

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: P204083

Luminaire Tested: **LD6B30D010 EU6B30509727 6LBNMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204083  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B30D010 EU6B30509727 6LBNMW1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W  
DL3-29.67 W DLE-29.73 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1523.2 lumens  
Efficiency: N/A  
Efficacy: 54.4 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

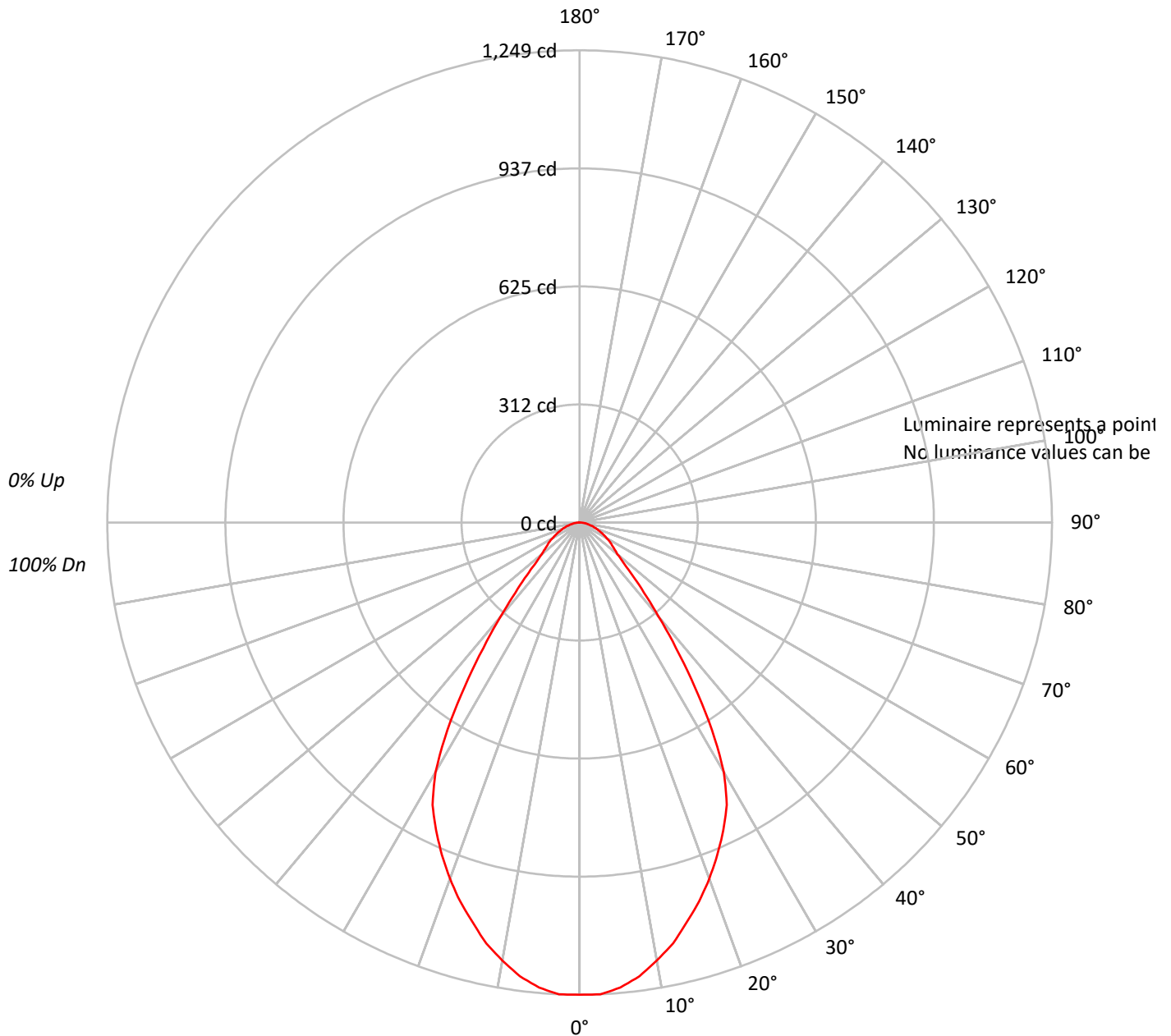
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|--|-----|-----|-----|--|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |  | 20  |     |     |  |  | 20  |     |     |  |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |  | 50  |     |     |  |  | 30  |     |     |  |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  |  | 50  | 30  | 10  |  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 102 |
| 1   | 112 | 108 | 105 | 103 | 109 | 106 | 103 | 101 |  | 102 | 100 | 98  |  |  | 98  | 97  | 95  |  |  | 95  |
| 2   | 105 | 99  | 94  | 90  | 102 | 97  | 92  | 89  |  | 94  | 90  | 87  |  |  | 91  | 87  | 85  |  |  | 88  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  |  | 86  | 81  | 77  |  |  | 84  | 80  | 76  |  |  | 81  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  |  | 80  | 74  | 70  |  |  | 77  | 73  | 69  |  |  | 75  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 64  |  | 74  | 68  | 64  |  |  | 72  | 67  | 63  |  |  | 70  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 59  |  | 68  | 63  | 58  |  |  | 67  | 62  | 58  |  |  | 66  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 59  | 54  |  | 64  | 58  | 54  |  |  | 63  | 57  | 53  |  |  | 61  |
| 8   | 72  | 61  | 55  | 50  | 71  | 61  | 54  | 50  |  | 60  | 54  | 49  |  |  | 59  | 53  | 49  |  |  | 58  |
