

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: **LD2B05D010 EU2B0510SP158030 2LBPINW**

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 (P14823)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B0510SP158030 2LBPINW  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
SPOT OPTIC  
ROUND PINHOLE WHITE OCULUS  
Light Source: -  
Ballast/Driver: -

**Summary**

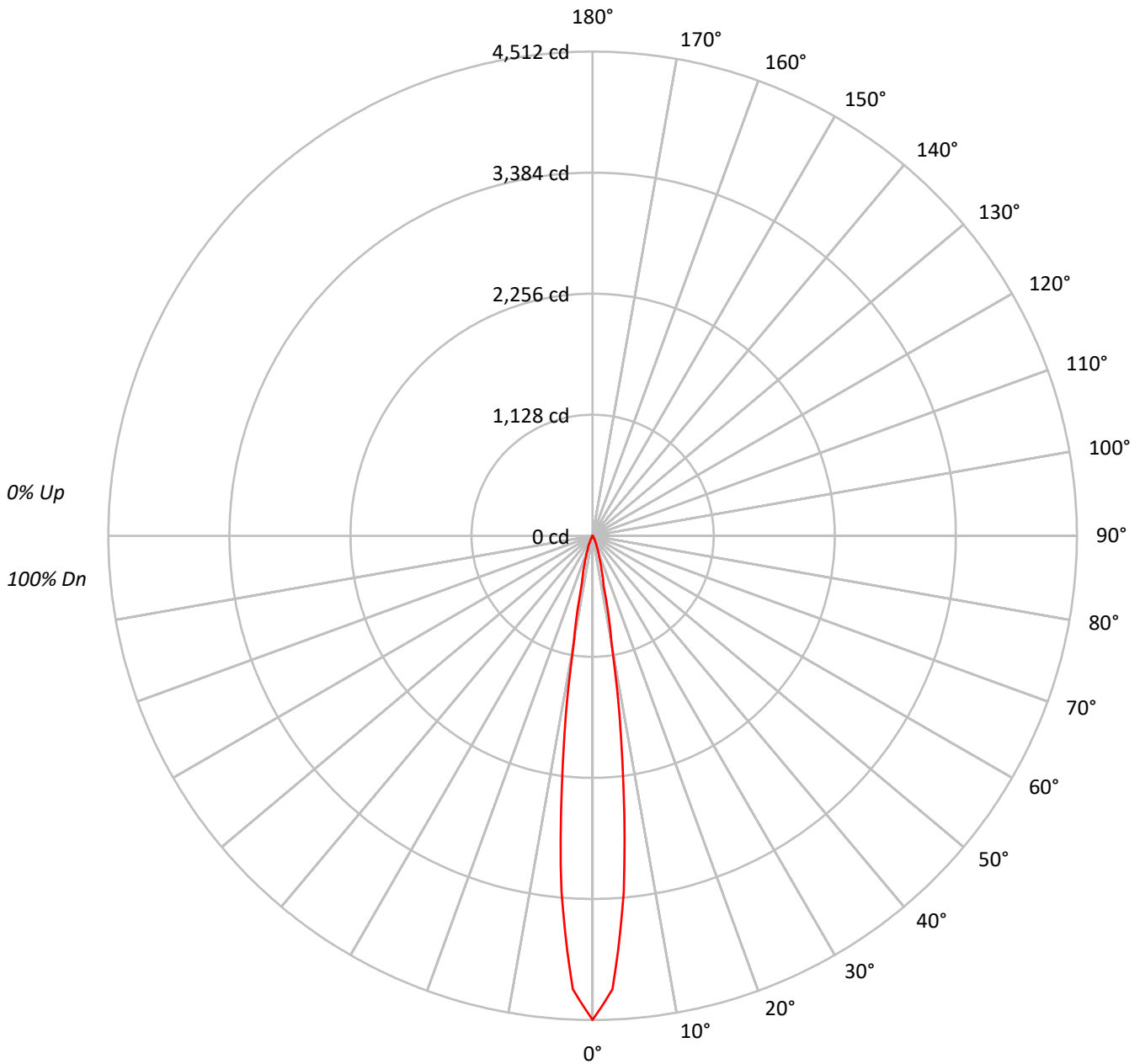
Lumens per Lamp: N/A  
Luminaire Lumens: 381.0 lumens  
Efficiency: N/A  
Efficacy: 52.2 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.24  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.3  
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   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98  | 98  | 98  | 98  |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 99  | 98  | 96  | 96  | 96  | 96  |
| 3   | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99  | 100 | 99  | 97  | 98  | 97  | 96  | 95  | 95  | 95  | 95  |
| 4   | 108 | 103 | 100 | 98  | 106 | 102 | 99  | 97  | 100 | 98  | 96  | 99  | 97  | 95  | 97  | 95  | 94  | 93  | 93  | 93  | 93  |
| 5   | 105 | 101 | 97  | 95  | 104 | 100 | 97  | 95  | 98  | 96  | 94  | 97  | 95  | 93  | 96  | 94  | 92  | 91  | 91  | 91  | 91  |
| 6   | 103 | 98  | 95  | 93  | 102 | 98  | 95  | 92  | 97  | 94  | 92  | 95  | 93  | 91  | 94  | 92  | 91  | 90  | 90  | 90  | 90  |
| 7   | 101 | 96  | 93  | 91  | 101 | 96  | 93  | 91  | 95  | 92  | 90  | 94  | 92  | 90  | 93  | 91  | 89  | 89  | 89  | 89  | 89  |
| 8   | 100 | 95  | 91  | 89  | 99  | 94  | 91  | 89  | 93  | 91  | 89  | 93  | 90  | 88  | 92  | 90  | 88  | 87  | 87  | 87  | 87  |
| 9   | 98  | 93  | 90  | 88  | 97  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 89  | 87  | 91  | 89  | 87  | 86  | 86  | 86  | 86  |
