

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: P203455

Luminaire Tested: **LD6B30D010 EU6B30508030 6LBMB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203455  
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 EU6B30508030 6LBMB1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH SPECULAR BLACK 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: 1286.5 lumens  
Efficiency: N/A  
Efficacy: 45.9 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.86  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

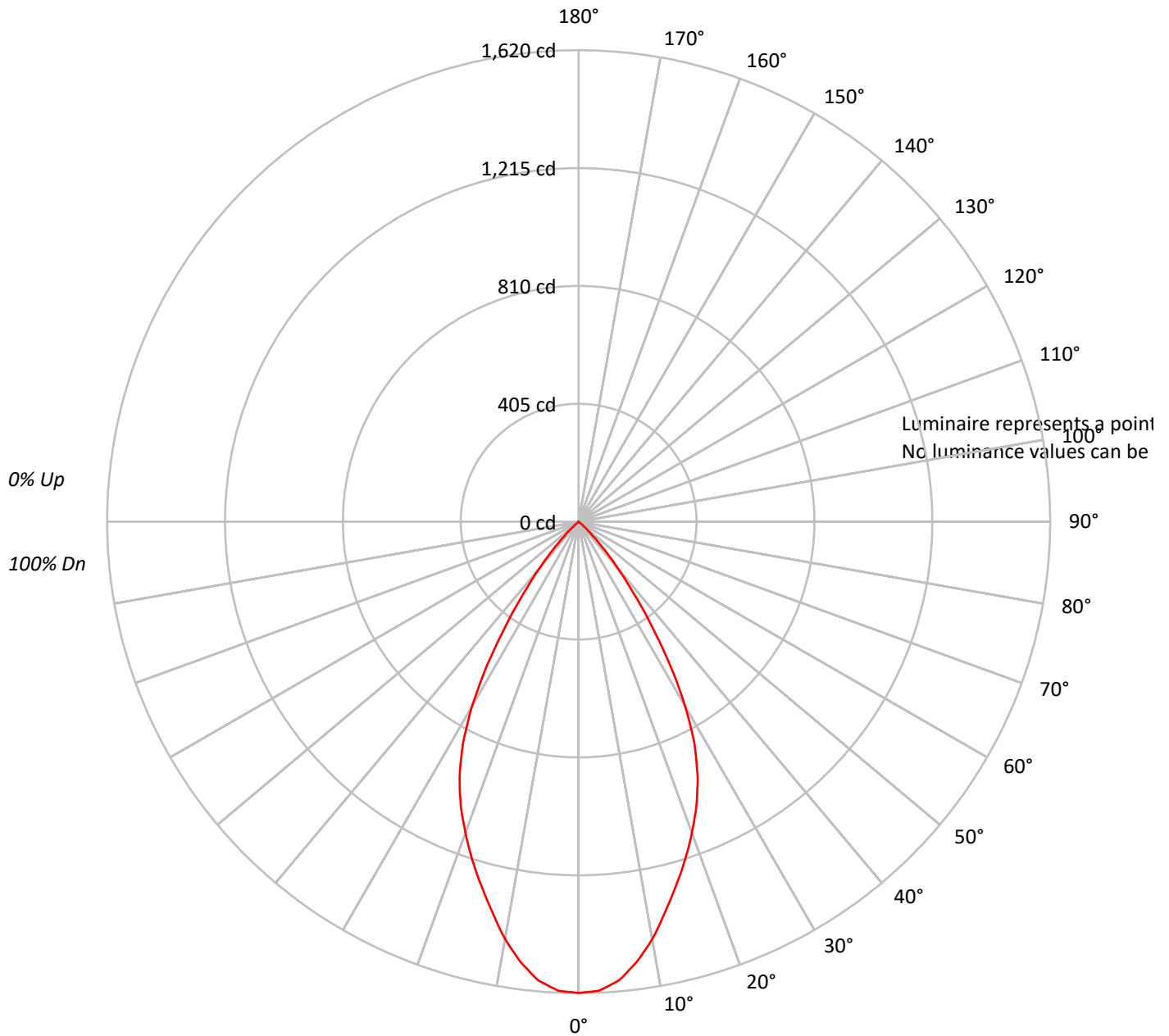
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 |  | 105 | 103 | 102 |  |  | 101 | 100 | 99  |  |  | 98  |
| 2   | 108 | 104 | 100 | 96  | 106 | 102 | 98  | 95  |  | 99  | 96  | 93  |  |  | 96  | 93  | 91  |  |  | 93  |
| 3   | 103 | 97  | 92  | 88  | 101 | 95  | 91  | 87  |  | 93  | 89  | 86  |  |  | 90  | 87  | 85  |  |  | 88  |
| 4   | 98  | 91  | 85  | 81  | 96  | 90  | 85  | 81  |  | 87  | 83  | 80  |  |  | 85  | 82  | 79  |  |  | 84  |
| 5   | 93  | 85  | 79  | 75  | 92  | 84  | 79  | 75  |  | 82  | 78  | 74  |  |  | 81  | 77  | 74  |  |  | 79  |
| 6   | 89  | 80  | 74  | 70  | 87  | 79  | 74  | 70  |  | 78  | 73  | 69  |  |  | 76  | 72  | 69  |  |  | 75  |
| 7   | 84  | 75  | 69  | 65  | 83  | 75  | 69  | 65  |  | 73  | 68  | 65  |  |  | 72  | 68  | 65  |  |  | 71  |
| 8   | 80  | 71  | 65  | 61  | 79  | 71  | 65  | 61  |  | 69  | 64  | 61  |  |  | 68  | 64  | 61  |  |  | 67  |
| 9   | 77  | 67  | 61  | 58  | 76  | 67  | 61  | 57  |  | 66  | 61  | 57  |  |  | 65  | 60  | 57  |  |  | 64  |
| 10  | 73  | 64  | 58  | 54  | 72  | 63  | 58  | 54  |  | 62  | 57  | 54  |  |  | 62  | 57  | 54  |  |  | 61  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.9  | 11.4      |
| 10°-20°   | 362.6  | 28.2      |
| 20°-30°   | 436.8  | 33.9      |
| 30°-40°   | 276.3  | 21.5      |
| 40°-50°   | 63.2   | 4.9       |
| 50°-60°   | 0.7    | 0.1       |
| 60°-70°   | 0.0    | 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°    | 946.3  | 73.6      |
| 0°-40°    | 1222.6 | 95.0      |
| 0°-60°    | 1286.5 | 100.0     |
| 0°-90°    | 1286.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1286.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1620 |      |
| 5°  | 1583 | 147  |
| 15° | 1294 | 363  |
| 25° | 968  | 437  |
| 35° | 436  | 276  |
| 45° | 70   | 63   |
| 55° | 0    | 1    |
| 65° | 0    | 0    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1619.6 |
| 2.5°  | 1613.0 |
| 5°    | 1583.0 |
| 7.5°  | 1526.5 |
| 10°   | 1456.7 |
| 12.5° | 1373.5 |
| 15°   | 1293.7 |
| 17.5° | 1217.2 |
| 20°   | 1137.4 |
| 22.5° | 1057.6 |
| 25°   | 967.8  |
| 27.5° | 861.4  |
| 30°   | 731.7  |
| 32.5° | 585.3  |
| 35°   | 435.7  |
| 37.5° | 309.3  |
| 40°   | 209.5  |
| 42.5° | 129.7  |
| 45°   | 69.8   |
| 47.5° | 29.9   |
| 50°   | 6.7    |
| 52.5° | 0.0    |
| 55°   | 0.0    |
| 57.5° | 0.0    |
| 60°   | 0.0    |
| 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)