| 9   | 69  | 58  | 51  | 46  | 67  | 57  | 51  | 46  |  | 56  | 50  | 46  |  |  | 55  | 50  | 46  |  |  | 54  |
| 10  | 65  | 54  | 47  | 43  | 64  | 54  | 47  | 43  |  | 53  | 47  | 43  |  |  | 52  | 46  | 43  |  |  | 51  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.0  | 7.6       |
| 10°-20°   | 307.5  | 20.2      |
| 20°-30°   | 410.5  | 27.0      |
| 30°-40°   | 331.2  | 21.7      |
| 40°-50°   | 158.7  | 10.4      |
| 50°-60°   | 94.1   | 6.2       |
| 60°-70°   | 62.5   | 4.1       |
| 70°-80°   | 33.5   | 2.2       |
| 80°-90°   | 9.2    | 0.6       |
| 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°    | 834.0  | 54.8      |
| 0°-40°    | 1165.2 | 76.5      |
| 0°-60°    | 1417.9 | 93.1      |
| 0°-90°    | 1523.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1523.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1249 |      |
| 5°  | 1235 | 116  |
| 15° | 1094 | 307  |
| 25° | 898  | 411  |
| 35° | 530  | 331  |
| 45° | 196  | 159  |
| 55° | 104  | 94   |
| 65° | 63   | 63   |
| 75° | 32   | 34   |
| 85° | 7    | 9    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1249.2 |
| 2.5°  | 1249.2 |
| 5°    | 1234.7 |
| 7.5°  | 1210.5 |
| 10°   | 1176.6 |
| 12.5° | 1140.3 |
| 15°   | 1094.3 |
| 17.5° | 1050.7 |
| 20°   | 1002.3 |
| 22.5° | 951.4  |
| 25°   | 898.2  |
| 27.5° | 842.5  |
| 30°   | 762.6  |
| 32.5° | 651.2  |
| 35°   | 530.2  |
| 37.5° | 418.8  |
| 40°   | 324.4  |
| 42.5° | 251.8  |
| 45°   | 196.1  |
| 47.5° | 154.9  |
| 50°   | 130.7  |
| 52.5° | 116.2  |
| 55°   | 104.1  |
| 57.5° | 94.4   |
| 60°   | 82.3   |
| 62.5° | 72.6   |
| 65°   | 62.9   |
| 67.5° | 53.3   |
| 70°   | 46.0   |
| 72.5° | 38.7   |
| 75°   | 31.5   |
| 77.5° | 24.2   |
| 80°   | 19.4   |
| 82.5° | 14.5   |
| 85°   | 7.3    |
| 87.5° | 2.4    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)