

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: P1219567

Luminaire Tested: **LDSQA4A30950D010TE 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: P1219567  
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: LDSQA4A30950D010TE 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**

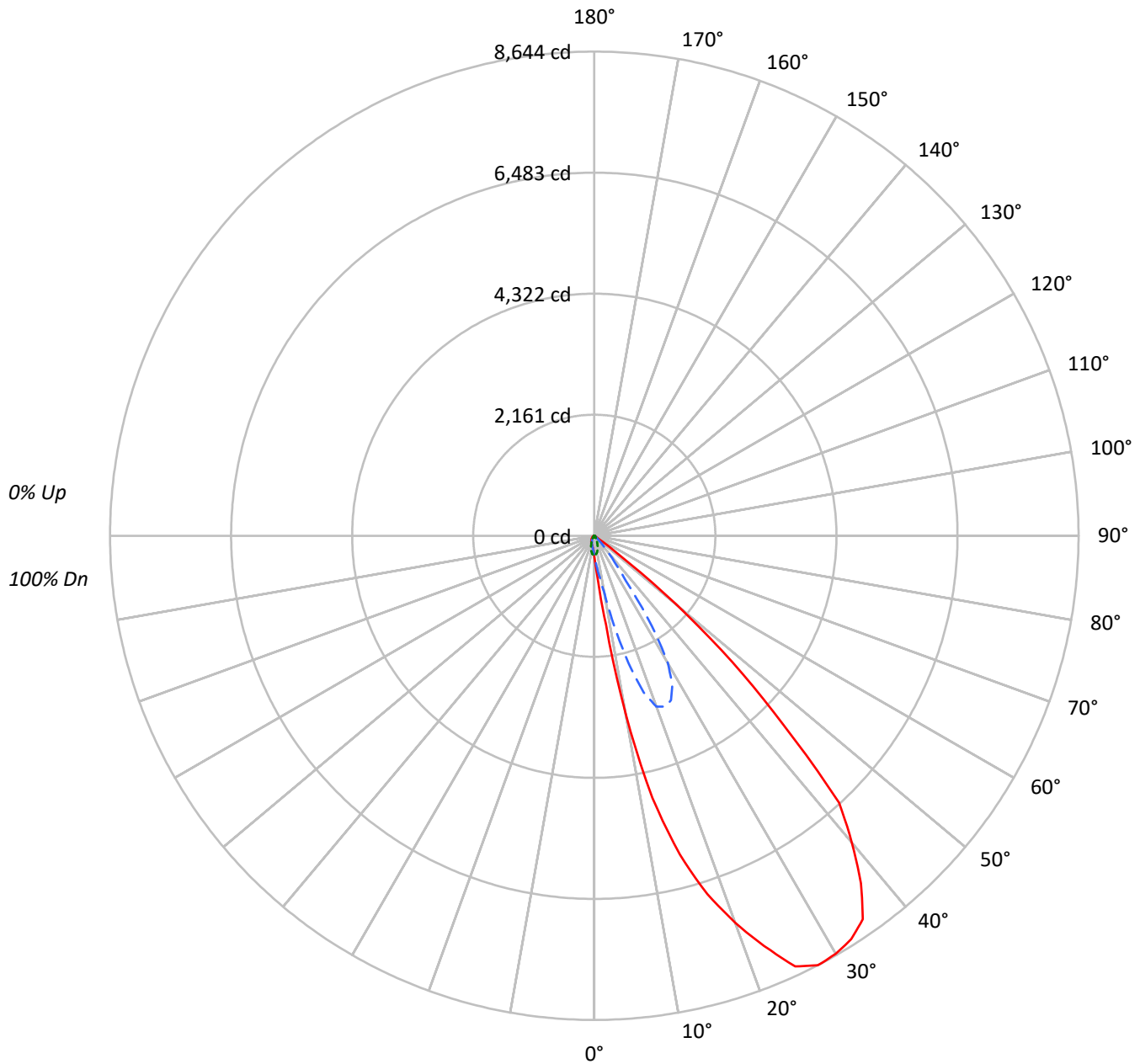
Lumens per Lamp: N/A  
Luminaire Lumens: 2879.0 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Spacing Criteria (0/90/45): 2.46 / 0.61 / 1.2  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 39.8  
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 | 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°  | 34488  | 34488 | 34488 |
| 5°  | 80821  | 32548 | 22755 |
| 10° | 319348 | 28606 | 18966 |
| 15° | 591026 | 22907 | 16649 |
| 20° | 757824 | 16670 | 15062 |
| 25° | 906707 | 11822 | 13340 |
| 30° | 964117 | 7774  | 11734 |
| 35° | 988076 | 4695  | 10230 |
| 40° | 904493 | 3048  | 8789  |
| 45° | 652666 | 2137  | 7193  |
| 50° | 284920 | 1718  | 5983  |
| 55° | 19660  | 1419  | 5016  |
| 60° | 3565   | 1376  | 4127  |
| 65° | 1284   | 1284  | 2934  |
| 70° | 1218   | 1586  | 2011  |
| 75° | 1048   | 2096  | 2096  |
| 80° | 0      | 3124  | 2399  |
| 85° | 0      | 6225  | 1667  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.9   | 1.8       |
| 10°-20°   | 407.5  | 14.2      |
| 20°-30°   | 853.1  | 29.6      |
| 30°-40°   | 949.6  | 33.0      |
| 40°-50°   | 545.1  | 18.9      |
| 50°-60°   | 54.4   | 1.9       |
| 60°-70°   | 8.5    | 0.3       |
| 70°-80°   | 5.4    | 0.2       |
| 80°-90°   | 3.3    | 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°    | 1312.5 | 45.6      |
| 0°-40°    | 2262.1 | 78.6      |
| 0°-60°    | 2861.7 | 99.4      |
| 0°-90°    | 2879.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2879.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 356  | 356  | 356 | 356  | 356  |      |
| 5°  | 831  | 573  | 335 | 244  | 234  | 152  |
| 15° | 5893 | 2353 | 228 | 160  | 166  | 1666 |
| 25° | 8483 | 3238 | 111 | 98   | 125  | 3841 |
| 35° | 8355 | 989  | 40  | 57   | 86   | 5102 |
| 45° | 4764 | 119  | 16  | 31   | 52   | 3637 |
| 55° | 116  | 17   | 8   | 18   | 30   | 347  |
| 65° | 6    | 4    | 6   | 11   | 13   | 7    |
| 75° | 3    | 3    | 6   | 7    | 6    | 2    |
