

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: P224694

Luminaire Tested: **LD2B15D010 EU2B15FL408030 2LBDLC\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B15D010 EU2B15FL408030 2LBDLC\*MW  
Description: 1500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED CAST ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1276.8 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

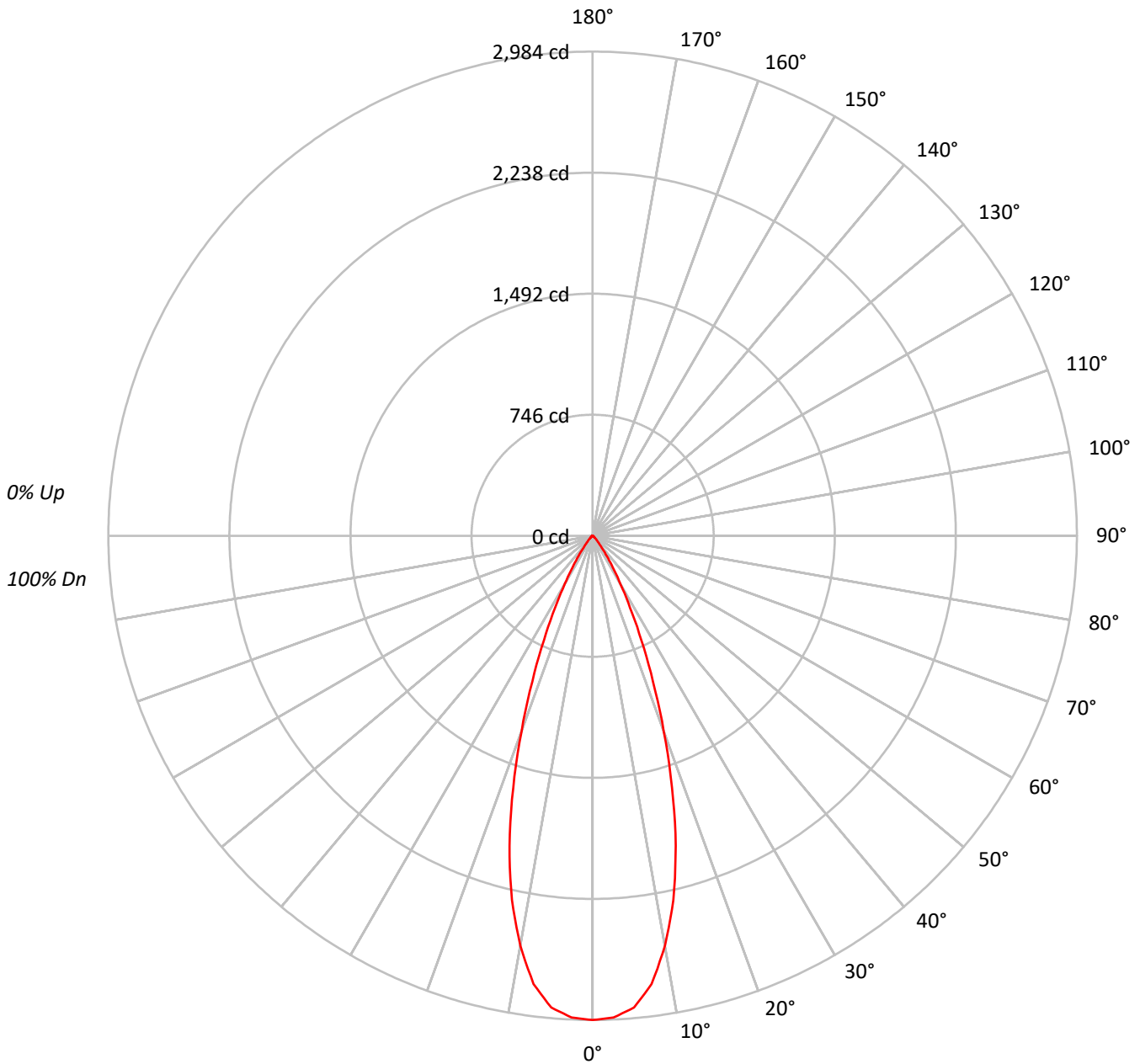
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1155918 |
| 5°  | 1134826 |
| 10° | 1008830 |
| 15° | 793398  |
| 20° | 527952  |
| 25° | 303104  |
| 30° | 153100  |
| 35° | 72017   |
| 40° | 28973   |
| 45° | 14352   |
| 50° | 7894    |
| 55° | 5538    |
| 60° | 5113    |
| 65° | 3025    |
| 70° | 3737    |
| 75° | 2395    |
| 80° | 3569    |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 267.3  | 20.9      |
| 10°-20°   | 535.9  | 42.0      |
| 20°-30°   | 333.4  | 26.1      |
| 30°-40°   | 102.5  | 8.0       |
| 40°-50°   | 22.5   | 1.8       |
| 50°-60°   | 8.0    | 0.6       |
| 60°-70°   | 4.1    | 0.3       |
| 70°-80°   | 2.4    | 0.2       |
| 80°-90°   | 0.7    | 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°    | 1136.6 | 89.0      |
| 0°-40°    | 1239.1 | 97.1      |
| 0°-60°    | 1269.7 | 99.4      |
| 0°-90°    | 1276.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1276.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2984 |      |
| 5°  | 2919 | 267  |
| 15° | 1978 | 536  |
| 25° | 709  | 333  |
| 35° | 152  | 102  |
| 45° | 26   | 23   |
| 55° | 8    | 8    |
| 65° | 3    | 4    |
| 75° | 2    | 2    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2984.2 |
| 2.5°  | 2971.1 |
| 5°    | 2918.6 |
| 7.5°  | 2786.0 |
| 10°   | 2564.9 |
| 12.5° | 2299.5 |
| 15°   | 1978.5 |
| 17.5° | 1628.0 |
| 20°   | 1280.8 |
| 22.5° | 971.2  |
| 25°   | 709.2  |
| 27.5° | 499.5  |
| 30°   | 342.3  |
| 32.5° | 230.9  |
| 35°   | 152.3  |
| 37.5° | 91.7   |
| 40°   | 57.3   |
| 42.5° | 39.3   |
| 45°   | 26.2   |
| 47.5° | 18.0   |
| 50°   | 13.1   |
| 52.5° | 11.5   |
| 55°   | 8.2    |
| 57.5° | 6.6    |
| 60°   | 6.6    |
| 62.5° | 4.9    |
| 65°   | 3.3    |
| 67.5° | 3.3    |
| 70°   | 3.3    |
| 72.5° | 3.3    |
| 75°   | 1.6    |
| 77.5° | 1.6    |
| 80°   | 1.6    |
| 82.5° | 1.6    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)