

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: P280145

Luminaire Tested: **LDA2B058035D010 EU2B05WFL558035 2LBALD1GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P280145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-5)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B058035D010 EU2B05WFL558035 2LBALD1GPH  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in ADJ spun Refl w/lens Self-Flanged, GPH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 842.8 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.73  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

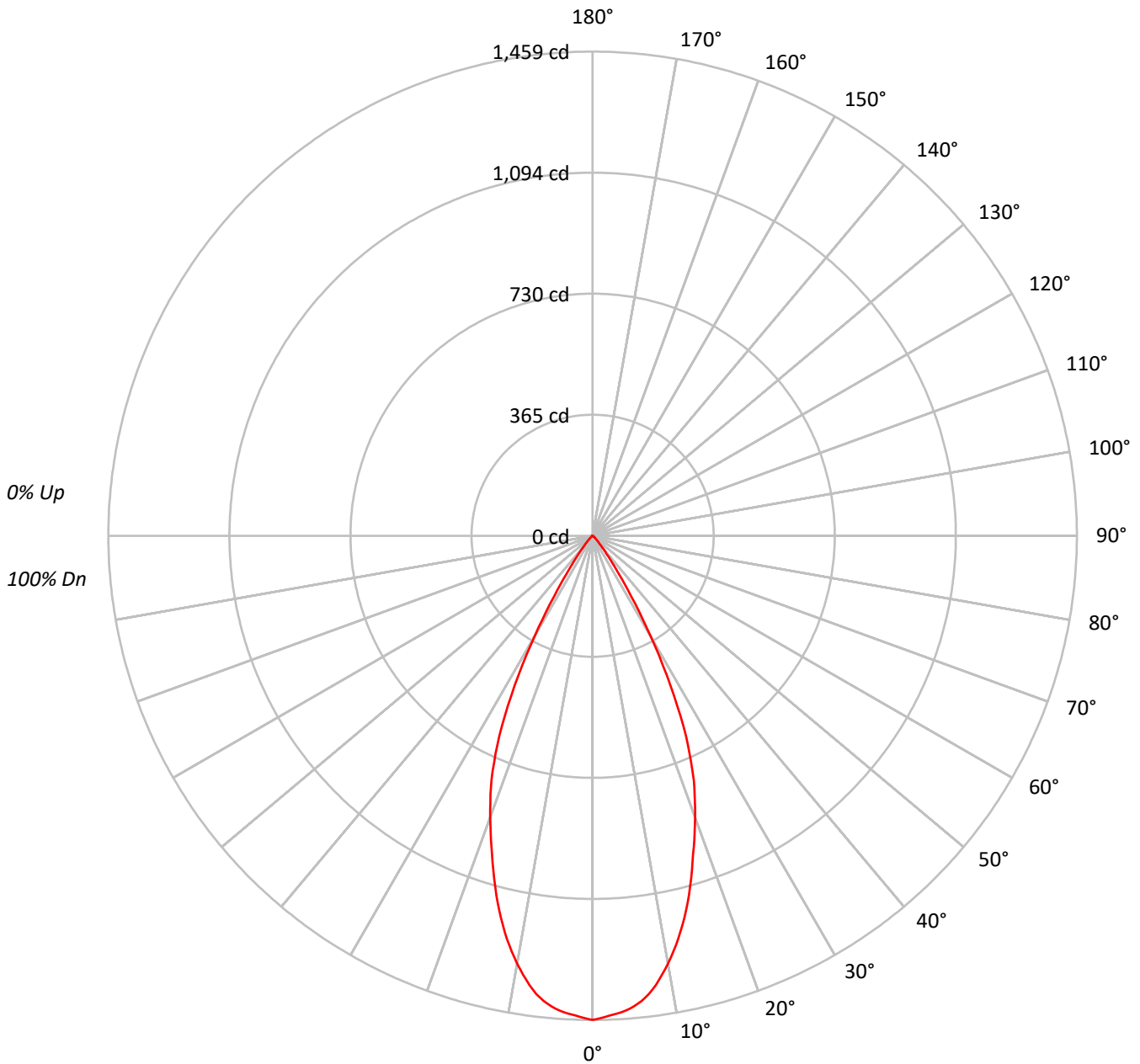
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 | 112 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 99  | 98  | 97  | 97  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 95  | 97  | 95  | 93  | 95  | 93  | 91  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 91  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 88  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 80  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 78  | 76  |
| 6   | 92  | 84  | 79  | 75  | 91  | 84  | 79  | 75  | 82  | 78  | 75  | 81  | 77  | 74  | 80  | 76  | 74  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 69  |
| 8   | 85  | 76  | 71  | 68  | 84  | 76  | 71  | 67  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 67  | 65  |
| 9   | 81  | 73  | 68  | 64  | 80  | 72  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 64  | 62  |
| 10  | 78  | 70  | 65  | 61  | 77  | 69  | 64  | 61  | 69  | 64  | 61  | 68  | 64  | 61  | 67  | 63  | 61  | 59  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 719766 |
| 5°  | 705132 |
| 10° | 655723 |
| 15° | 572517 |
| 20° | 473992 |
| 25° | 362547 |
| 30° | 198364 |
| 35° | 73418  |
| 40° | 25440  |
| 45° | 11443  |
