

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: P203892

Luminaire Tested: **LD6B50D010TE EU6B30508027 6LBNGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203892  
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: LD6B50D010TE EU6B30508027 6LBNGPH1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH GRAPHITE HAZE TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2571.7 lumens  
Efficiency: N/A  
Efficacy: 43.8 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.88  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

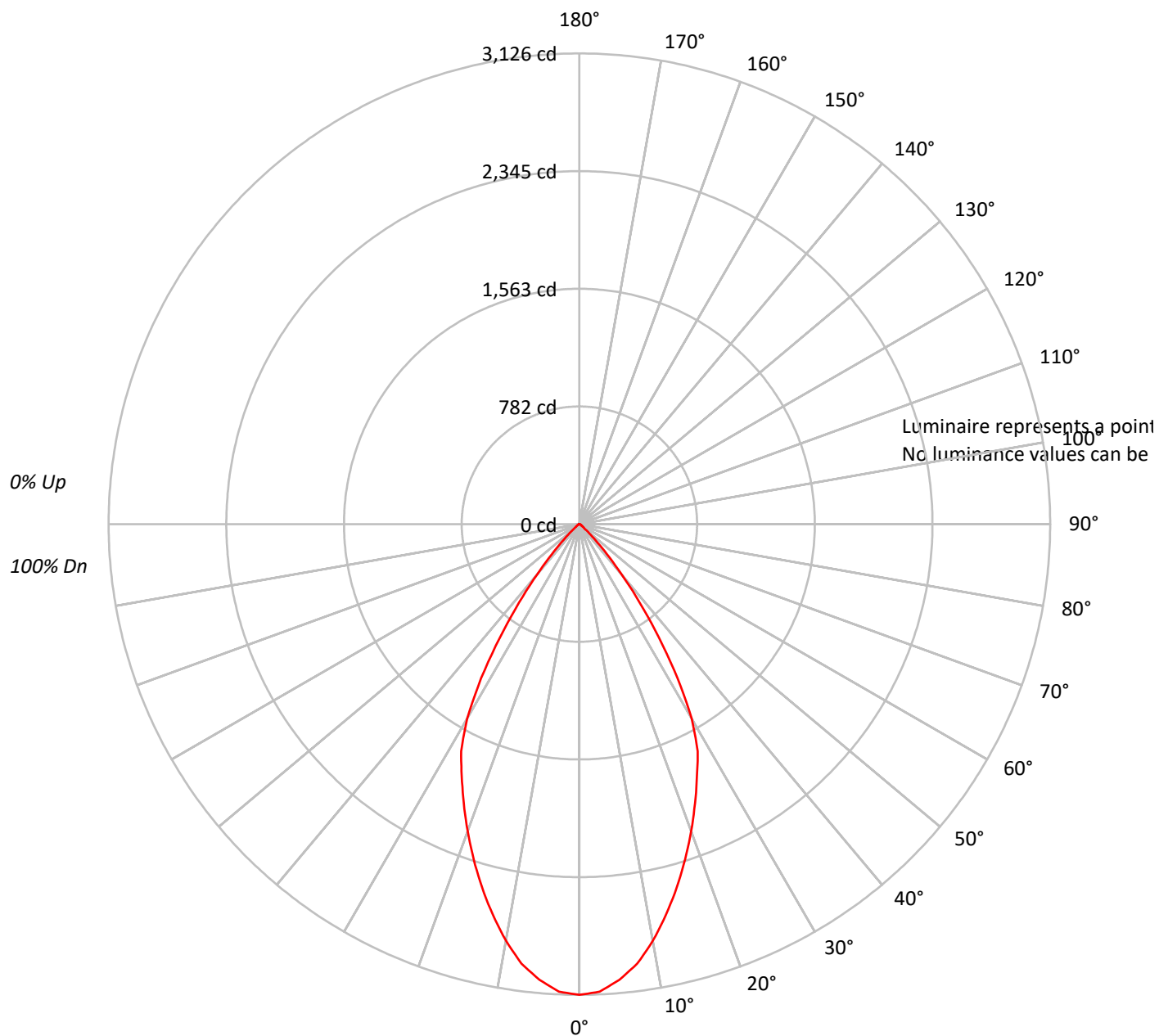
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |     |  |  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  |  | 50  | 30  | 10  |  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 100 |
| 1   | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 |  | 105 | 103 | 101 |  |  | 101 | 100 | 98  |  |  | 94  |
| 2   | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 95  |  | 98  | 95  | 93  |  |  | 95  | 93  | 91  |  |  | 87  |
| 3   | 103 | 96  | 91  | 87  | 101 | 95  | 90  | 87  |  | 92  | 88  | 85  |  |  | 90  | 87  | 84  |  |  | 81  |
| 4   | 97  | 90  | 84  | 80  | 96  | 89  | 84  | 80  |  | 87  | 82  | 79  |  |  | 85  | 81  | 78  |  |  | 76  |
| 5   | 93  | 84  | 78  | 74  | 91  | 83  | 78  | 74  |  | 82  | 77  | 73  |  |  | 80  | 76  | 73  |  |  | 70  |
| 6   | 88  | 79  | 73  | 69  | 86  | 78  | 73  | 69  |  | 77  | 72  | 68  |  |  | 75  | 71  | 68  |  |  | 66  |
| 7   | 84  | 74  | 68  | 64  | 82  | 74  | 68  | 64  |  | 72  | 67  | 64  |  |  | 71  | 67  | 63  |  |  | 62  |
| 8   | 79  | 70  | 64  | 60  | 78  | 69  | 64  | 60  |  | 68  | 63  | 60  |  |  | 67  | 63  | 59  |  |  | 58  |
