

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: P202828

Luminaire Tested: **LD6B20D010 EU6B10209024 6LBWWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P202828  
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: LD6B20D010 EU6B10209024 6LBWWH1  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH WHEAT TRIM  
WATTAGE D010TR-21.86 W DE010-20.46 W D5LT-21.24 W DMX-20.89 W DL2-22.5 W  
DL3-21.8 6 W DLE-22.46 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1346.3 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

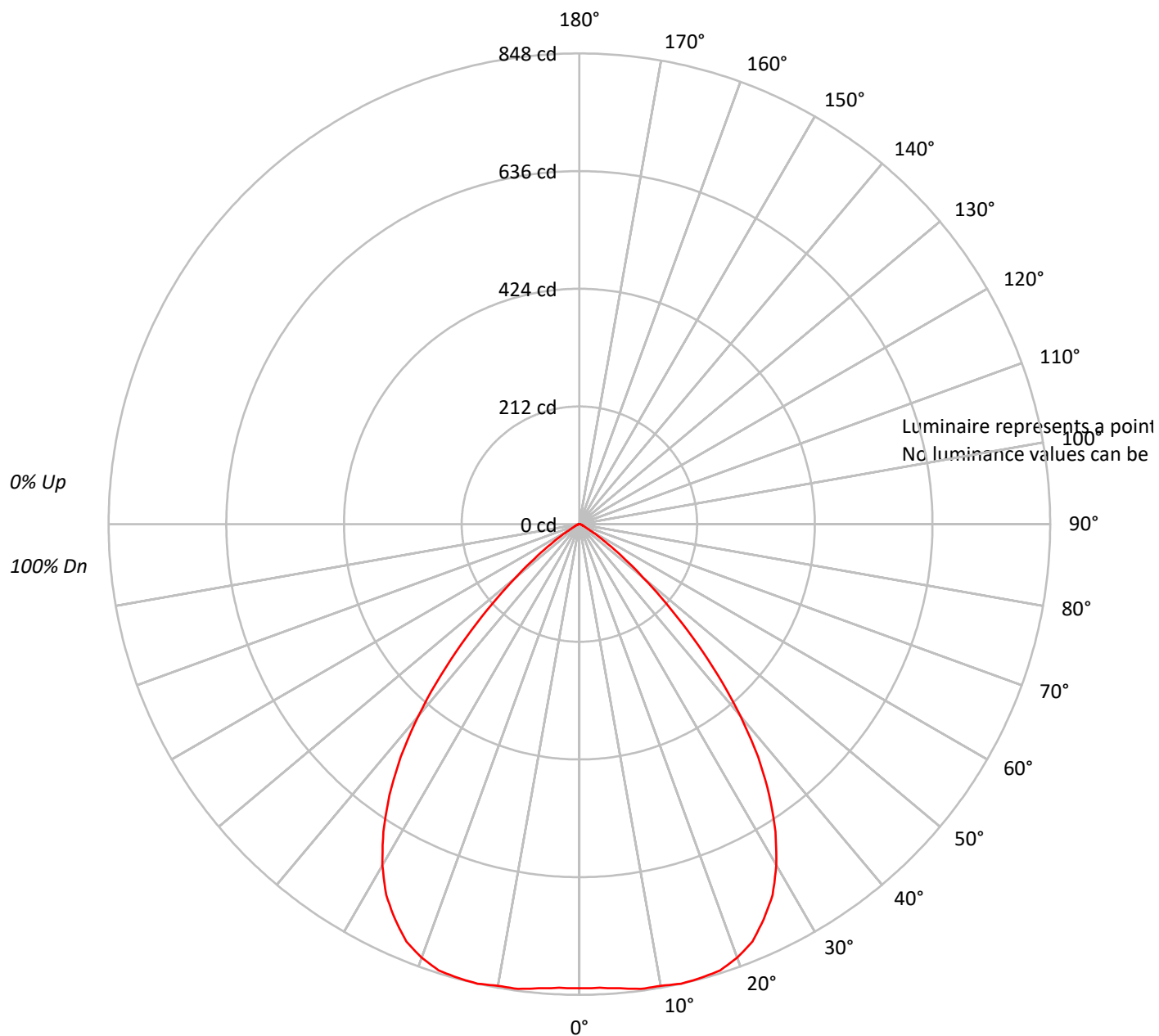
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





