

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: P315637

Luminaire Tested: **LDA2B10WFL8030D010 PIN1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P315637  
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: LDA2B10WFL8030D010 PIN1MB  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj PinHole, Black oculus black finish  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 898.6 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

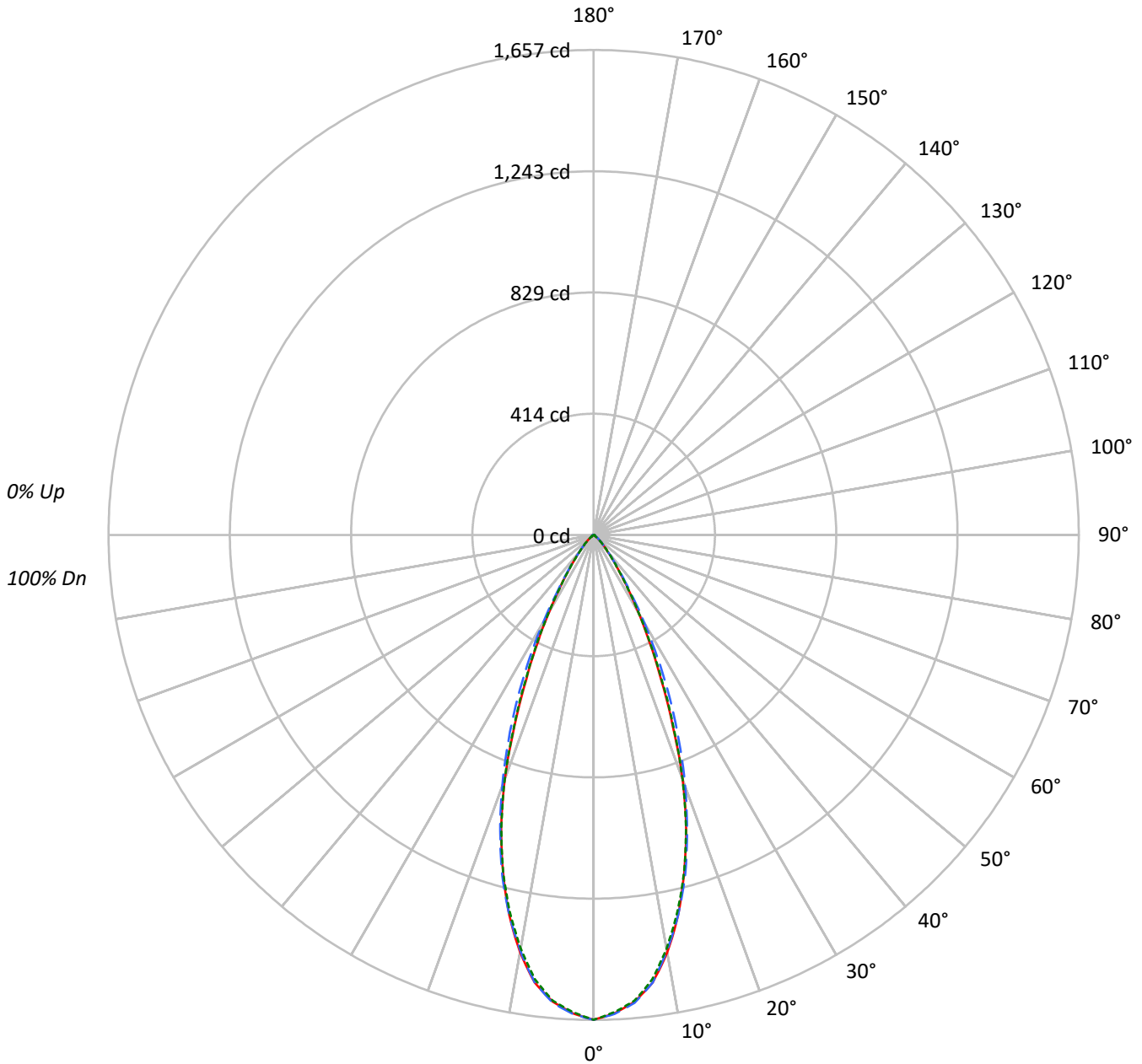
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| 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°  | 817402 | 817402 | 817402 |
| 5°  | 792840 | 794771 | 791206 |
| 10° | 725709 | 722853 | 718495 |
| 15° | 610467 | 616086 | 609446 |
| 20° | 466799 | 479242 | 466064 |
| 25° | 296461 | 334240 | 302231 |
| 30° | 172387 | 194661 | 175406 |
| 35° | 91125  | 96968  | 91427  |
| 40° | 48110  | 50299  | 48110  |
| 45° | 26932  | 27909  | 27211  |
| 50° | 12588  | 15888  | 12588  |
| 55° | 4559   | 8688   | 4989   |
| 60° | 5230   | 5230   | 5230   |
| 65° | 5603   | 6187   | 5603   |
| 70° | 6924   | 6203   | 6924   |
| 75° | 6481   | 6481   | 6481   |
| 80° | 6819   | 5398   | 6819   |
| 85° | 5661   | 5661   | 5661   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 147.9  | 16.5      |
| 10°-20°   | 329.3  | 36.6      |
| 20°-30°   | 265.9  | 29.6      |
| 30°-40°   | 105.1  | 11.7      |
| 40°-50°   | 32.3   | 3.6       |
| 50°-60°   | 8.3    | 0.9       |
| 60°-70°   | 5.0    | 0.6       |
| 70°-80°   | 3.7    | 0.4       |
| 80°-90°   | 1.1    | 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°    | 743.1  | 82.7      |
| 0°-40°    | 848.2  | 94.4      |
| 0°-60°    | 888.8  | 98.9      |
| 0°-90°    | 898.6  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 898.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1657 | 1657  | 1657 | 1657  | 1657 |      |
| 5°  | 1601 | 1604  | 1605 | 1601  | 1598 | 148  |
| 15° | 1195 | 1198  | 1206 | 1201  | 1193 | 328  |
| 25° | 545  | 571   | 614  | 581   | 555  | 254  |
| 35° | 151  | 156   | 161  | 156   | 152  | 101  |
| 45° | 39   | 39    | 40   | 40    | 39   | 31   |
| 55° | 5    | 7     | 10   | 7     | 6    | 7    |