| 85° | 0    | 3    | 6   | 4    | 2    | 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°    | 356.0  | 356.0  | 356.0  | 356.0  | 356.0  | 356.0  | 356.0  | 356.0  | 356.0  | 356.0  | 356.0  |
| 2.5°  | 531.9  | 520.5  | 509.2  | 502.0  | 495.0  | 504.8  | 497.8  | 495.0  | 475.2  | 465.2  | 456.7  |
| 5°    | 831.1  | 809.8  | 778.5  | 753.1  | 727.6  | 733.2  | 713.3  | 689.2  | 639.7  | 604.1  | 573.0  |
| 7.5°  | 1604.0 | 1551.6 | 1455.2 | 1361.6 | 1268.0 | 1250.9 | 1188.5 | 1080.7 | 941.7  | 836.8  | 746.0  |
| 10°   | 3246.4 | 3087.6 | 2910.2 | 2718.9 | 2494.8 | 2432.4 | 2277.8 | 1985.6 | 1666.4 | 1302.0 | 1038.1 |
| 12.5° | 4792.3 | 4719.9 | 4511.5 | 4263.3 | 4020.8 | 3871.8 | 3711.7 | 3229.3 | 2723.0 | 2136.0 | 1645.2 |
| 15°   | 5893.0 | 5849.0 | 5666.0 | 5440.4 | 5179.4 | 5083.1 | 4887.3 | 4406.5 | 3766.9 | 3064.9 | 2352.9 |
| 17.5° | 6708.4 | 6633.2 | 6441.8 | 6196.3 | 5887.1 | 5805.0 | 5571.0 | 5093.0 | 4429.3 | 3724.3 | 2934.4 |
| 20°   | 7350.9 | 7304.1 | 7055.9 | 6760.9 | 6390.7 | 6291.5 | 6017.8 | 5519.9 | 4798.0 | 4049.1 | 3245.0 |
| 22.5° | 7928.1 | 7848.7 | 7543.7 | 7192.0 | 6769.4 | 6663.1 | 6358.0 | 5812.0 | 5036.2 | 4202.3 | 3300.3 |
| 25°   | 8482.6 | 8362.1 | 7992.0 | 7531.1 | 7034.7 | 6890.0 | 6555.2 | 5976.6 | 5124.2 | 4215.1 | 3237.9 |
| 27.5° | 8644.3 | 8583.3 | 8241.6 | 7705.5 | 7131.0 | 6968.0 | 6619.1 | 6013.5 | 5091.5 | 4098.7 | 3013.8 |
| 30°   | 8618.8 | 8567.8 | 8282.7 | 7722.5 | 7114.1 | 6942.4 | 6587.8 | 5900.0 | 4901.5 | 3795.3 | 2618.1 |
| 32.5° | 8538.0 | 8518.1 | 8173.6 | 7574.9 | 6955.2 | 6768.0 | 6385.0 | 5617.7 | 4545.5 | 3332.9 | 1913.2 |
| 35°   | 8354.9 | 8277.0 | 7847.3 | 7284.3 | 6688.6 | 6482.8 | 6050.3 | 5213.5 | 4076.1 | 2426.6 | 988.6  |
| 37.5° | 7818.8 | 7758.0 | 7418.9 | 6925.4 | 6345.4 | 6081.5 | 5624.8 | 4691.6 | 3155.7 | 1379.9 | 591.3  |
| 40°   | 7152.3 | 7122.5 | 6855.9 | 6414.8 | 5795.0 | 5497.2 | 5000.8 | 3839.3 | 1926.1 | 784.4  | 390.0  |
| 42.5° | 6468.7 | 6460.2 | 6175.1 | 5714.2 | 5041.9 | 4700.1 | 4185.4 | 2589.8 | 1024.0 | 473.7  | 225.5  |
| 45°   | 4763.9 | 4815.0 | 4616.5 | 4339.9 | 3826.5 | 3578.2 | 2910.2 | 1334.5 | 590.0  | 262.4  | 119.2  |
| 47.5° | 3341.4 | 3284.7 | 2932.9 | 2449.3 | 1979.8 | 1676.4 | 1268.0 | 631.1  | 314.8  | 137.6  | 68.0   |