| 9   | 76  | 66  | 60  | 56  | 75  | 66  | 60  | 56  |  | 65  | 60  | 56  |  |  | 64  | 59  | 56  |  |  | 54  |
| 10  | 72  | 63  | 57  | 53  | 71  | 62  | 57  | 53  |  | 61  | 56  | 53  |  |  | 61  | 56  | 53  |  |  | 51  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 283.0  | 11.0      |
| 10°-20°   | 697.9  | 27.1      |
| 20°-30°   | 845.6  | 32.9      |
| 30°-40°   | 576.3  | 22.4      |
| 40°-50°   | 137.2  | 5.3       |
| 50°-60°   | 21.5   | 0.8       |
| 60°-70°   | 8.0    | 0.3       |
| 70°-80°   | 2.3    | 0.1       |
| 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°    | 1826.4 | 71.0      |
| 0°-40°    | 2402.7 | 93.4      |
| 0°-60°    | 2561.4 | 99.6      |
| 0°-90°    | 2571.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2571.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3126 |      |
| 5°  | 3038 | 283  |
| 15° | 2498 | 698  |
| 25° | 1847 | 846  |
| 35° | 921  | 576  |
| 45° | 147  | 137  |
| 55° | 24   | 21   |
| 65° | 6    | 8    |
| 75° | 0    | 2    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3125.9 |
| 2.5°  | 3108.3 |
| 5°    | 3037.9 |
| 7.5°  | 2944.1 |
| 10°   | 2809.2 |
| 12.5° | 2656.7 |
| 15°   | 2498.3 |
| 17.5° | 2334.1 |
| 20°   | 2169.9 |
| 22.5° | 2005.7 |
| 25°   | 1847.4 |
| 27.5° | 1700.8 |
| 30°   | 1489.6 |
| 32.5° | 1214.0 |
| 35°   | 920.8  |
| 37.5° | 656.8  |
| 40°   | 434.0  |
| 42.5° | 269.8  |
| 45°   | 146.6  |
| 47.5° | 76.2   |
| 50°   | 41.1   |
| 52.5° | 29.3   |
| 55°   | 23.5   |
| 57.5° | 17.6   |
| 60°   | 11.7   |
| 62.5° | 11.7   |
| 65°   | 5.9    |
| 67.5° | 5.9    |
| 70°   | 5.9    |
| 72.5° | 5.9    |
| 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)