

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: P1212376

Luminaire Tested: **LDSQA4A35935D010TE LAR25NF 4LSQA1H 30°**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P1212376  
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: LDSQA4A35935D010TE 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 / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

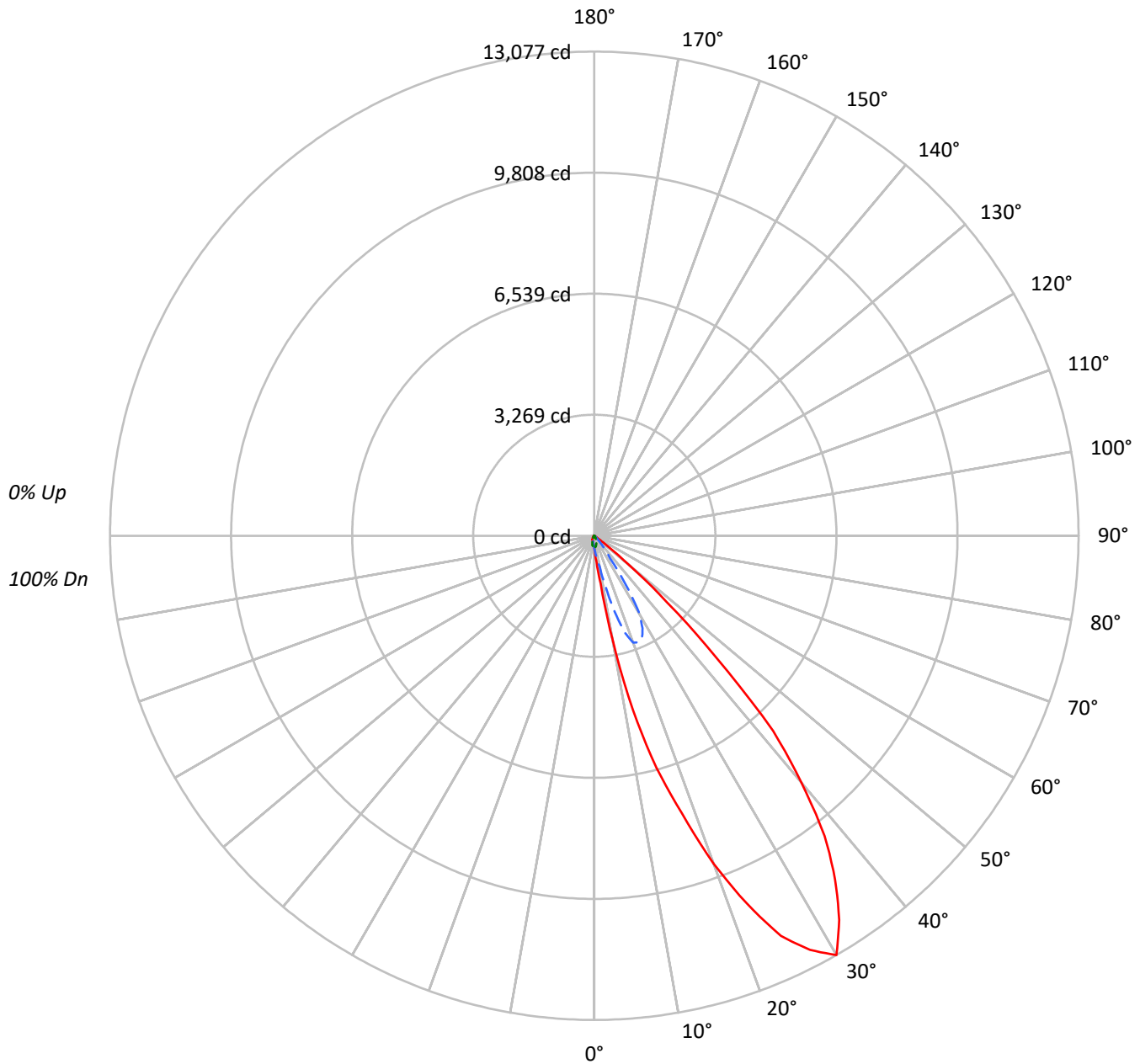
Lumens per Lamp: N/A  
Luminaire Lumens: 3150.3 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 2.38 / 0.59 / 1.18  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1212376

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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   | 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°  | 31872   | 31872 | 31872 |
| 5°  | 70532   | 30146 | 21180 |
| 10° | 282361  | 26176 | 17697 |
| 15° | 650850  | 20821 | 15555 |
| 20° | 971576  | 14783 | 13866 |
| 25° | 1274324 | 9845  | 12346 |
| 30° | 1462810 | 6220  | 10784 |
| 35° | 1341257 | 3985  | 9343  |
| 40° | 1099902 | 2592  | 7954  |
| 45° | 637651  | 1795  | 6412  |
| 50° | 180703  | 1326  | 5290  |
| 55° | 16552   | 1250  | 4442  |
| 60° | 2538    | 1434  | 3701  |
| 65° | 665     | 1352  | 2682  |
| 70° | 821     | 1671  | 2096  |
| 75° | 1085    | 2208  | 2208  |
| 80° | 0       | 3292  | 1618  |
| 85° | 0       | 6558  | 1667  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.7   | 1.5       |
| 10°-20°   | 418.9  | 13.3      |
| 20°-30°   | 1020.7 | 32.4      |
| 30°-40°   | 1106.2 | 35.1      |
| 40°-50°   | 501.2  | 15.9      |
| 50°-60°   | 38.8   | 1.2       |
| 60°-70°   | 8.0    | 0.3       |
| 70°-80°   | 5.9    | 0.2       |
| 80°-90°   | 3.7    | 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°    | 1486.4 | 47.2      |
| 0°-40°    | 2592.6 | 82.3      |
| 0°-60°    | 3132.6 | 99.4      |
| 0°-90°    | 3150.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3150.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°  | 90° | 135° | 180° | Flux |
|-----|-------|------|-----|------|------|------|
| 0°  | 329   | 329  | 329 | 329  | 329  |      |
| 5°  | 725   | 535  | 310 | 234  | 218  | 131  |
| 15° | 6490  | 2123 | 208 | 151  | 155  | 1886 |
| 25° | 11922 | 3049 | 92  | 91   | 116  | 5434 |
| 35° | 11341 | 775  | 34  | 53   | 79   | 6976 |
| 45° | 4654  | 98   | 13  | 29   | 47   | 3675 |
| 55° | 98    | 13   | 7   | 18   | 26   | 224  |
| 65° | 3     | 4    | 6   | 12   | 12   | 5    |