| 50°   | 1890.5 | 1900.5 | 1582.8 | 1280.8 | 839.6  | 665.2  | 504.8  | 317.6  | 151.7  | 72.3   | 41.2   |
| 52.5° | 493.6  | 516.3  | 445.3  | 382.9  | 326.2  | 265.2  | 214.1  | 137.6  | 72.3   | 42.5   | 26.9   |
| 55°   | 116.4  | 120.5  | 112.0  | 104.9  | 99.3   | 87.9   | 78.0   | 59.6   | 39.7   | 26.9   | 17.1   |
| 57.5° | 41.2   | 42.5   | 41.2   | 41.2   | 39.7   | 38.3   | 35.5   | 31.3   | 24.1   | 17.1   | 11.4   |
| 60°   | 18.4   | 19.9   | 18.4   | 19.9   | 19.9   | 19.9   | 19.9   | 19.9   | 14.2   | 9.9    | 7.1    |
| 62.5° | 8.4    | 8.4    | 8.4    | 8.4    | 9.9    | 9.9    | 11.4   | 11.4   | 8.4    | 7.1    | 5.6    |
| 65°   | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    | 4.3    |
| 67.5° | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 70°   | 4.3    | 4.3    | 4.3    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 4.3    |
| 72.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 75°   | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 77.5° | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    | 2.8    | 2.8    | 2.8    | 2.8    |
| 80°   | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 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    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    | 2.8    | 2.8    | 2.8    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 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°    | 356.0  | 356.0  | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 |
| 2.5°  | 441.1  | 439.6  | 424.0 | 412.8 | 407.1 | 398.5 | 388.6 | 374.4 | 358.8 | 344.7 | 338.9 |
| 5°    | 536.1  | 517.7  | 485.1 | 458.1 | 445.3 | 432.6 | 409.9 | 384.4 | 360.2 | 334.7 | 322.0 |
| 7.5°  | 659.6  | 605.6  | 541.7 | 492.1 | 470.9 | 449.6 | 416.9 | 381.5 | 348.9 | 314.8 | 296.4 |
| 10°   | 828.3  | 703.5  | 592.9 | 513.4 | 482.1 | 453.9 | 407.1 | 363.1 | 327.6 | 290.8 | 266.7 |
| 12.5° | 1184.2 | 875.1  | 646.7 | 523.3 | 482.1 | 445.3 | 388.6 | 337.5 | 297.8 | 259.5 | 236.8 |
| 15°   | 1706.1 | 1181.4 | 764.5 | 533.3 | 472.3 | 425.5 | 360.2 | 304.9 | 262.4 | 228.4 | 207.1 |
| 17.5° | 2127.3 | 1463.6 | 910.5 | 558.8 | 459.5 | 398.5 | 323.4 | 265.2 | 225.5 | 194.3 | 177.3 |
| 20°   | 2340.2 | 1582.8 | 977.2 | 563.1 | 428.4 | 356.0 | 279.3 | 224.1 | 188.7 | 161.7 | 147.5 |
| 22.5° | 2335.8 | 1544.4 | 917.6 | 493.6 | 375.9 | 307.7 | 235.4 | 184.4 | 156.1 | 134.7 | 123.3 |
