

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: P315555

Luminaire Tested: **LDA2B05WFL8035D010 PIN1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B05WFL8035D010 PIN1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, Black oculus, matte white finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 668.8 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

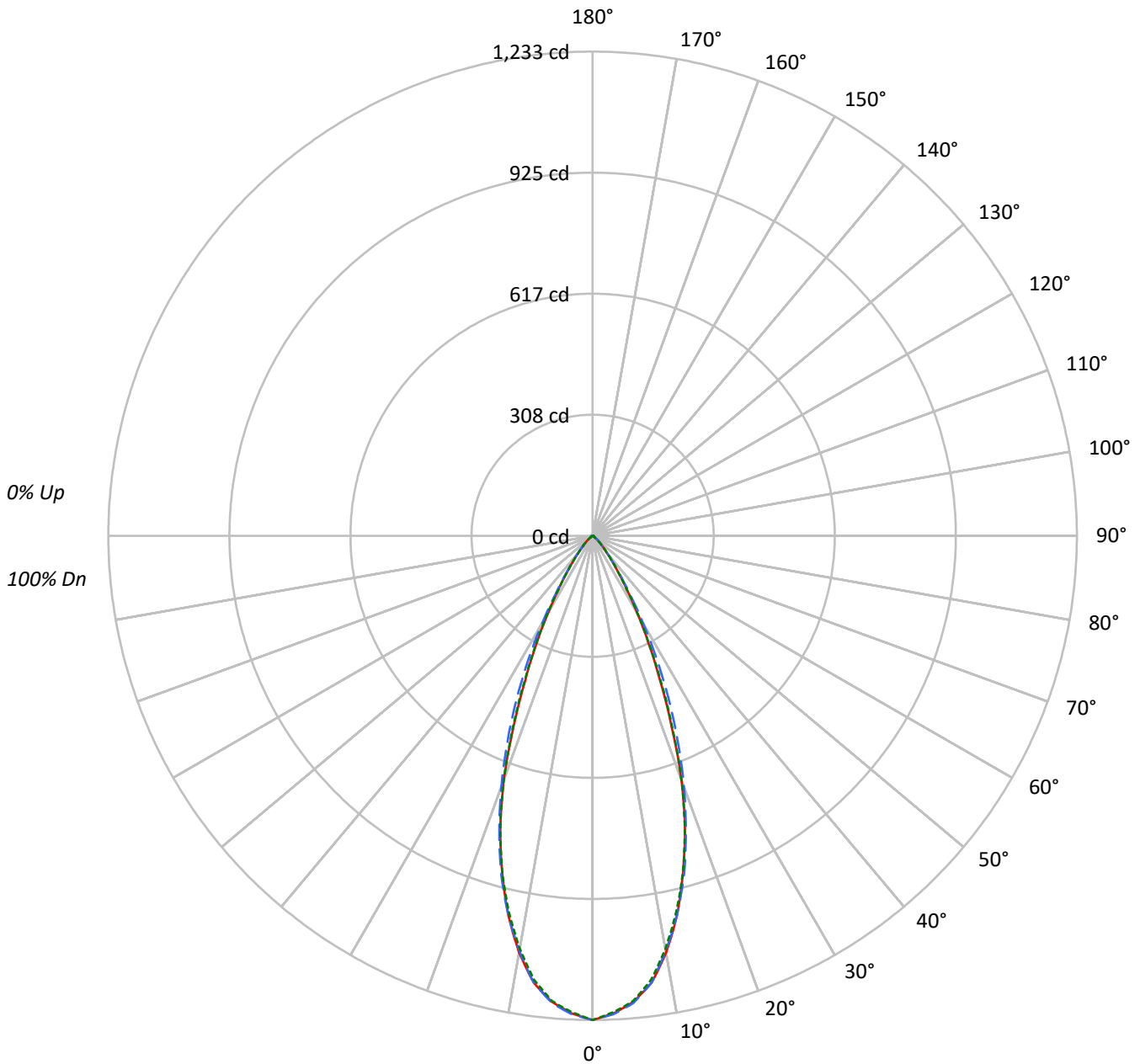
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 109 | 104 | 101 | 98  | 107 | 103 | 99  | 96  | 100 | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 89  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  | 92  | 89  | 87  | 90  | 87  | 85  | 84  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 83  | 90  | 86  | 82  | 88  | 84  | 81  | 86  | 83  | 81  | 79  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 95  | 88  | 82  | 79  | 94  | 87  | 82  | 78  | 85  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 75  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 91  | 83  | 78  | 74  | 90  | 82  | 77  | 74  | 81  | 77  | 73  | 80  | 76  | 73  | 78  | 75  | 72  | 71  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 87  | 79  | 74  | 70  | 86  | 78  | 73  | 70  | 77  | 73  | 69  | 76  | 72  | 69  | 75  | 71  | 69  | 67  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 84  | 75  | 70  | 66  | 83  | 75  | 70  | 66  | 74  | 69  | 66  | 73  | 69  | 66  | 72  | 68  | 65  | 64  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 81  | 72  | 67  | 63  | 80  | 71  | 66  | 63  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 65  | 62  | 61  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 77  | 69  | 64  | 60  | 76  | 68  | 63  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 66  | 62  | 60  | 58  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 608364 | 608364 | 608364 |
| 5°  | 590086 | 591522 | 588848 |
| 10° | 540099 | 537944 | 534738 |
| 15° | 454326 | 458514 | 453611 |
| 20° | 347409 | 356649 | 346884 |
| 25° | 220631 | 248720 | 224931 |
| 30° | 128293 | 144871 | 130572 |
| 35° | 67817  | 72154  | 68058  |
| 40° | 35809  | 37419  | 35809  |
| 45° | 20025  | 20792  | 20304  |
| 50° | 9364   | 11820  | 9364   |
| 55° | 3355   | 6451   | 3699   |
| 60° | 3848   | 3848   | 3848   |
| 65° | 4203   | 4553   | 4203   |
| 70° | 5193   | 4616   | 5193   |
| 75° | 4766   | 4766   | 4766   |
| 80° | 5114   | 3978   | 5114   |
| 85° | 3962   | 3962   | 3962   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.1  | 16.5      |
| 10°-20°   | 245.1  | 36.6      |
| 20°-30°   | 197.9  | 29.6      |
| 30°-40°   | 78.2   | 11.7      |
| 40°-50°   | 24.0   | 3.6       |
| 50°-60°   | 6.2    | 0.9       |
| 60°-70°   | 3.7    | 0.6       |
| 70°-80°   | 2.8    | 0.4       |