| 10  | 97  | 92  | 88  | 86  | 96  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 88  | 86  | 90  | 87  | 86  | 85  | 85  | 85  | 85  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1748141 |
| 5°  | 1296033 |
| 10° | 402985  |
| 15° | 128410  |
| 20° | 55956   |
| 25° | 24797   |
| 30° | 9172    |
| 35° | 4447    |
| 40° | 3035    |
| 45° | 1863    |
| 50° | 1025    |
| 55° | 1148    |
| 60° | 697     |
| 65° | 0       |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 241.0  | 63.2      |
| 10°-20°   | 100.7  | 26.4      |
| 20°-30°   | 28.8   | 7.6       |
| 30°-40°   | 6.5    | 1.7       |
| 40°-50°   | 2.7    | 0.7       |
| 50°-60°   | 1.2    | 0.3       |
| 60°-70°   | 0.1    | 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°    | 370.5  | 97.2      |
| 0°-40°    | 377.0  | 98.9      |
| 0°-60°    | 380.9  | 100.0     |
| 0°-90°    | 381.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 381.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4512 |      |
| 5°  | 3332 | 241  |
| 15° | 320  | 101  |
| 25° | 58   | 29   |
| 35° | 9    | 6    |
| 45° | 3    | 3    |
| 55° | 2    | 1    |
| 65° | 0    | 0    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 4511.5 |
| 2.5°  | 4229.9 |
| 5°    | 3332.0 |
| 7.5°  | 2124.3 |
| 10°   | 1024.2 |
| 12.5° | 476.2  |
| 15°   | 320.1  |
| 17.5° | 198.9  |
| 20°   | 135.7  |
| 22.5° | 92.2   |
| 25°   | 58.0   |
| 27.5° | 34.1   |
| 30°   | 20.5   |
| 32.5° | 12.8   |
| 35°   | 9.4    |
| 37.5° | 6.8    |
| 40°   | 6.0    |
| 42.5° | 4.3    |
| 45°   | 3.4    |
| 47.5° | 2.6    |
| 50°   | 1.7    |
| 52.5° | 1.7    |
| 55°   | 1.7    |
| 57.5° | 0.9    |
| 60°   | 0.9    |
| 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    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)