| 25°   | 2188.4 | 1367.2 | 765.9 | 394.3 | 303.6 | 255.2 | 191.5 | 148.9 | 126.3 | 110.6 | 100.7 |
| 27.5° | 1911.8 | 1110.4 | 571.6 | 292.1 | 236.8 | 201.4 | 148.9 | 119.2 | 100.7 | 89.3  | 82.3  |
| 30°   | 1500.5 | 743.2  | 360.2 | 216.9 | 180.1 | 151.7 | 114.9 | 92.1  | 79.5  | 69.5  | 65.2  |
| 32.5° | 826.9  | 387.2  | 242.5 | 158.9 | 131.9 | 110.6 | 85.1  | 66.7  | 58.1  | 51.0  | 49.6  |
| 35°   | 456.7  | 273.7  | 173.0 | 106.4 | 87.9  | 75.2  | 58.1  | 48.2  | 42.5  | 39.7  | 39.7  |
| 37.5° | 323.4  | 175.8  | 103.6 | 66.7  | 56.8  | 49.6  | 39.7  | 34.1  | 32.7  | 31.3  | 31.3  |
| 40°   | 194.3  | 103.6  | 62.4  | 44.0  | 38.3  | 34.1  | 29.7  | 25.5  | 25.5  | 24.1  | 25.5  |
| 42.5° | 106.4  | 62.4   | 42.5  | 31.3  | 26.9  | 25.5  | 21.3  | 19.9  | 19.9  | 19.9  | 21.3  |
| 45°   | 63.9   | 41.2   | 29.7  | 22.7  | 19.9  | 17.1  | 15.6  | 14.2  | 15.6  | 15.6  | 17.1  |
| 47.5° | 41.2   | 29.7   | 19.9  | 14.2  | 12.8  | 11.4  | 9.9   | 11.4  | 11.4  | 12.8  | 14.2  |
| 50°   | 28.3   | 18.4   | 12.8  | 8.4   | 8.4   | 7.1   | 8.4   | 8.4   | 9.9   | 11.4  | 12.8  |
| 52.5° | 18.4   | 12.8   | 8.4   | 7.1   | 5.6   | 5.6   | 5.6   | 7.1   | 8.4   | 9.9   | 11.4  |
| 55°   | 11.4   | 8.4    | 7.1   | 5.6   | 5.6   | 5.6   | 5.6   | 5.6   | 7.1   | 8.4   | 9.9   |
| 57.5° | 8.4    | 7.1    | 5.6   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 7.1   | 7.1   | 8.4   |
| 60°   | 5.6    | 5.6    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 7.1   | 8.4   |
| 62.5° | 5.6    | 5.6    | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 5.6   | 7.1   | 7.1   |
| 65°   | 4.3    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 5.6   | 7.1   |
| 67.5° | 4.3    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 7.1   |
| 70°   | 4.3    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 7.1   |
| 72.5° | 4.3    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 5.6   |
| 75°   | 4.3    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 5.6   | 5.6   |
| 77.5° | 2.8    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 5.6   | 5.6   |
| 80°   | 4.3    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 5.6   | 5.6   |
| 82.5° | 2.8    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 5.6   | 5.6   |
