29.7  | 30.8   | 30.8  | 34.2  | 36.5  | 38.9  | 41.2  | 43.5  | 45.8  |
| 37.5° | 21.7  | 22.8  | 25.1  | 26.2   | 26.2  | 29.7  | 30.8  | 33.1  | 35.4  | 37.8  | 40.0  |
| 40°   | 18.2  | 19.4  | 21.7  | 21.7   | 22.8  | 25.1  | 26.2  | 28.5  | 30.8  | 33.1  | 35.4  |
| 42.5° | 14.8  | 15.9  | 18.2  | 19.4   | 19.4  | 21.7  | 22.8  | 25.1  | 26.2  | 28.5  | 29.7  |
| 45°   | 13.7  | 13.7  | 15.9  | 15.9   | 17.1  | 18.2  | 20.5  | 21.7  | 22.8  | 25.1  | 26.2  |
| 47.5° | 11.4  | 12.6  | 13.7  | 14.8   | 14.8  | 15.9  | 17.1  | 18.2  | 19.4  | 21.7  | 22.8  |
| 50°   | 9.2   | 10.3  | 12.6  | 12.6   | 12.6  | 14.8  | 15.9  | 17.1  | 17.1  | 18.2  | 19.4  |
| 52.5° | 9.2   | 9.2   | 10.3  | 11.4   | 11.4  | 12.6  | 13.7  | 14.8  | 14.8  | 15.9  | 17.1  |
| 55°   | 8.0   | 8.0   | 9.2   | 10.3   | 10.3  | 11.4  | 12.6  | 12.6  | 13.7  | 13.7  | 14.8  |
| 57.5° | 6.9   | 8.0   | 9.2   | 9.2    | 9.2   | 10.3  | 11.4  | 11.4  | 12.6  | 12.6  | 13.7  |
| 60°   | 6.9   | 8.0   | 8.0   | 9.2    | 9.2   | 10.3  | 10.3  | 10.3  | 11.4  | 11.4  | 11.4  |
| 62.5° | 6.9   | 6.9   | 8.0   | 8.0    | 8.0   | 9.2   | 9.2   | 10.3  | 10.3  | 10.3  | 10.3  |
| 65°   | 6.9   | 6.9   | 8.0   | 8.0    | 8.0   | 9.2   | 9.2   | 9.2   | 9.2   | 9.2   | 9.2   |
| 67.5° | 5.7   | 6.9   | 6.9   | 6.9    | 8.0   | 8.0   | 8.0   | 8.0   | 8.0   | 8.0   | 8.0   |
| 70°   | 5.7   | 5.7   | 6.9   | 6.9    | 6.9   | 8.0   | 8.0   | 8.0   | 8.0   | 8.0   | 8.0   |
| 72.5° | 5.7   | 5.7   | 6.9   | 6.9    | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   | 6.9   |
| 75°   | 5.7   | 5.7   | 5.7   | 5.7    | 5.7   | 6.9   | 6.9   | 6.9   | 6.9   | 5.7   | 5.7   |
| 77.5° | 4.6   | 5.7   | 5.7   | 5.7    | 5.7   | 5.7   | 5.7   | 5.7   | 5.7   | 5.7   | 4.6   |
| 80°   | 4.6   | 4.6   | 5.7   | 4.6    | 5.7   | 5.7   | 5.7   | 5.7   | 4.6   | 4.6   | 4.6   |
| 82.5° | 4.6   | 4.6   | 4.6   | 4.6    | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 3.4   | 3.4   |
| 85°   | 4.6   | 4.6   | 4.6   | 4.6    | 4.6   | 4.6   | 4.6   | 3.4   | 3.4   | 3.4   | 2.3   |
| 87.5° | 4.6   | 4.6   | 4.6   | 4.6    | 4.6   | 4.6   | 3.4   | 3.4   | 3.4   | 2.3   | 2.3   |
| 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: P1212278