| 75° | 3     | 4    | 6   | 9    | 6    | 2    |
| 85° | 0     | 4    | 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°    | 329.0   | 329.0   | 329.0   | 329.0   | 329.0  | 329.0  | 329.0  | 329.0  | 329.0  | 329.0  | 329.0  |
| 2.5°  | 492.8   | 483.9   | 488.4   | 476.7   | 469.4  | 463.6  | 466.5  | 463.6  | 444.5  | 440.2  | 425.4  |
| 5°    | 725.3   | 712.0   | 712.0   | 687.2   | 660.9  | 644.9  | 644.9  | 625.8  | 584.9  | 566.0  | 535.2  |
| 7.5°  | 1299.9  | 1273.6  | 1251.7  | 1174.2  | 1073.2 | 1016.2 | 1001.6 | 921.3  | 817.5  | 751.6  | 674.1  |
| 10°   | 2870.4  | 2760.7  | 2683.2  | 2481.5  | 2211.0 | 2042.8 | 1971.1 | 1693.4 | 1362.9 | 1114.3 | 889.1  |
| 12.5° | 4826.8  | 4677.7  | 4541.7  | 4211.2  | 3822.3 | 3557.7 | 3415.9 | 3006.4 | 2364.4 | 1905.3 | 1425.7 |
| 15°   | 6489.5  | 6328.6  | 6167.8  | 5765.7  | 5354.8 | 5125.3 | 4864.9 | 4322.4 | 3474.4 | 2822.2 | 2123.1 |
| 17.5° | 7853.8  | 7763.1  | 7597.8  | 7008.6  | 6490.9 | 6132.7 | 5862.1 | 5153.0 | 4280.0 | 3535.7 | 2744.7 |
| 20°   | 9424.3  | 9200.5  | 8905.1  | 8190.0  | 7482.3 | 7033.5 | 6653.3 | 5789.1 | 4780.0 | 3924.6 | 3073.7 |
| 22.5° | 10746.2 | 10586.8 | 10162.6 | 9219.5  | 8178.3 | 7795.3 | 7330.3 | 6290.6 | 5101.9 | 4090.0 | 3111.7 |
| 25°   | 11921.8 | 11671.8 | 11139.4 | 10017.9 | 8951.9 | 8299.7 | 7729.5 | 6562.6 | 5220.2 | 4101.7 | 3048.8 |
| 27.5° | 12610.5 | 12284.4 | 11658.6 | 10436.1 | 9219.5 | 8498.7 | 7866.9 | 6609.4 | 5145.6 | 3946.6 | 2819.2 |
| 30°   | 13076.9 | 12427.7 | 11736.0 | 10440.5 | 9134.6 | 8397.8 | 7742.6 | 6373.9 | 4835.7 | 3592.8 | 2433.2 |
| 32.5° | 12307.9 | 11932.1 | 11271.1 | 10025.2 | 8672.7 | 7953.3 | 7302.6 | 5863.6 | 4351.7 | 3067.8 | 1693.4 |
| 35°   | 11341.3 | 11037.1 | 10462.4 | 9225.3  | 7979.6 | 7300.9 | 6610.9 | 5208.6 | 3721.4 | 2108.6 | 775.0  |
| 37.5° | 10218.2 | 9979.8  | 9361.3  | 8231.0  | 7134.4 | 6470.5 | 5778.8 | 4439.3 | 2620.4 | 1045.6 | 470.8  |
| 40°   | 8697.5  | 8495.7  | 7988.3  | 7080.2  | 6069.7 | 5438.1 | 4800.6 | 3320.8 | 1422.8 | 583.4  | 307.1  |
| 42.5° | 7149.0  | 6979.3  | 6517.3  | 5732.0  | 4844.4 | 4323.9 | 3762.3 | 2023.9 | 707.7  | 367.0  | 171.1  |
| 45°   | 4654.3  | 4442.3  | 4193.8  | 3834.0  | 3395.4 | 3075.1 | 2412.8 | 976.8  | 419.7  | 204.7  | 98.0   |
| 47.5° | 2668.6  | 2528.3  | 2120.3  | 1672.9  | 1358.4 | 1240.1 | 902.2  | 454.8  | 231.0  | 118.4  | 59.9   |