| 85°   | 2.8    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 5.6   | 5.6   |
| 87.5° | 2.8    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.6   | 5.6   | 5.6   |
| 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°    | 356.0 | 356.0 | 356.0 | 356.0  | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 |
| 2.5°  | 331.9 | 322.0 | 313.5 | 316.3  | 310.6 | 300.7 | 297.8 | 290.8 | 282.3 | 280.9 | 280.9 |
| 5°    | 307.7 | 292.1 | 279.3 | 277.9  | 272.3 | 261.0 | 258.0 | 251.1 | 244.0 | 242.5 | 241.2 |
| 7.5°  | 277.9 | 261.0 | 249.6 | 246.8  | 242.5 | 232.5 | 231.2 | 224.1 | 219.9 | 216.9 | 216.9 |
| 10°   | 248.2 | 232.5 | 222.7 | 221.3  | 218.5 | 209.9 | 208.5 | 202.8 | 198.6 | 197.1 | 195.6 |
| 12.5° | 219.9 | 207.1 | 198.6 | 197.1  | 194.3 | 187.2 | 185.8 | 181.6 | 178.8 | 177.3 | 177.3 |
| 15°   | 192.8 | 181.6 | 174.4 | 173.0  | 171.6 | 164.5 | 164.5 | 161.7 | 160.3 | 160.3 | 161.7 |
| 17.5° | 166.0 | 156.1 | 150.3 | 148.9  | 148.9 | 143.2 | 144.7 | 143.2 | 143.2 | 143.2 | 146.1 |
| 20°   | 139.0 | 130.4 | 126.3 | 127.6  | 124.8 | 123.3 | 124.8 | 124.8 | 124.8 | 127.6 | 131.9 |
| 22.5° | 116.4 | 109.2 | 104.9 | 106.4  | 106.4 | 104.9 | 106.4 | 107.7 | 110.6 | 114.9 | 119.2 |
| 25°   | 95.1  | 89.3  | 87.9  | 89.3   | 89.3  | 89.3  | 92.1  | 95.1  | 97.9  | 102.1 | 106.4 |
| 27.5° | 76.6  | 72.3  | 72.3  | 73.8   | 75.2  | 75.2  | 79.5  | 82.3  | 86.5  | 90.7  | 95.1  |
| 30°   | 60.9  | 59.6  | 59.6  | 62.4   | 62.4  | 63.9  | 69.5  | 72.3  | 75.2  | 79.5  | 83.7  |
| 32.5° | 48.2  | 48.2  | 49.6  | 52.5   | 52.5  | 55.3  | 59.6  | 62.4  | 65.2  | 69.5  | 73.8  |
| 35°   | 39.7  | 41.2  | 42.5  | 44.0   | 45.3  | 46.8  | 51.0  | 54.0  | 56.8  | 60.9  | 63.9  |
| 37.5° | 32.7  | 34.1  | 35.5  | 38.3   | 38.3  | 39.7  | 44.0  | 46.8  | 48.2  | 52.5  | 56.8  |
| 40°   | 26.9  | 28.3  | 29.7  | 32.7   | 32.7  | 34.1  | 38.3  | 39.7  | 41.2  | 45.3  | 49.6  |
| 42.5° | 22.7  | 24.1  | 25.5  | 26.9   | 28.3  | 29.7  | 32.7  | 34.1  | 36.9  | 39.7  | 42.5  |
| 45°   | 18.4  | 19.9  | 21.3  | 22.7   | 24.1  | 25.5  | 26.9  | 29.7  | 31.3  | 34.1  | 36.9  |
| 47.5° | 15.6  | 17.1  | 18.4  | 19.9   | 21.3  | 21.3  | 24.1  | 25.5  | 26.9  | 29.7  | 32.7  |
| 50°   | 14.2  | 15.6  | 17.1  | 17.1   | 18.4  | 19.9  | 21.3  | 22.7  | 24.1  | 25.5  | 28.3  |