CATALOG NUMBER: LDSQA4A25940D010TE LAR25NF 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 257.0 | 257.0 | 257.0  | 257.0 | 257.0 | 257.0 | 257.0 | 257.0 |
| 2.5°  | 202.3 | 204.6 | 202.3  | 204.6 | 198.8 | 201.1 | 203.4 | 197.7 |
| 5°    | 175.9 | 173.7 | 174.8  | 177.0 | 172.5 | 173.7 | 174.8 | 170.2 |
| 7.5°  | 157.7 | 158.8 | 156.5  | 158.8 | 155.4 | 156.5 | 157.7 | 154.2 |
| 10°   | 142.9 | 144.0 | 142.9  | 144.0 | 140.6 | 142.9 | 144.0 | 140.6 |
| 12.5° | 129.1 | 131.4 | 130.3  | 132.6 | 129.1 | 131.4 | 133.7 | 129.1 |
| 15°   | 118.8 | 121.1 | 120.0  | 122.3 | 120.0 | 122.3 | 124.6 | 121.1 |
| 17.5° | 108.5 | 110.9 | 110.9  | 113.2 | 112.0 | 114.3 | 116.6 | 113.2 |
| 20°   | 98.2  | 101.7 | 101.7  | 104.0 | 104.0 | 105.1 | 108.5 | 105.1 |
| 22.5° | 89.1  | 92.5  | 92.5   | 94.8  | 94.8  | 97.1  | 99.4  | 97.1  |
| 25°   | 78.9  | 83.4  | 84.5   | 86.8  | 86.8  | 89.1  | 92.5  | 90.2  |
| 27.5° | 72.0  | 75.4  | 76.6   | 78.9  | 80.0  | 82.2  | 84.5  | 82.2  |
| 30°   | 62.8  | 67.4  | 68.6   | 70.9  | 72.0  | 75.4  | 76.6  | 75.4  |
| 32.5° | 56.0  | 59.4  | 60.6   | 62.8  | 65.1  | 67.4  | 69.7  | 68.6  |
| 35°   | 49.2  | 52.6  | 53.7   | 56.0  | 57.1  | 60.6  | 62.8  | 61.7  |
| 37.5° | 43.5  | 46.9  | 48.0   | 49.2  | 50.3  | 53.7  | 56.0  | 54.8  |
| 40°   | 37.8  | 40.0  | 41.2   | 43.5  | 44.6  | 46.9  | 49.2  | 49.2  |
| 42.5° | 33.1  | 35.4  | 36.5   | 37.8  | 38.9  | 41.2  | 43.5  | 42.3  |
| 45°   | 28.5  | 30.8  | 32.0   | 33.1  | 34.2  | 35.4  | 37.8  | 36.5  |
| 47.5° | 24.0  | 26.2  | 27.4   | 28.5  | 29.7  | 30.8  | 33.1  | 32.0  |
| 50°   | 20.5  | 22.8  | 22.8   | 24.0  | 25.1  | 26.2  | 28.5  | 27.4  |
| 52.5° | 18.2  | 19.4  | 20.5   | 20.5  | 21.7  | 22.8  | 25.1  | 24.0  |
| 55°   | 15.9  | 17.1  | 17.1   | 18.2  | 18.2  | 19.4  | 20.5  | 20.5  |
| 57.5° | 13.7  | 14.8  | 14.8   | 15.9  | 15.9  | 17.1  | 18.2  | 18.2  |
| 60°   | 12.6  | 12.6  | 13.7   | 13.7  | 13.7  | 14.8  | 14.8  | 14.8  |
| 62.5° | 11.4  | 11.4  | 11.4   | 11.4  | 11.4  | 11.4  | 11.4  | 11.4  |
| 65°   | 9.2   | 9.2   | 9.2    | 9.2   | 9.2   | 9.2   | 9.2   | 9.2   |
| 67.5° | 8.0   | 8.0   | 8.0    | 8.0   | 8.0   | 6.9   | 6.9   | 6.9   |
| 70°   | 6.9   | 6.9   | 6.9    | 6.9   | 6.9   | 5.7   | 5.7   | 5.7   |
| 72.5° | 6.9   | 6.9   | 5.7    | 5.7   | 5.7   | 5.7   | 5.7   | 4.6   |
| 75°   | 5.7   | 5.7   | 5.7    | 5.7   | 4.6   | 4.6   | 4.6   | 4.6   |
| 77.5° | 4.6   | 4.6   | 4.6    | 4.6   | 3.4   | 3.4   | 3.4   | 3.4   |
| 80°   | 4.6   | 3.4   | 3.4    | 3.4   | 3.4   | 3.4   | 3.4   | 2.3   |
| 82.5° | 3.4   | 3.4   | 3.4    | 2.3   | 2.3   | 2.3   | 2.3   | 2.3   |
| 85°   | 2.3   | 2.3   | 2.3    | 2.3   | 1.1   | 1.1   | 1.1   | 1.1   |
| 87.5° | 2.3   | 1.1   | 1.1    | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 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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Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269

Scaled Data Report



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(END OF REPORT)