| 50°   | 1199.0  | 1108.4  | 930.0   | 757.4   | 548.3  | 428.5  | 364.1  | 228.1  | 114.0  | 64.4   | 41.0   |
| 52.5° | 295.4   | 301.2   | 285.1   | 250.0   | 222.2  | 188.7  | 163.7  | 106.7  | 59.9   | 39.4   | 26.3   |
| 55°   | 98.0    | 99.5    | 90.7    | 86.4    | 79.0   | 73.1   | 67.3   | 48.3   | 36.5   | 35.1   | 13.1   |
| 57.5° | 35.1    | 35.1    | 36.5    | 33.7    | 32.2   | 30.7   | 29.3   | 24.8   | 22.0   | 13.1   | 7.4    |
| 60°   | 13.1    | 13.1    | 13.1    | 14.6    | 14.6   | 14.6   | 16.1   | 14.6   | 10.2   | 7.4    | 5.9    |
| 62.5° | 5.9     | 5.9     | 5.9     | 5.9     | 7.4    | 7.4    | 8.8    | 7.4    | 5.9    | 5.9    | 4.3    |
| 65°   | 2.9     | 2.9     | 4.3     | 4.3     | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 67.5° | 2.9     | 2.9     | 2.9     | 2.9     | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.3    | 4.3    |
| 70°   | 2.9     | 2.9     | 2.9     | 2.9     | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.3    | 4.3    |
| 72.5° | 2.9     | 2.9     | 2.9     | 2.9     | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.3    | 4.3    |
| 75°   | 2.9     | 2.9     | 2.9     | 2.9     | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 4.3    |
| 77.5° | 0.0     | 0.0     | 0.0     | 1.5     | 1.5    | 1.5    | 1.5    | 2.9    | 2.9    | 2.9    | 4.3    |
| 80°   | 0.0     | 0.0     | 0.0     | 1.5     | 1.5    | 1.5    | 1.5    | 2.9    | 2.9    | 2.9    | 4.3    |
| 82.5° | 0.0     | 0.0     | 0.0     | 1.5     | 1.5    | 1.5    | 1.5    | 2.9    | 2.9    | 2.9    | 4.3    |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 1.5    | 1.5    | 1.5    | 1.5    | 2.9    | 2.9    | 4.3    |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 1.5    | 1.5    | 1.5    | 1.5    | 2.9    | 2.9    | 2.9    |
| 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°    | 329.0  | 329.0  | 329.0 | 329.0 | 329.0 | 329.0 | 329.0 | 329.0 | 329.0 | 329.0 | 329.0 |
| 2.5°  | 410.9  | 402.1  | 384.6 | 371.5 | 361.2 | 359.7 | 351.0 | 336.4 | 330.5 | 320.3 | 311.4 |
| 5°    | 505.9  | 483.9  | 456.2 | 430.0 | 410.9 | 400.6 | 369.9 | 342.2 | 326.2 | 310.0 | 295.4 |
| 7.5°  | 608.2  | 558.6  | 510.3 | 467.9 | 441.6 | 425.4 | 388.9 | 343.6 | 314.4 | 291.1 | 272.0 |
| 10°   | 737.0  | 634.7  | 551.2 | 485.5 | 450.4 | 428.5 | 384.6 | 330.5 | 294.0 | 266.1 | 247.2 |
| 12.5° | 1030.8 | 751.6  | 589.3 | 494.2 | 450.4 | 419.7 | 367.0 | 312.9 | 272.0 | 238.3 | 217.8 |