| 52.5° | 11.4  | 12.8  | 14.2  | 15.6   | 15.6  | 17.1  | 18.4  | 19.9  | 21.3  | 22.7  | 24.1  |
| 55°   | 11.4  | 11.4  | 12.8  | 14.2   | 14.2  | 15.6  | 17.1  | 18.4  | 18.4  | 19.9  | 21.3  |
| 57.5° | 9.9   | 11.4  | 11.4  | 12.8   | 12.8  | 14.2  | 15.6  | 15.6  | 17.1  | 17.1  | 18.4  |
| 60°   | 8.4   | 9.9   | 11.4  | 11.4   | 11.4  | 12.8  | 12.8  | 14.2  | 14.2  | 15.6  | 15.6  |
| 62.5° | 8.4   | 9.9   | 9.9   | 11.4   | 11.4  | 11.4  | 12.8  | 12.8  | 12.8  | 14.2  | 14.2  |
| 65°   | 8.4   | 8.4   | 9.9   | 9.9    | 9.9   | 9.9   | 11.4  | 11.4  | 11.4  | 12.8  | 12.8  |
| 67.5° | 7.1   | 8.4   | 8.4   | 8.4    | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   | 11.4  | 11.4  |
| 70°   | 7.1   | 7.1   | 8.4   | 8.4    | 8.4   | 8.4   | 8.4   | 9.9   | 9.9   | 9.9   | 9.9   |
| 72.5° | 7.1   | 7.1   | 7.1   | 7.1    | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   | 8.4   |
| 75°   | 5.6   | 7.1   | 7.1   | 7.1    | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   |
| 77.5° | 5.6   | 5.6   | 5.6   | 7.1    | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   | 7.1   |
| 80°   | 5.6   | 5.6   | 5.6   | 5.6    | 5.6   | 5.6   | 5.6   | 5.6   | 5.6   | 5.6   | 5.6   |
| 82.5° | 5.6   | 5.6   | 5.6   | 5.6    | 5.6   | 5.6   | 5.6   | 5.6   | 5.6   | 4.3   | 4.3   |
| 85°   | 5.6   | 5.6   | 4.3   | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   |
| 87.5° | 4.3   | 4.3   | 4.3   | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 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   |

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1219567

CATALOG NUMBER: LDSQA4A30950D010TE LAR35FL 4LSQAL1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 356.0 | 356.0 | 356.0  | 356.0 | 356.0 | 356.0 | 356.0 | 356.0 |
| 2.5°  | 275.1 | 272.3 | 270.9  | 275.1 | 269.5 | 272.3 | 270.9 | 272.3 |
| 5°    | 236.8 | 234.0 | 232.5  | 236.8 | 231.2 | 234.0 | 231.2 | 234.0 |
| 7.5°  | 212.7 | 211.3 | 209.9  | 212.7 | 208.5 | 211.3 | 209.9 | 211.3 |
| 10°   | 192.8 | 191.5 | 190.0  | 194.3 | 190.0 | 192.8 | 191.5 | 192.8 |
| 12.5° | 175.8 | 175.8 | 174.4  | 177.3 | 174.4 | 177.3 | 175.8 | 177.3 |
| 15°   | 160.3 | 161.7 | 160.3  | 163.1 | 161.7 | 164.5 | 163.1 | 166.0 |
| 17.5° | 147.5 | 148.9 | 148.9  | 153.1 | 151.7 | 156.1 | 154.5 | 156.1 |