| 80°-90°   | 0.8    | 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°    | 553.1  | 82.7      |
| 0°-40°    | 631.3  | 94.4      |
| 0°-60°    | 661.5  | 98.9      |
| 0°-90°    | 668.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 668.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1233 | 1233  | 1233 | 1233  | 1233 |      |
| 5°  | 1192 | 1194  | 1194 | 1192  | 1189 | 110  |
| 15° | 890  | 892   | 898  | 894   | 888  | 244  |
| 25° | 405  | 425   | 457  | 432   | 413  | 189  |
| 35° | 113  | 116   | 120  | 116   | 113  | 75   |
| 45° | 29   | 29    | 30   | 29    | 29   | 23   |
| 55° | 4    | 5     | 8    | 5     | 4    | 5    |
| 65° | 4    | 4     | 4    | 4     | 4    | 4    |
| 75° | 2    | 2     | 2    | 2     | 2    | 3    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1233.1 | 1233.1 | 1233.1 | 1233.1 | 1233.1 |
| 2.5°  | 1217.7 | 1218.4 | 1219.5 | 1218.0 | 1214.4 |
| 5°    | 1191.5 | 1193.6 | 1194.4 | 1191.8 | 1189.0 |
| 7.5°  | 1148.4 | 1145.9 | 1148.1 | 1143.8 | 1140.2 |
| 10°   | 1078.1 | 1074.9 | 1073.8 | 1067.4 | 1067.4 |
| 12.5° | 991.3  | 990.3  | 991.0  | 987.8  | 982.7  |
| 15°   | 889.5  | 892.0  | 897.7  | 894.1  | 888.1  |
| 17.5° | 781.5  | 785.1  | 790.1  | 789.1  | 780.8  |
| 20°   | 661.7  | 672.1  | 679.3  | 672.5  | 660.7  |
| 22.5° | 525.4  | 547.7  | 566.0  | 551.6  | 532.3  |
| 25°   | 405.3  | 424.7  | 456.9  | 432.5  | 413.2  |
| 27.5° | 307.4  | 321.4  | 350.8  | 326.7  | 313.5  |
| 30°   | 225.2  | 233.8  | 254.3  | 238.5  | 229.2  |
| 32.5° | 161.0  | 167.1  | 175.7  | 166.4  | 161.8  |
| 35°   | 112.6  | 115.8  | 119.8  | 116.2  | 113.0  |
| 37.5° | 79.3   | 80.3   | 83.2   | 80.3   | 78.9   |
| 40°   | 55.6   | 56.0   | 58.1   | 56.3   | 55.6   |
| 42.5° | 40.2   | 40.2   | 41.2   | 40.5   | 40.2   |
| 45°   | 28.7   | 29.1   | 29.8   | 29.4   | 29.1   |
| 47.5° | 20.4   | 21.2   | 21.2   | 21.5   | 20.1   |
| 50°   | 12.2   | 15.1   | 15.4   | 15.1   | 12.2   |
| 52.5° | 6.5    | 9.0    | 11.1   | 9.0    | 6.5    |
| 55°   | 3.9    | 5.4    | 7.5    | 5.4    | 4.3    |
| 57.5° | 3.9    | 3.9    | 5.0    | 4.3    | 3.9    |
| 60°   | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 62.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 65°   | 3.6    | 3.9    | 3.9    | 3.9    | 3.6    |
| 67.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 70°   | 3.6    | 3.6    | 3.2    | 3.6    | 3.6    |
| 72.5° | 3.2    | 3.2    | 2.9    | 3.2    | 3.2    |
| 75°   | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 77.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 80°   | 1.8    | 1.8    | 1.4    | 1.8    | 1.8    |
| 82.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 85°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 87.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)