| 15°   | 1533.9 | 1049.9 | 698.9 | 498.7 | 435.7 | 400.6 | 340.7 | 283.7 | 242.7 | 207.6 | 188.7 |
| 17.5° | 2007.6 | 1381.8 | 873.0 | 529.2 | 426.9 | 372.9 | 305.7 | 250.0 | 207.6 | 174.0 | 158.0 |
| 20°   | 2253.4 | 1547.1 | 969.4 | 552.7 | 412.3 | 337.8 | 264.6 | 213.5 | 172.5 | 143.4 | 130.1 |
| 22.5° | 2259.1 | 1532.4 | 922.7 | 498.7 | 358.2 | 289.4 | 226.7 | 175.4 | 140.3 | 115.5 | 105.3 |
| 25°   | 2120.3 | 1355.5 | 759.0 | 388.9 | 289.4 | 242.7 | 188.7 | 143.4 | 109.7 | 92.1  | 84.8  |
| 27.5° | 1858.5 | 1096.7 | 560.1 | 280.8 | 226.7 | 193.0 | 147.7 | 109.7 | 83.3  | 71.6  | 67.3  |
| 30°   | 1437.4 | 678.5  | 310.0 | 207.6 | 171.1 | 144.8 | 106.7 | 73.1  | 62.9  | 55.6  | 52.7  |
| 32.5° | 713.6  | 331.9  | 219.3 | 147.7 | 116.9 | 92.1  | 67.3  | 54.2  | 48.3  | 43.9  | 42.4  |
| 35°   | 387.5  | 238.3  | 137.5 | 89.2  | 70.2  | 58.5  | 45.3  | 38.0  | 35.1  | 33.7  | 33.7  |
| 37.5° | 270.5  | 141.8  | 83.3  | 54.2  | 43.9  | 39.4  | 32.2  | 27.7  | 26.3  | 26.3  | 26.3  |
| 40°   | 149.1  | 84.8   | 51.1  | 35.1  | 29.3  | 26.3  | 22.0  | 20.5  | 20.5  | 20.5  | 22.0  |
| 42.5° | 86.4   | 52.7   | 35.1  | 24.8  | 20.5  | 19.1  | 16.1  | 14.6  | 16.1  | 16.1  | 17.6  |
| 45°   | 55.6   | 39.4   | 23.4  | 17.6  | 14.6  | 13.1  | 11.7  | 11.7  | 13.1  | 13.1  | 14.6  |
| 47.5° | 39.4   | 27.7   | 16.1  | 11.7  | 8.8   | 8.8   | 8.8   | 8.8   | 10.2  | 11.7  | 13.1  |
| 50°   | 23.4   | 14.6   | 8.8   | 7.4   | 5.9   | 5.9   | 5.9   | 7.4   | 8.8   | 8.8   | 10.2  |
| 52.5° | 13.1   | 8.8    | 5.9   | 5.9   | 4.3   | 4.3   | 5.9   | 5.9   | 7.4   | 8.8   | 10.2  |
| 55°   | 7.4    | 5.9    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.9   | 5.9   | 7.4   | 8.8   |
| 57.5° | 5.9    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.9   | 5.9   | 7.4   | 7.4   |
| 60°   | 4.3    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 5.9   | 5.9   | 7.4   | 7.4   |
| 62.5° | 4.3    | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 5.9   | 5.9   | 5.9   | 5.9   | 7.4   |
| 65°   | 4.3    | 4.3    | 4.3   | 5.9   | 4.3   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 7.4   |
| 67.5° | 4.3    | 4.3    | 4.3   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 7.4   |
| 70°   | 4.3    | 4.3    | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 7.4   |
| 72.5° | 4.3    | 4.3    | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 7.4   |
| 75°   | 4.3    | 4.3    | 4.3   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   |