| 20°   | 134.7 | 136.2 | 137.6  | 140.4 | 140.4 | 144.7 | 143.2 | 146.1 |
| 22.5° | 122.0 | 124.8 | 124.8  | 129.1 | 129.1 | 133.2 | 133.2 | 134.7 |
| 25°   | 109.2 | 113.4 | 114.9  | 117.7 | 119.2 | 123.3 | 123.3 | 124.8 |
| 27.5° | 99.3  | 102.1 | 103.6  | 107.7 | 109.2 | 113.4 | 113.4 | 116.4 |
| 30°   | 87.9  | 92.1  | 93.7   | 96.5  | 97.9  | 102.1 | 102.1 | 104.9 |
| 32.5° | 78.0  | 80.8  | 83.7   | 86.5  | 87.9  | 92.1  | 92.1  | 95.1  |
| 35°   | 68.0  | 72.3  | 73.8   | 76.6  | 79.5  | 83.7  | 83.7  | 86.5  |
| 37.5° | 59.6  | 63.9  | 65.2   | 68.0  | 70.8  | 75.2  | 75.2  | 78.0  |
| 40°   | 52.5  | 56.8  | 58.1   | 60.9  | 62.4  | 68.0  | 68.0  | 69.5  |
| 42.5° | 46.8  | 49.6  | 51.0   | 54.0  | 55.3  | 58.1  | 58.1  | 60.9  |
| 45°   | 39.7  | 42.5  | 44.0   | 45.3  | 48.2  | 51.0  | 51.0  | 52.5  |
| 47.5° | 34.1  | 36.9  | 38.3   | 39.7  | 41.2  | 44.0  | 44.0  | 46.8  |
| 50°   | 29.7  | 31.3  | 32.7   | 34.1  | 35.5  | 38.3  | 38.3  | 39.7  |
| 52.5° | 25.5  | 26.9  | 28.3   | 29.7  | 31.3  | 32.7  | 34.1  | 35.5  |
| 55°   | 22.7  | 24.1  | 24.1   | 25.5  | 26.9  | 28.3  | 28.3  | 29.7  |
| 57.5° | 19.9  | 21.3  | 21.3   | 21.3  | 22.7  | 24.1  | 24.1  | 25.5  |
| 60°   | 17.1  | 18.4  | 18.4   | 18.4  | 19.9  | 19.9  | 19.9  | 21.3  |
| 62.5° | 15.6  | 15.6  | 15.6   | 15.6  | 15.6  | 15.6  | 15.6  | 15.6  |
| 65°   | 12.8  | 12.8  | 12.8   | 12.8  | 12.8  | 12.8  | 11.4  | 12.8  |
| 67.5° | 11.4  | 11.4  | 11.4   | 9.9   | 9.9   | 9.9   | 9.9   | 9.9   |
| 70°   | 9.9   | 9.9   | 9.9    | 8.4   | 8.4   | 8.4   | 7.1   | 7.1   |
| 72.5° | 8.4   | 8.4   | 8.4    | 7.1   | 7.1   | 7.1   | 5.6   | 5.6   |
| 75°   | 7.1   | 7.1   | 7.1    | 7.1   | 5.6   | 5.6   | 5.6   | 5.6   |
| 77.5° | 5.6   | 5.6   | 5.6    | 5.6   | 5.6   | 5.6   | 4.3   | 4.3   |
| 80°   | 5.6   | 4.3   | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   |
| 82.5° | 4.3   | 4.3   | 4.3    | 4.3   | 2.8   | 2.8   | 2.8   | 2.8   |
| 85°   | 2.8   | 2.8   | 2.8    | 2.8   | 2.8   | 2.8   | 1.5   | 1.5   |
| 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

## Scaled Data Report



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

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Peachtree City, GA 30269

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(END OF REPORT)