

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: P#

Luminaire Tested: **LD2B10D010 EU2B10FL409730 2LBD\*LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29152)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B10D010 EU2B10FL409730 2LBD\*LI  
Description: 1000 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
SPUN ROUND TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 761.8 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.58  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

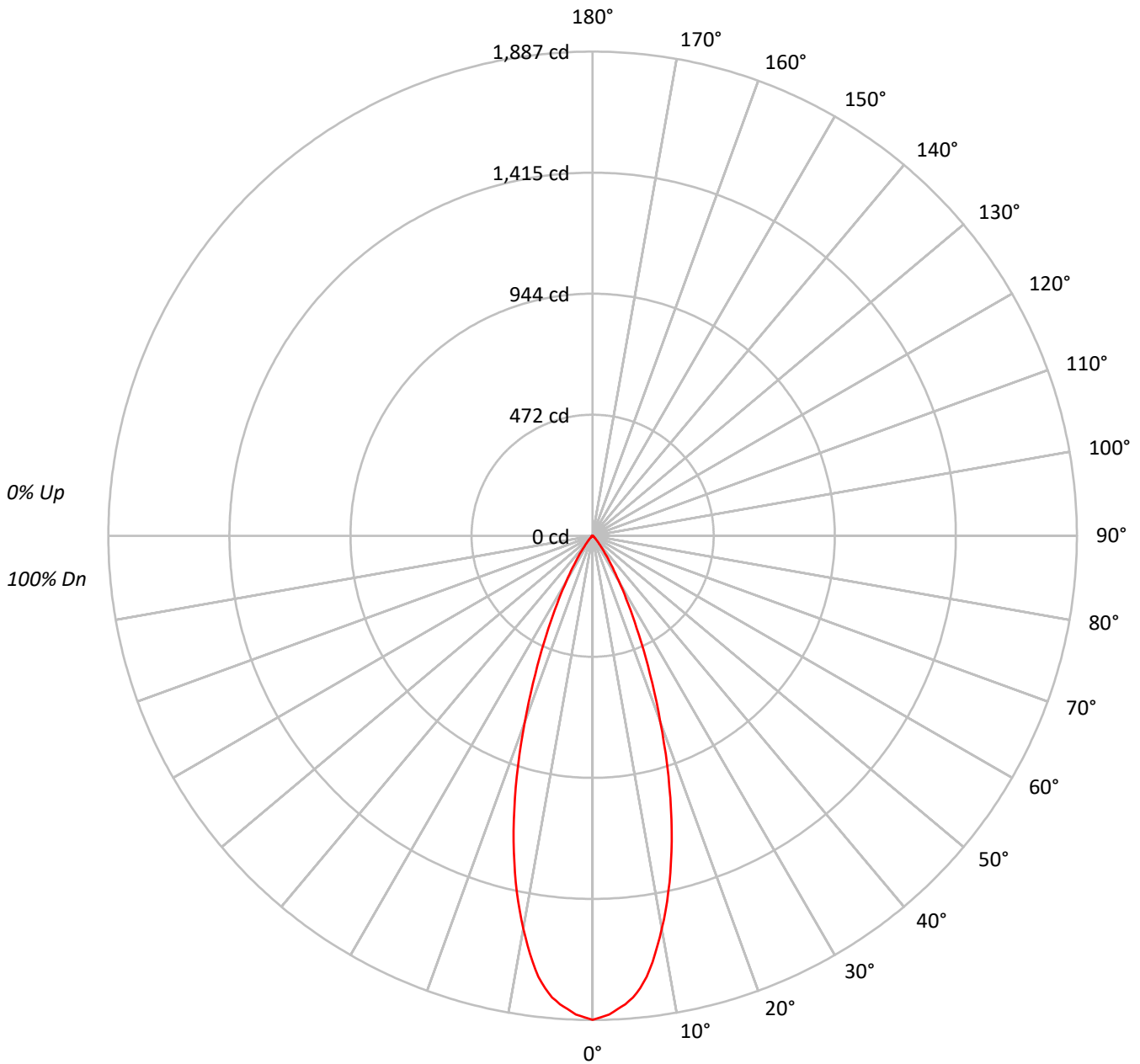
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 100 | 100 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 96  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 97  | 98  | 96  | 95  | 96  | 94  | 93  | 91  | 91  | 91  | 91  |
| 3   | 106 | 101 | 96  | 93  | 104 | 99  | 95  | 92  | 97  | 94  | 91  | 94  | 92  | 90  | 92  | 90  | 88  | 87  | 87  | 87  | 87  |
| 4   | 102 | 96  | 91  | 88  | 100 | 95  | 90  | 87  | 93  | 89  | 86  | 91  | 88  | 85  | 89  | 86  | 84  | 83  | 83  | 83  | 83  |
| 5   | 98  | 91  | 86  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 79  | 79  | 79  | 79  |
| 6   | 94  | 87  | 82  | 79  | 93  | 86  | 82  | 79  | 85  | 81  | 78  | 84  | 80  | 78  | 83  | 79  | 77  | 76  | 76  | 76  | 76  |
| 7   | 91  | 83  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 78  | 75  | 81  | 77  | 74  | 80  | 76  | 74  | 73  | 73  | 73  | 73  |
| 8   | 88  | 80  | 75  | 72  | 87  | 80  | 75  | 72  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 71  | 70  | 70  | 70  | 70  |
| 9   | 85  | 77  | 72  | 69  | 84  | 76  | 72  | 69  | 76  | 71  | 69  | 75  | 71  | 68  | 74  | 71  | 68  | 67  | 67  | 67  | 67  |
| 10  | 82  | 74  | 69  | 66  | 81  | 74  | 69  | 66  | 73  | 69  | 66  | 72  | 68  | 66  | 72  | 68  | 66  | 65  | 65  | 65  | 65  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 730767 |