| 77.5° | 4.3    | 4.3    | 4.3   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   |
| 80°   | 4.3    | 4.3    | 4.3   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   |
| 82.5° | 4.3    | 4.3    | 4.3   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   |
| 85°   | 4.3    | 4.3    | 4.3   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   |
| 87.5° | 4.3    | 4.3    | 4.3   | 4.3   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   |
| 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°    | 329.0 | 329.0 | 329.0 | 329.0  | 329.0 | 329.0 | 329.0 | 329.0 | 329.0 | 329.0 | 329.0 |
| 2.5°  | 308.5 | 298.3 | 291.1 | 288.1  | 282.2 | 283.7 | 279.2 | 276.3 | 267.5 | 267.5 | 261.8 |
| 5°    | 285.1 | 272.0 | 263.2 | 258.9  | 252.9 | 251.5 | 247.2 | 242.7 | 234.0 | 232.4 | 228.1 |
| 7.5°  | 260.3 | 247.2 | 236.9 | 232.4  | 226.7 | 225.2 | 219.3 | 216.4 | 209.1 | 207.6 | 203.3 |
| 10°   | 234.0 | 219.3 | 210.5 | 206.2  | 200.4 | 200.4 | 195.9 | 193.0 | 187.1 | 187.1 | 184.3 |
| 12.5° | 206.2 | 193.0 | 187.1 | 181.3  | 178.4 | 178.4 | 175.4 | 172.5 | 168.2 | 169.7 | 168.2 |
| 15°   | 177.0 | 166.7 | 160.8 | 158.0  | 156.5 | 156.5 | 155.1 | 153.4 | 150.6 | 153.4 | 150.6 |
| 17.5° | 149.1 | 141.8 | 137.5 | 136.0  | 134.5 | 134.5 | 134.5 | 136.0 | 134.5 | 137.5 | 137.5 |
| 20°   | 122.9 | 116.9 | 114.0 | 114.0  | 112.6 | 115.5 | 115.5 | 118.4 | 118.4 | 122.9 | 124.3 |
| 22.5° | 100.9 | 96.4  | 95.0  | 95.0   | 95.0  | 98.0  | 99.5  | 102.3 | 103.8 | 108.1 | 111.2 |
| 25°   | 80.4  | 79.0  | 79.0  | 79.0   | 80.4  | 83.3  | 86.4  | 89.2  | 90.7  | 96.4  | 98.0  |
| 27.5° | 65.8  | 64.4  | 65.8  | 65.8   | 67.3  | 71.6  | 74.6  | 77.5  | 80.4  | 84.8  | 87.7  |
| 30°   | 52.7  | 52.7  | 54.2  | 55.6   | 57.0  | 59.9  | 64.4  | 67.3  | 70.2  | 74.6  | 77.5  |
| 32.5° | 42.4  | 43.9  | 45.3  | 46.8   | 46.8  | 51.1  | 54.2  | 58.5  | 59.9  | 64.4  | 67.3  |
| 35°   | 35.1  | 36.5  | 38.0  | 39.4   | 39.4  | 43.9  | 46.8  | 49.6  | 52.7  | 55.6  | 58.5  |
| 37.5° | 27.7  | 29.3  | 32.2  | 33.7   | 33.7  | 38.0  | 39.4  | 42.4  | 45.3  | 48.3  | 51.1  |
| 40°   | 23.4  | 24.8  | 27.7  | 27.7   | 29.3  | 32.2  | 33.7  | 36.5  | 39.4  | 42.4  | 45.3  |
| 42.5° | 19.1  | 20.5  | 23.4  | 24.8   | 24.8  | 27.7  | 29.3  | 32.2  | 33.7  | 36.5  | 38.0  |
| 45°   | 17.6  | 17.6  | 20.5  | 20.5   | 22.0  | 23.4  | 26.3  | 27.7  | 29.3  | 32.2  | 33.7  |