| 50° | 5373   |
| 55° | 2666   |
| 60° | 789    |
| 65° | 467    |
| 70° | 577    |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 132.3  | 15.7      |
| 10°-20°   | 309.8  | 36.8      |
| 20°-30°   | 292.8  | 34.7      |
| 30°-40°   | 90.1   | 10.7      |
| 40°-50°   | 14.2   | 1.7       |
| 50°-60°   | 3.0    | 0.4       |
| 60°-70°   | 0.4    | 0.1       |
| 70°-80°   | 0.1    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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°    | 734.9  | 87.2      |
| 0°-40°    | 825.1  | 97.9      |
| 0°-60°    | 842.3  | 99.9      |
| 0°-90°    | 842.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 842.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1459 |      |
| 5°  | 1424 | 132  |
| 15° | 1121 | 310  |
| 25° | 666  | 293  |
| 35° | 122  | 90   |
| 45° | 16   | 14   |
| 55° | 3    | 3    |
| 65° | 0    | 0    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1458.9 |
| 1°    | 1453.5 |
| 2°    | 1446.8 |
| 3°    | 1441.4 |
| 4°    | 1434.3 |
| 5°    | 1423.8 |
| 6°    | 1410.1 |
| 7°    | 1391.7 |
| 8°    | 1367.1 |
| 9°    | 1338.6 |
| 10°   | 1308.9 |
| 11°   | 1276.0 |
| 12°   | 1241.3 |
| 13°   | 1203.3 |
| 14°   | 1163.9 |
| 15°   | 1120.9 |
| 17.5° | 1007.1 |
| 20°   | 902.8  |
| 22.5° | 796.9  |
| 25°   | 666.0  |
| 27.5° | 508.1  |
| 30°   | 348.2  |
| 32.5° | 213.8  |
| 35°   | 121.9  |
| 37.5° | 68.0   |
| 40°   | 39.5   |
| 42.5° | 24.6   |
| 45°   | 16.4   |
| 47.5° | 10.9   |
| 50°   | 7.0    |
| 52.5° | 4.7    |
| 55°   | 3.1    |
| 57.5° | 2.0    |
| 60°   | 0.8    |
| 62.5° | 0.4    |
| 65°   | 0.4    |
| 67.5° | 0.4    |
| 70°   | 0.4    |
| 72.5° | 0.0    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







|       |  |     |
|-------|--|-----|
| 85°   |  | 0.0 |
| 87.5° |  | 0.0 |



(END OF REPORT)