| 5°  | 702258 |
| 10° | 611300 |
| 15° | 477362 |
| 20° | 317480 |
| 25° | 181769 |
| 30° | 90393  |
| 35° | 41565  |
| 40° | 16636  |
| 45° | 7614   |
| 50° | 3555   |
| 55° | 1958   |
| 60° | 1162   |
| 65° | 0      |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 164.4  | 21.6      |
| 10°-20°   | 322.8  | 42.4      |
| 20°-30°   | 199.8  | 26.2      |
| 30°-40°   | 59.8   | 7.8       |
| 40°-50°   | 12.0   | 1.6       |
| 50°-60°   | 2.9    | 0.4       |
| 60°-70°   | 0.2    | 0.0       |
| 70°-80°   | 0.0    | 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°    | 686.9  | 90.2      |
| 0°-40°    | 746.7  | 98.0      |
| 0°-60°    | 761.6  | 100.0     |
| 0°-90°    | 761.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 761.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1887 |      |
| 5°  | 1806 | 164  |
| 15° | 1190 | 323  |
| 25° | 425  | 200  |
| 35° | 88   | 60   |
| 45° | 14   | 12   |
| 55° | 3    | 3    |
| 65° | 0    | 0    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1886.6 |
| 1°    | 1876.3 |
| 2°    | 1866.8 |
| 3°    | 1847.8 |
| 4°    | 1830.2 |
| 5°    | 1806.1 |
| 6°    | 1773.1 |
| 7°    | 1731.4 |
| 8°    | 1677.9 |
| 9°    | 1617.2 |
| 10°   | 1554.2 |
| 11°   | 1489.1 |
| 12°   | 1419.5 |
| 13°   | 1347.0 |
| 14°   | 1269.4 |
| 15°   | 1190.4 |
| 17.5° | 981.7  |
| 20°   | 770.2  |
| 22.5° | 582.7  |
| 25°   | 425.3  |
| 27.5° | 298.7  |
| 30°   | 202.1  |
| 32.5° | 133.2  |
| 35°   | 87.9   |
| 37.5° | 54.9   |
| 40°   | 32.9   |
| 42.5° | 21.2   |
| 45°   | 13.9   |
| 47.5° | 8.8    |
| 50°   | 5.9    |
| 52.5° | 4.4    |
| 55°   | 2.9    |
| 57.5° | 2.2    |
| 60°   | 1.5    |
| 62.5° | 0.0    |
| 65°   | 0.0    |
| 67.5° | 0.0    |
| 70°   | 0.0    |
| 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)