

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: P202776

Luminaire Tested: **LD6B60D010TE EU6B60708050 6LBWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P202776  
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: LD6B60D010TE EU6B60708050 6LBWH1  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5468.4 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

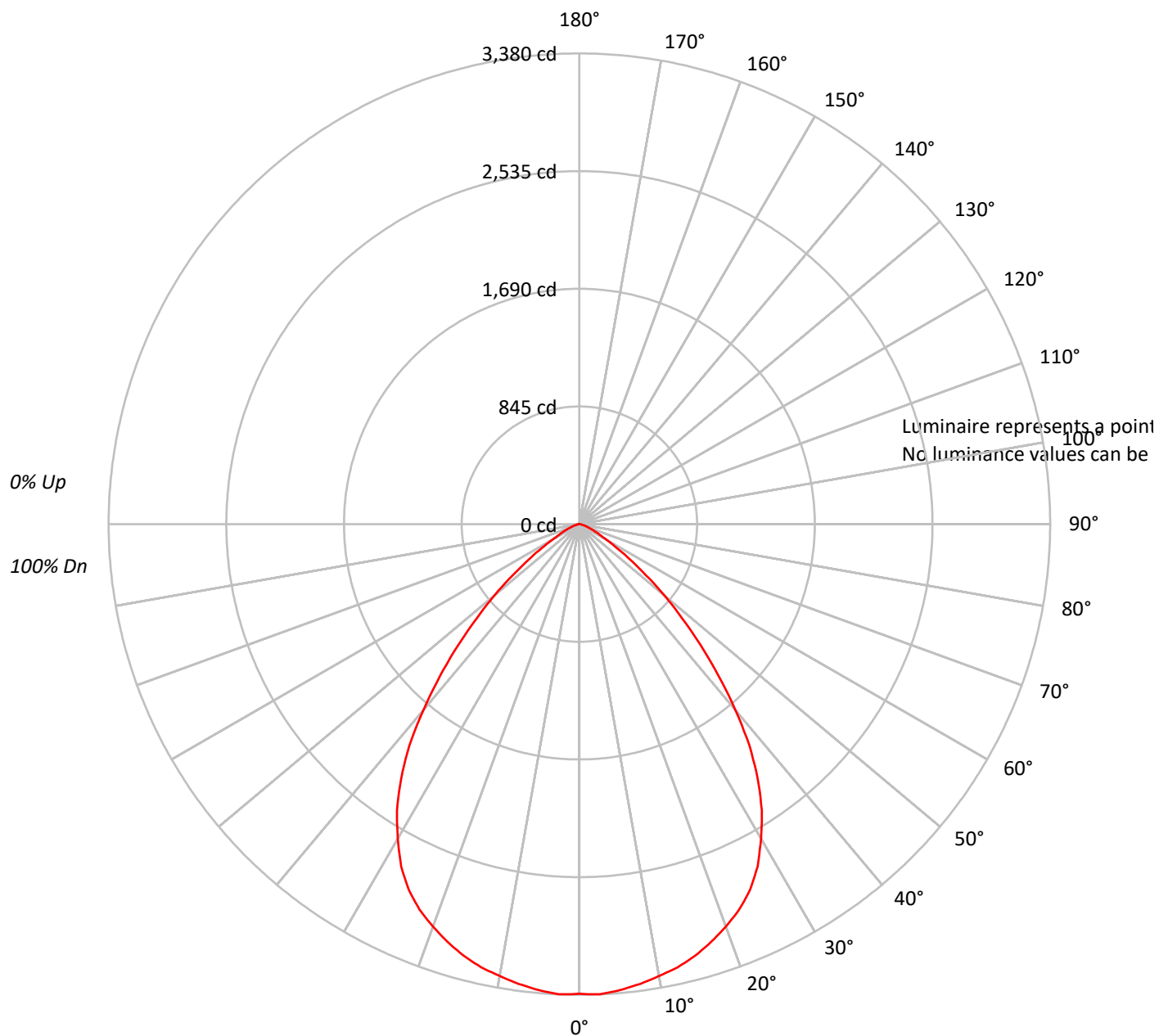
Input Watts (W): 62.48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 103 | 100 | 98  |  | 99  | 97  | 95  |  | 95  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  |  | 91  | 88  | 85  |  | 88  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 78  | 86  | 81  | 77  |  | 83  | 79  | 76  |  | 81  |
| 4   | 92  | 82  | 75  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  |  | 77  | 72  | 68  |  | 75  |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 66  | 62  |  | 71  | 65  | 61  |  | 69  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 61  | 56  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 62  | 55  | 51  |  | 60  | 55  | 51  |  | 59  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  |  | 56  | 50  | 46  |  | 55  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  |  | 52  | 47  | 42  |  | 51  |
| 10  | 62  | 51  | 44  | 40  | 61  | 50  | 44  | 39  | 50  | 43  | 39  |  | 49  | 43  | 39  |  | 48  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 318.6  | 5.8       |
| 10°-20°   | 903.9  | 16.5      |
| 20°-30°   | 1325.3 | 24.2      |
| 30°-40°   | 1379.3 | 25.2      |
| 40°-50°   | 954.3  | 17.5      |
| 50°-60°   | 415.5  | 7.6       |
| 60°-70°   | 127.4  | 2.3       |
| 70°-80°   | 38.2   | 0.7       |
| 80°-90°   | 5.8    | 0.1       |
| 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°    | 2547.8 | 46.6      |
| 0°-40°    | 3927.1 | 71.8      |
| 0°-60°    | 5296.9 | 96.9      |
| 0°-90°    | 5468.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5468.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3373 |      |
| 5°  | 3359 | 319  |
| 15° | 3210 | 904  |
| 25° | 2898 | 1325 |
| 35° | 2232 | 1379 |
| 45° | 1233 | 954  |
| 55° | 446  | 415  |
| 65° | 120  | 127  |
| 75° | 35   | 38   |
| 85° | 7    | 6    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3372.8 |
| 2.5°  | 3379.9 |
| 5°    | 3358.6 |
| 7.5°  | 3330.3 |
| 10°   | 3294.9 |
| 12.5° | 3259.4 |
| 15°   | 3209.8 |
| 17.5° | 3146.1 |
| 20°   | 3075.2 |
| 22.5° | 2997.3 |
| 25°   | 2898.1 |
| 27.5° | 2770.5 |
| 30°   | 2607.6 |
| 32.5° | 2437.5 |
| 35°   | 2232.0 |
| 37.5° | 2005.3 |
| 40°   | 1743.1 |
| 42.5° | 1480.9 |
| 45°   | 1232.9 |
| 47.5° | 999.1  |
| 50°   | 793.6  |
| 52.5° | 602.3  |
| 55°   | 446.4  |
| 57.5° | 318.9  |
| 60°   | 219.7  |
| 62.5° | 163.0  |
| 65°   | 120.5  |
| 67.5° | 92.1   |
| 70°   | 63.8   |
| 72.5° | 49.6   |
| 75°   | 35.4   |
| 77.5° | 21.3   |
| 80°   | 14.2   |
| 82.5° | 7.1    |
| 85°   | 7.1    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)