

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: P203110

Luminaire Tested: **LD6B10D010 EU6B10208040 6LBWMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203110  
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: LD6B10D010 EU6B10208040 6LBWMW1  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W  
DL3-11.1 W DLE-11.39 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1040.9 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.15  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

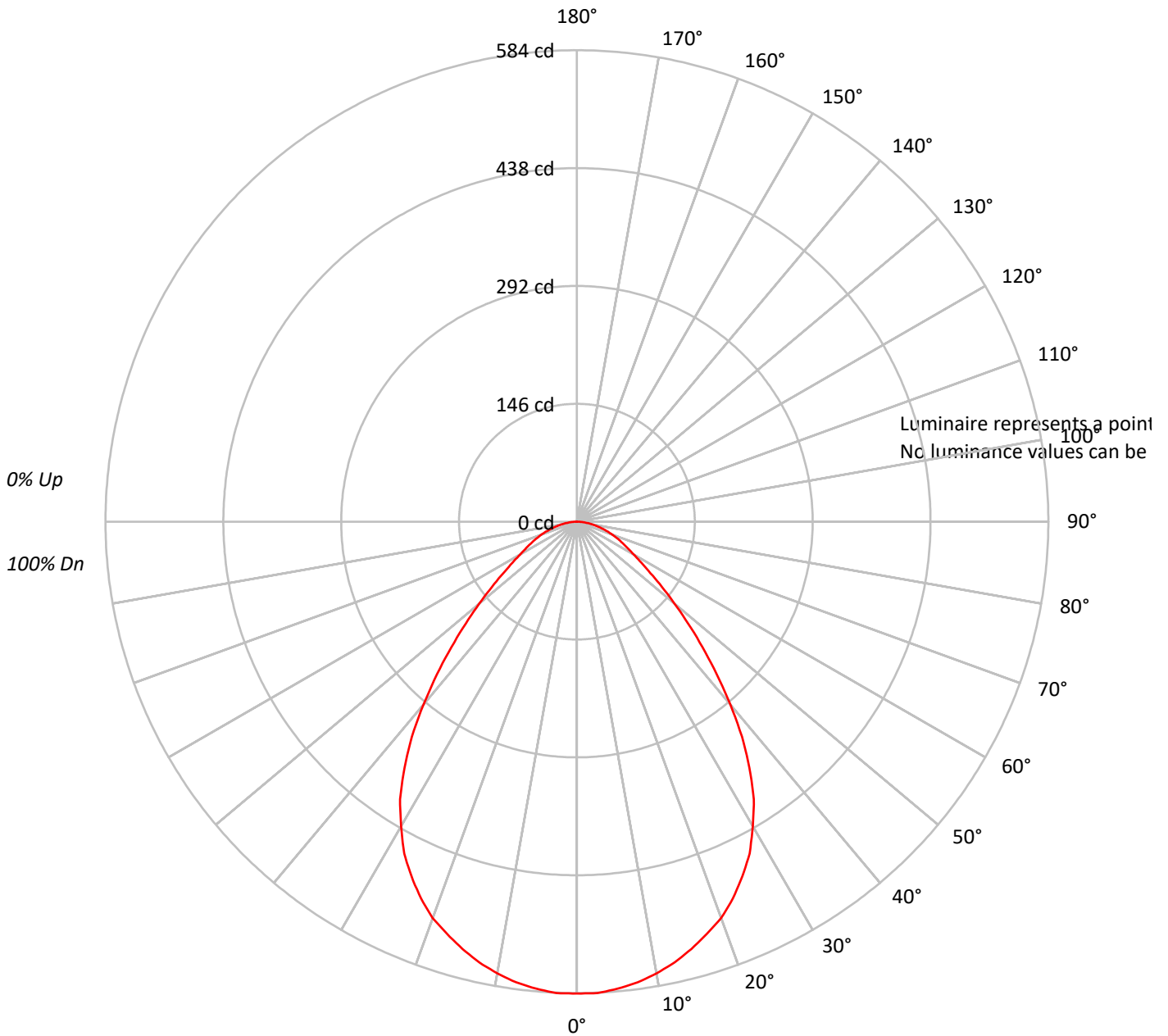
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P203110

