

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: P203579

Luminaire Tested: **LD6B40D010 EU6B30509040 6LBMMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203579  
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: LD6B40D010 EU6B30509040 6LBMMW1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-43.02 W DE010-42.54 W D5LT-42.539 W DMX-41.87 W DL2-41.57  
W DL3-44.71 W DLE-39.33 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2907.2 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

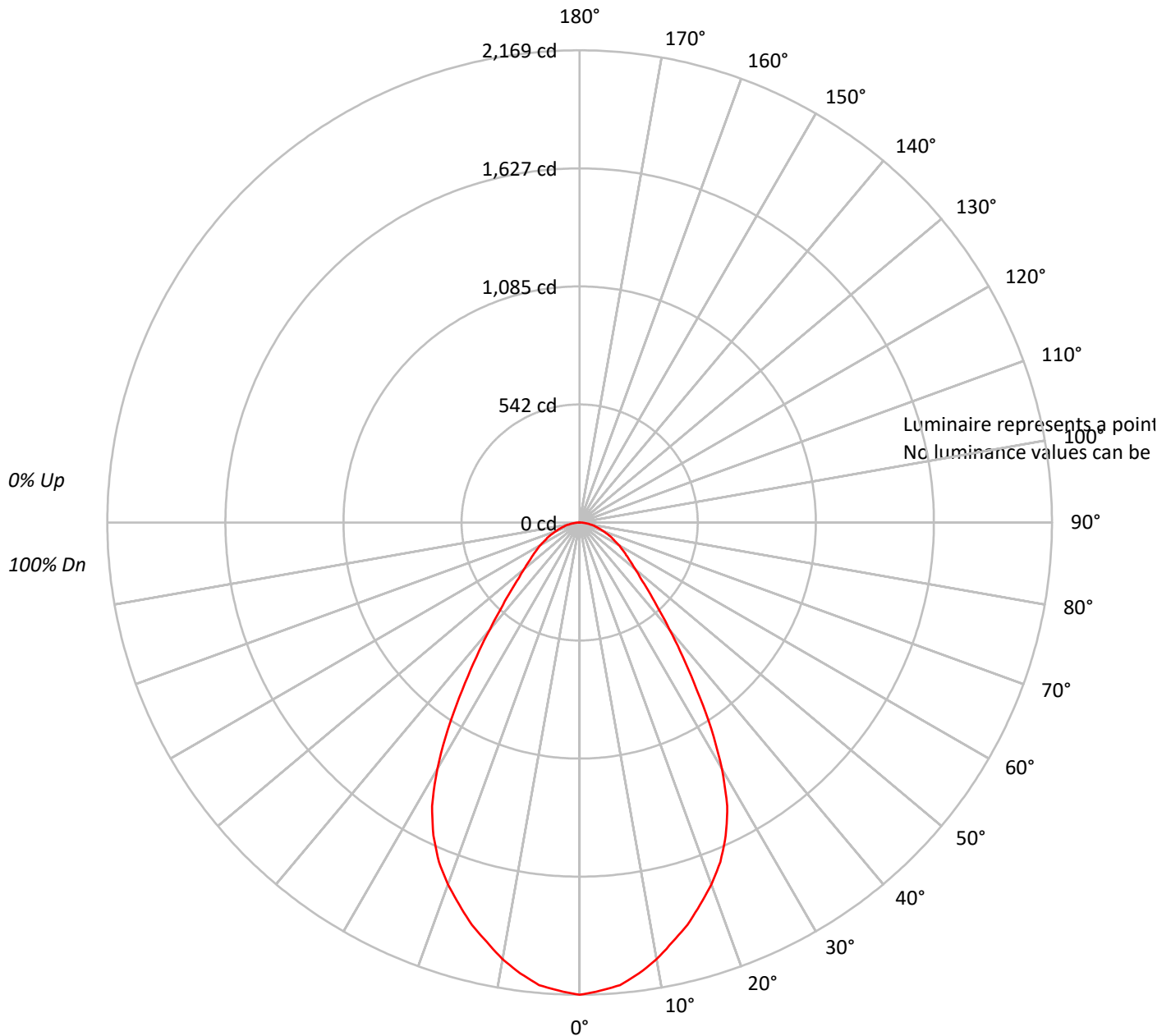
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 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°    | 200.4  | 6.9       |
| 10°-20°   | 536.8  | 18.5      |
| 20°-30°   | 720.7  | 24.8      |
| 30°-40°   | 591.2  | 20.3      |
| 40°-50°   | 355.0  | 12.2      |
| 50°-60°   | 235.9  | 8.1       |
| 60°-70°   | 158.1  | 5.4       |
| 70°-80°   | 85.1   | 2.9       |
| 80°-90°   | 24.0   | 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°    | 1457.9 | 50.1      |
| 0°-40°    | 2049.1 | 70.5      |
| 0°-60°    | 2640.0 | 90.8      |
| 0°-90°    | 2907.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2907.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2169 |      |
| 5°  | 2133 | 200  |
| 15° | 1913 | 537  |
| 25° | 1588 | 721  |
| 35° | 938  | 591  |
| 45° | 449  | 355  |
| 55° | 261  | 236  |
| 65° | 160  | 158  |
| 75° | 80   | 85   |
| 85° | 20   | 24   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2169.3 |
| 2.5°  | 2153.2 |
| 5°    | 2133.2 |
| 7.5°  | 2089.1 |
| 10°   | 2036.9 |
| 12.5° | 1972.8 |
| 15°   | 1912.6 |
| 17.5° | 1840.5 |
| 20°   | 1768.3 |
| 22.5° | 1688.1 |
| 25°   | 1587.9 |
| 27.5° | 1467.6 |
| 30°   | 1307.2 |
| 32.5° | 1126.7 |
| 35°   | 938.3  |
| 37.5° | 777.9  |
| 40°   | 641.6  |
| 42.5° | 533.3  |
| 45°   | 449.1  |
| 47.5° | 380.9  |
| 50°   | 332.8  |
| 52.5° | 292.7  |
| 55°   | 260.6  |
| 57.5° | 232.6  |
| 60°   | 208.5  |
| 62.5° | 180.4  |
| 65°   | 160.4  |
| 67.5° | 136.3  |
| 70°   | 116.3  |
| 72.5° | 96.2   |
| 75°   | 80.2   |
| 77.5° | 64.2   |
| 80°   | 48.1   |
| 82.5° | 36.1   |
| 85°   | 20.0   |
| 87.5° | 8.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)