| 47.5° | 14.6  | 16.1  | 17.6  | 19.1   | 19.1  | 20.5  | 22.0  | 23.4  | 24.8  | 27.7  | 29.3  |
| 50°   | 11.7  | 13.1  | 16.1  | 16.1   | 16.1  | 19.1  | 20.5  | 22.0  | 22.0  | 23.4  | 24.8  |
| 52.5° | 11.7  | 11.7  | 13.1  | 14.6   | 14.6  | 16.1  | 17.6  | 19.1  | 19.1  | 20.5  | 22.0  |
| 55°   | 10.2  | 10.2  | 11.7  | 13.1   | 13.1  | 14.6  | 16.1  | 16.1  | 17.6  | 17.6  | 19.1  |
| 57.5° | 8.8   | 10.2  | 11.7  | 11.7   | 11.7  | 13.1  | 14.6  | 14.6  | 16.1  | 16.1  | 17.6  |
| 60°   | 8.8   | 10.2  | 10.2  | 11.7   | 11.7  | 13.1  | 13.1  | 13.1  | 14.6  | 14.6  | 14.6  |
| 62.5° | 8.8   | 8.8   | 10.2  | 10.2   | 10.2  | 11.7  | 11.7  | 13.1  | 13.1  | 13.1  | 13.1  |
| 65°   | 8.8   | 8.8   | 10.2  | 10.2   | 10.2  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  |
| 67.5° | 7.4   | 8.8   | 8.8   | 8.8    | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  |
| 70°   | 7.4   | 7.4   | 8.8   | 8.8    | 8.8   | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  |
| 72.5° | 7.4   | 7.4   | 8.8   | 8.8    | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   | 8.8   |
| 75°   | 7.4   | 7.4   | 7.4   | 7.4    | 7.4   | 8.8   | 8.8   | 8.8   | 8.8   | 7.4   | 7.4   |
| 77.5° | 5.9   | 7.4   | 7.4   | 7.4    | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 7.4   | 5.9   |
| 80°   | 5.9   | 5.9   | 7.4   | 5.9    | 7.4   | 7.4   | 7.4   | 7.4   | 5.9   | 5.9   | 5.9   |
| 82.5° | 5.9   | 5.9   | 5.9   | 5.9    | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   | 4.3   | 4.3   |
| 85°   | 5.9   | 5.9   | 5.9   | 5.9    | 5.9   | 5.9   | 5.9   | 4.3   | 4.3   | 4.3   | 2.9   |
| 87.5° | 5.9   | 5.9   | 5.9   | 5.9    | 5.9   | 5.9   | 4.3   | 4.3   | 4.3   | 2.9   | 2.9   |
| 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: P1212376

CATALOG NUMBER: LDSQA4A35935D010TE LAR25NF 4LSQA1H 30°

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 329.0 | 329.0 | 329.0  | 329.0 | 329.0 | 329.0 | 329.0 | 329.0 |
| 2.5°  | 258.9 | 261.8 | 258.9  | 261.8 | 254.4 | 257.4 | 260.3 | 252.9 |
| 5°    | 225.2 | 222.2 | 223.7  | 226.7 | 220.8 | 222.2 | 223.7 | 217.8 |
| 7.5°  | 201.8 | 203.3 | 200.4  | 203.3 | 198.8 | 200.4 | 201.8 | 197.4 |
| 10°   | 182.8 | 184.3 | 182.8  | 184.3 | 179.9 | 182.8 | 184.3 | 179.9 |
| 12.5° | 165.2 | 168.2 | 166.7  | 169.7 | 165.2 | 168.2 | 171.1 | 165.2 |
| 15°   | 152.1 | 155.1 | 153.4  | 156.5 | 153.4 | 156.5 | 159.4 | 155.1 |
| 17.5° | 138.9 | 141.8 | 141.8  | 144.8 | 143.4 | 146.2 | 149.1 | 144.8 |