CATALOG NUMBER: LD6B10D010 EU6B10208040 6LBWMW1

### Luminous Intensity Polar Plot





TEST NUMBER: P203110

CATALOG NUMBER: LD6B10D010 EU6B10208040 6LBWMW1

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    |   |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |    | 0  |   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 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 | 102 | 102 | 102 | 100 |    |    |   |
| 1   | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |   |
| 3   | 95  | 86  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  |    |    |   |
| 4   | 89  | 78  | 71  | 65  | 86  | 77  | 70  | 65  | 75  | 69  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 60  |    |    |   |
| 5   | 82  | 71  | 64  | 58  | 80  | 70  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 56  | 65  | 60  | 56  | 54  |    |    |   |
| 6   | 77  | 65  | 57  | 52  | 75  | 64  | 57  | 52  | 63  | 56  | 51  | 61  | 55  | 51  | 60  | 54  | 50  | 49  |    |    |   |
| 7   | 72  | 60  | 52  | 47  | 70  | 59  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |   |
| 8   | 67  | 55  | 48  | 42  | 66  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |   |
| 9   | 63  | 51  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 37  |    |    |   |
| 10  | 60  | 48  | 40  | 36  | 58  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 35  | 45  | 39  | 35  | 34  |    |    |   |

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





TEST NUMBER: P203110

CATALOG NUMBER: LD6B10D010 EU6B10208040 6LBWMW1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.0   | 5.3       |
| 10°-20°   | 154.4  | 14.8      |
| 20°-30°   | 222.4  | 21.4      |
| 30°-40°   | 230.9  | 22.2      |
| 40°-50°   | 170.7  | 16.4      |
| 50°-60°   | 102.0  | 9.8       |
| 60°-70°   | 62.0   | 6.0       |
| 70°-80°   | 33.9   | 3.3       |
| 80°-90°   | 9.5    | 0.9       |
| 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°    | 431.8  | 41.5      |
| 0°-40°    | 662.8  | 63.7      |
| 0°-60°    | 935.5  | 89.9      |
| 0°-90°    | 1040.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1040.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 584 |      |
| 5°  | 581 | 55   |
| 15° | 548 | 154  |
| 25° | 485 | 222  |
| 35° | 372 | 231  |
| 45° | 220 | 171  |
| 55° | 111 | 102  |
| 65° | 62  | 62   |
| 75° | 32  | 34   |
| 85° | 8   | 9    |
| 90° | 0   |      |



TEST NUMBER: P203110

CATALOG NUMBER: LD6B10D010 EU6B10208040 6LBWMW1

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 584.5 |
| 2.5°  | 584.5 |
| 5°    | 580.7 |
| 7.5°  | 575.7 |
| 10°   | 568.1 |
| 12.5° | 559.2 |
| 15°   | 547.9 |
| 17.5° | 535.3 |
| 20°   | 522.6 |
| 22.5° | 505.0 |
| 25°   | 484.8 |
| 27.5° | 463.3 |
| 30°   | 435.5 |
| 32.5° | 407.8 |
| 35°   | 372.4 |
| 37.5° | 335.8 |
| 40°   | 295.4 |
| 42.5° | 256.3 |
| 45°   | 219.7 |
| 47.5° | 186.8 |
| 50°   | 157.8 |
| 52.5° | 132.6 |
| 55°   | 111.1 |
| 57.5° | 94.7  |
| 60°   | 80.8  |
| 62.5° | 70.7  |
| 65°   | 61.9  |
| 67.5° | 54.3  |
| 70°   | 46.7  |
| 72.5° | 39.1  |
| 75°   | 31.6  |
| 77.5° | 25.2  |
| 80°   | 18.9  |
| 82.5° | 13.9  |
| 85°   | 7.6   |
| 87.5° | 3.8   |
| 90°   | 0.0   |



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)