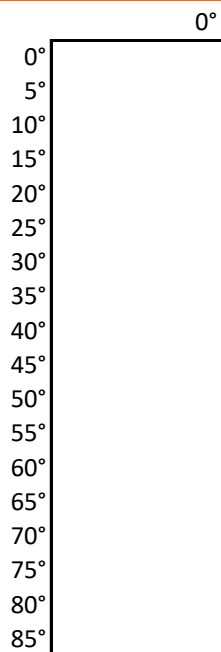
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| 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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  |  | 99  | 98  | 96  |  | 96  |
| 2   | 106 | 100 | 96  | 92  | 104 | 98  | 94  | 91  | 95  | 92  | 89  |  | 92  | 89  | 87  |  | 89  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  |  | 85  | 81  | 78  |  | 83  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 76  | 71  |  | 79  | 74  | 71  |  | 77  |
| 5   | 87  | 77  | 71  | 66  | 85  | 76  | 70  | 65  | 75  | 69  | 65  |  | 73  | 68  | 64  |  | 71  |
| 6   | 82  | 71  | 64  | 59  | 80  | 71  | 64  | 59  | 69  | 63  | 59  |  | 67  | 62  | 58  |  | 66  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 59  | 54  | 64  | 58  | 54  |  | 63  | 57  | 53  |  | 61  |
| 8   | 72  | 61  | 54  | 49  | 71  | 61  | 54  | 49  | 59  | 53  | 49  |  | 58  | 53  | 49  |  | 57  |
| 9   | 68  | 57  | 50  | 45  | 67  | 56  | 50  | 45  | 55  | 49  | 45  |  | 54  | 49  | 45  |  | 53  |
| 10  | 64  | 53  | 46  | 42  | 63  | 53  | 46  | 42  | 52  | 46  | 42  |  | 51  | 45  | 42  |  | 50  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.4   | 6.0       |
| 10°-20°   | 239.0  | 17.8      |
| 20°-30°   | 359.8  | 26.7      |
| 30°-40°   | 367.9  | 27.3      |
| 40°-50°   | 223.4  | 16.6      |
| 50°-60°   | 62.9   | 4.7       |
| 60°-70°   | 9.6    | 0.7       |
| 70°-80°   | 3.1    | 0.2       |
| 80°-90°   | 0.2    | 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°    | 679.2  | 50.4      |
| 0°-40°    | 1047.0 | 77.8      |
| 0°-60°    | 1333.3 | 99.0      |
| 0°-90°    | 1346.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1346.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 836 |      |
| 5°  | 840 | 80   |
| 15° | 846 | 239  |
| 25° | 786 | 360  |
| 35° | 596 | 368  |
| 45° | 287 | 223  |
| 55° | 62  | 63   |
| 65° | 8   | 10   |
| 75° | 3   | 3    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 836.2 |
| 2.5°  | 836.2 |
| 5°    | 839.5 |
| 7.5°  | 844.6 |
| 10°   | 844.6 |
| 12.5° | 848.0 |
| 15°   | 846.3 |
| 17.5° | 842.9 |
| 20°   | 831.1 |
| 22.5° | 814.2 |
| 25°   | 785.5 |
| 27.5° | 753.4 |
| 30°   | 709.5 |
| 32.5° | 657.1 |
| 35°   | 596.3 |
| 37.5° | 528.7 |
| 40°   | 451.0 |
| 42.5° | 369.9 |
| 45°   | 287.2 |
| 47.5° | 212.8 |
| 50°   | 150.3 |
| 52.5° | 101.4 |
| 55°   | 62.5  |
| 57.5° | 37.2  |
| 60°   | 18.6  |
| 62.5° | 11.8  |
| 65°   | 8.4   |
| 67.5° | 6.8   |
| 70°   | 5.1   |
| 72.5° | 3.4   |
| 75°   | 3.4   |
| 77.5° | 1.7   |
| 80°   | 1.7   |
| 82.5° | 0.0   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)