

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: P203567

Luminaire Tested: **LD6B30D010 EU6B30509050 6LBMMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203567  
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 EU6B30509050 6LBMMW1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM 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: 2065.4 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

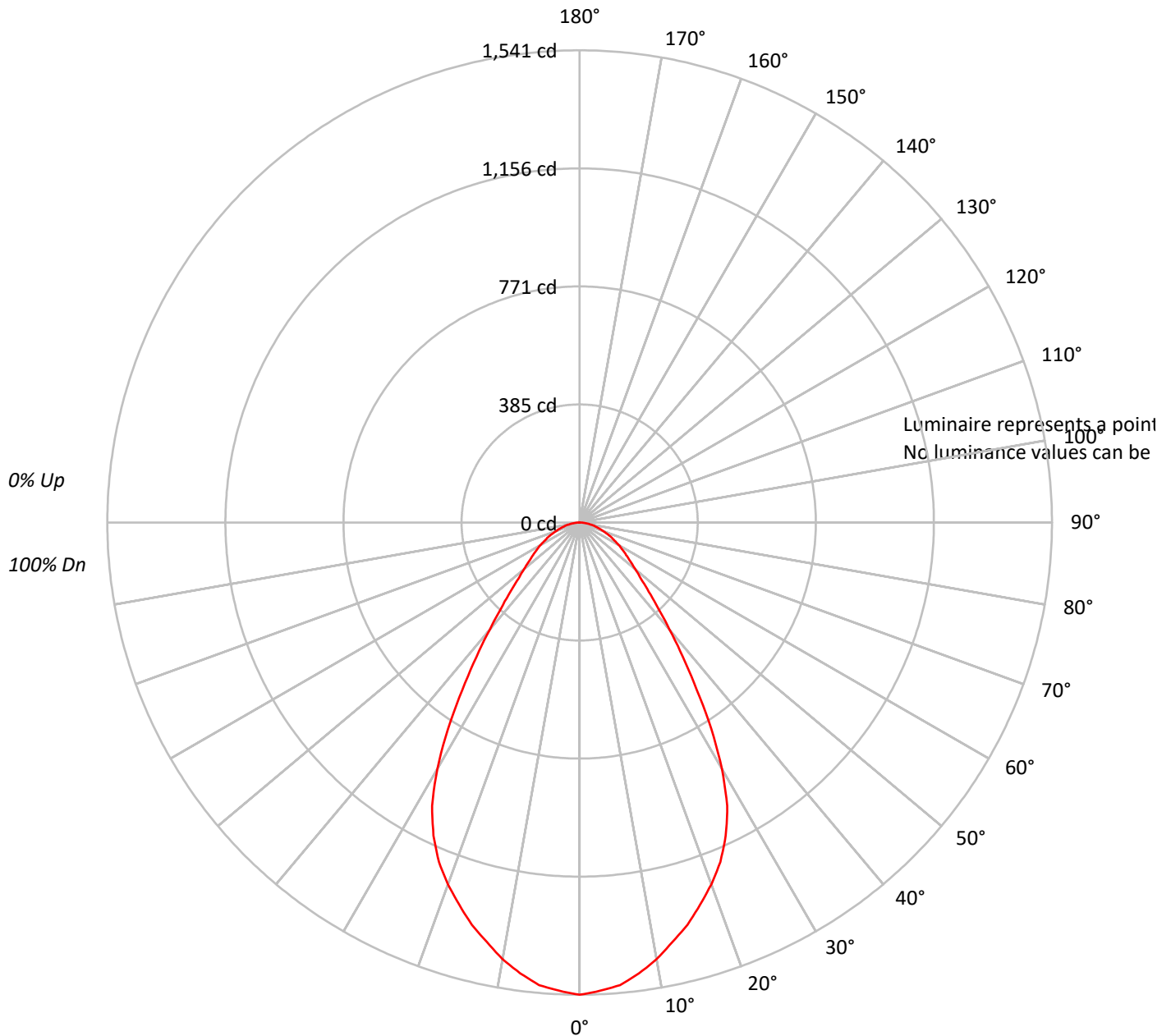
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| 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   | 111 | 108 | 104 | 101 | 109 | 105 | 103 | 100 | 101 | 99  | 97  |  | 98  | 96  | 94  |  | 94  |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  |  | 89  | 86  | 83  |  | 86  |
| 3   | 97  | 88  | 82  | 77  | 95  | 87  | 81  | 76  | 84  | 79  | 75  |  | 82  | 77  | 74  |  | 79  |
| 4   | 90  | 81  | 74  | 68  | 88  | 80  | 73  | 68  | 77  | 72  | 67  |  | 75  | 70  | 66  |  | 73  |
| 5   | 85  | 74  | 67  | 61  | 83  | 73  | 66  | 61  | 71  | 65  | 61  |  | 69  | 64  | 60  |  | 68  |
| 6   | 79  | 68  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  |  | 64  | 59  | 55  |  | 63  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  |  | 60  | 54  | 50  |  | 59  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  |  | 56  | 50  | 46  |  | 55  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  |  | 52  | 47  | 43  |  | 51  |
| 10  | 63  | 51  | 45  | 40  | 62  | 51  | 44  | 40  | 50  | 44  | 40  |  | 49  | 44  | 40  |  | 48  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.4  | 6.9       |
| 10°-20°   | 381.3  | 18.5      |
| 20°-30°   | 512.0  | 24.8      |
| 30°-40°   | 420.0  | 20.3      |
| 40°-50°   | 252.2  | 12.2      |
| 50°-60°   | 167.6  | 8.1       |
| 60°-70°   | 112.3  | 5.4       |
| 70°-80°   | 60.5   | 2.9       |
| 80°-90°   | 17.0   | 0.8       |
| 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°    | 1035.7 | 50.1      |
| 0°-40°    | 1455.7 | 70.5      |
| 0°-60°    | 1875.5 | 90.8      |
| 0°-90°    | 2065.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2065.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1541 |      |
| 5°  | 1516 | 142  |
| 15° | 1359 | 381  |
| 25° | 1128 | 512  |
| 35° | 667  | 420  |
| 45° | 319  | 252  |
| 55° | 185  | 168  |
| 65° | 114  | 112  |
| 75° | 57   | 60   |
| 85° | 14   | 17   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1541.1 |
| 2.5°  | 1529.7 |
| 5°    | 1515.5 |
| 7.5°  | 1484.1 |
| 10°   | 1447.1 |
| 12.5° | 1401.5 |
| 15°   | 1358.8 |
| 17.5° | 1307.5 |
| 20°   | 1256.2 |
| 22.5° | 1199.3 |
| 25°   | 1128.1 |
| 27.5° | 1042.6 |
| 30°   | 928.7  |
| 32.5° | 800.5  |
| 35°   | 666.6  |
| 37.5° | 552.6  |
| 40°   | 455.8  |
| 42.5° | 378.9  |
| 45°   | 319.0  |
| 47.5° | 270.6  |
| 50°   | 236.4  |
| 52.5° | 207.9  |
| 55°   | 185.2  |
| 57.5° | 165.2  |
| 60°   | 148.1  |
| 62.5° | 128.2  |
| 65°   | 113.9  |
| 67.5° | 96.9   |
| 70°   | 82.6   |
| 72.5° | 68.4   |
| 75°   | 57.0   |
| 77.5° | 45.6   |
| 80°   | 34.2   |
| 82.5° | 25.6   |
| 85°   | 14.2   |
| 87.5° | 5.7    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)