| 20°   | 125.8 | 130.1 | 130.1  | 133.1 | 133.1 | 134.5 | 138.9 | 134.5 |
| 22.5° | 114.0 | 118.4 | 118.4  | 121.4 | 121.4 | 124.3 | 127.2 | 124.3 |
| 25°   | 100.9 | 106.7 | 108.1  | 111.2 | 111.2 | 114.0 | 118.4 | 115.5 |
| 27.5° | 92.1  | 96.4  | 98.0   | 100.9 | 102.3 | 105.3 | 108.1 | 105.3 |
| 30°   | 80.4  | 86.4  | 87.7   | 90.7  | 92.1  | 96.4  | 98.0  | 96.4  |
| 32.5° | 71.6  | 76.1  | 77.5   | 80.4  | 83.3  | 86.4  | 89.2  | 87.7  |
| 35°   | 62.9  | 67.3  | 68.7   | 71.6  | 73.1  | 77.5  | 80.4  | 79.0  |
| 37.5° | 55.6  | 59.9  | 61.4   | 62.9  | 64.4  | 68.7  | 71.6  | 70.2  |
| 40°   | 48.3  | 51.1  | 52.7   | 55.6  | 57.0  | 59.9  | 62.9  | 62.9  |
| 42.5° | 42.4  | 45.3  | 46.8   | 48.3  | 49.6  | 52.7  | 55.6  | 54.2  |
| 45°   | 36.5  | 39.4  | 41.0   | 42.4  | 43.9  | 45.3  | 48.3  | 46.8  |
| 47.5° | 30.7  | 33.7  | 35.1   | 36.5  | 38.0  | 39.4  | 42.4  | 41.0  |
| 50°   | 26.3  | 29.3  | 29.3   | 30.7  | 32.2  | 33.7  | 36.5  | 35.1  |
| 52.5° | 23.4  | 24.8  | 26.3   | 26.3  | 27.7  | 29.3  | 32.2  | 30.7  |
| 55°   | 20.5  | 22.0  | 22.0   | 23.4  | 23.4  | 24.8  | 26.3  | 26.3  |
| 57.5° | 17.6  | 19.1  | 19.1   | 20.5  | 20.5  | 22.0  | 23.4  | 23.4  |
| 60°   | 16.1  | 16.1  | 17.6   | 17.6  | 17.6  | 19.1  | 19.1  | 19.1  |
| 62.5° | 14.6  | 14.6  | 14.6   | 14.6  | 14.6  | 14.6  | 14.6  | 14.6  |
| 65°   | 11.7  | 11.7  | 11.7   | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  |
| 67.5° | 10.2  | 10.2  | 10.2   | 10.2  | 10.2  | 8.8   | 8.8   | 8.8   |
| 70°   | 8.8   | 8.8   | 8.8    | 8.8   | 8.8   | 7.4   | 7.4   | 7.4   |
| 72.5° | 8.8   | 8.8   | 7.4    | 7.4   | 7.4   | 7.4   | 7.4   | 5.9   |
| 75°   | 7.4   | 7.4   | 7.4    | 7.4   | 5.9   | 5.9   | 5.9   | 5.9   |
| 77.5° | 5.9   | 5.9   | 5.9    | 5.9   | 4.3   | 4.3   | 4.3   | 4.3   |
| 80°   | 5.9   | 4.3   | 4.3    | 4.3   | 4.3   | 4.3   | 4.3   | 2.9   |
| 82.5° | 4.3   | 4.3   | 4.3    | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   |
| 85°   | 2.9   | 2.9   | 2.9    | 2.9   | 1.5   | 1.5   | 1.5   | 1.5   |
| 87.5° | 2.9   | 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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Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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

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1121 Highway 74 South

Peachtree City, GA 30269

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