| 65° | 5    | 5     | 5    | 5     | 5    | 5    |
| 75° | 3    | 3     | 3    | 3     | 3    | 4    |
| 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°    | 1656.8 | 1656.8 | 1656.8 | 1656.8 | 1656.8 |
| 2.5°  | 1636.1 | 1637.1 | 1638.5 | 1636.6 | 1631.8 |
| 5°    | 1600.9 | 1603.8 | 1604.8 | 1601.4 | 1597.6 |
| 7.5°  | 1543.1 | 1539.7 | 1542.6 | 1536.8 | 1532.0 |
| 10°   | 1448.6 | 1444.3 | 1442.9 | 1434.2 | 1434.2 |
| 12.5° | 1332.0 | 1330.6 | 1331.5 | 1327.2 | 1320.5 |
| 15°   | 1195.2 | 1198.5 | 1206.2 | 1201.4 | 1193.2 |
| 17.5° | 1050.1 | 1054.9 | 1061.7 | 1060.2 | 1049.1 |
| 20°   | 889.1  | 903.1  | 912.8  | 903.6  | 887.7  |
| 22.5° | 706.0  | 735.9  | 760.5  | 741.2  | 715.2  |
| 25°   | 544.6  | 570.6  | 614.0  | 581.2  | 555.2  |
| 27.5° | 413.0  | 431.8  | 471.3  | 439.0  | 421.2  |
| 30°   | 302.6  | 314.2  | 341.7  | 320.5  | 307.9  |
| 32.5° | 216.4  | 224.6  | 236.1  | 223.6  | 217.3  |
| 35°   | 151.3  | 155.7  | 161.0  | 156.1  | 151.8  |
| 37.5° | 106.5  | 107.9  | 111.8  | 107.9  | 106.0  |
| 40°   | 74.7   | 75.2   | 78.1   | 75.7   | 74.7   |
| 42.5° | 54.0   | 54.0   | 55.4   | 54.5   | 54.0   |
| 45°   | 38.6   | 39.0   | 40.0   | 39.5   | 39.0   |
| 47.5° | 27.5   | 28.4   | 28.4   | 28.9   | 27.0   |
| 50°   | 16.4   | 20.2   | 20.7   | 20.2   | 16.4   |
| 52.5° | 8.7    | 12.0   | 14.9   | 12.0   | 8.7    |
| 55°   | 5.3    | 7.2    | 10.1   | 7.2    | 5.8    |
| 57.5° | 5.3    | 5.3    | 6.7    | 5.8    | 5.3    |
| 60°   | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    |
| 62.5° | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    |
| 65°   | 4.8    | 5.3    | 5.3    | 5.3    | 4.8    |
| 67.5° | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    |
| 70°   | 4.8    | 4.8    | 4.3    | 4.8    | 4.8    |
| 72.5° | 4.3    | 4.3    | 3.9    | 4.3    | 4.3    |
| 75°   | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 77.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 80°   | 2.4    | 2.4    | 1.9    | 2.4    | 2.4    |
| 82.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 85°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 87.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)