

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: P252758

Luminaire Tested: **LD6B10D010 EU6B10209027 6LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-2)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B10D010 EU6B10209027 6LBBA1MW  
Description: PORTFOLIO 6 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

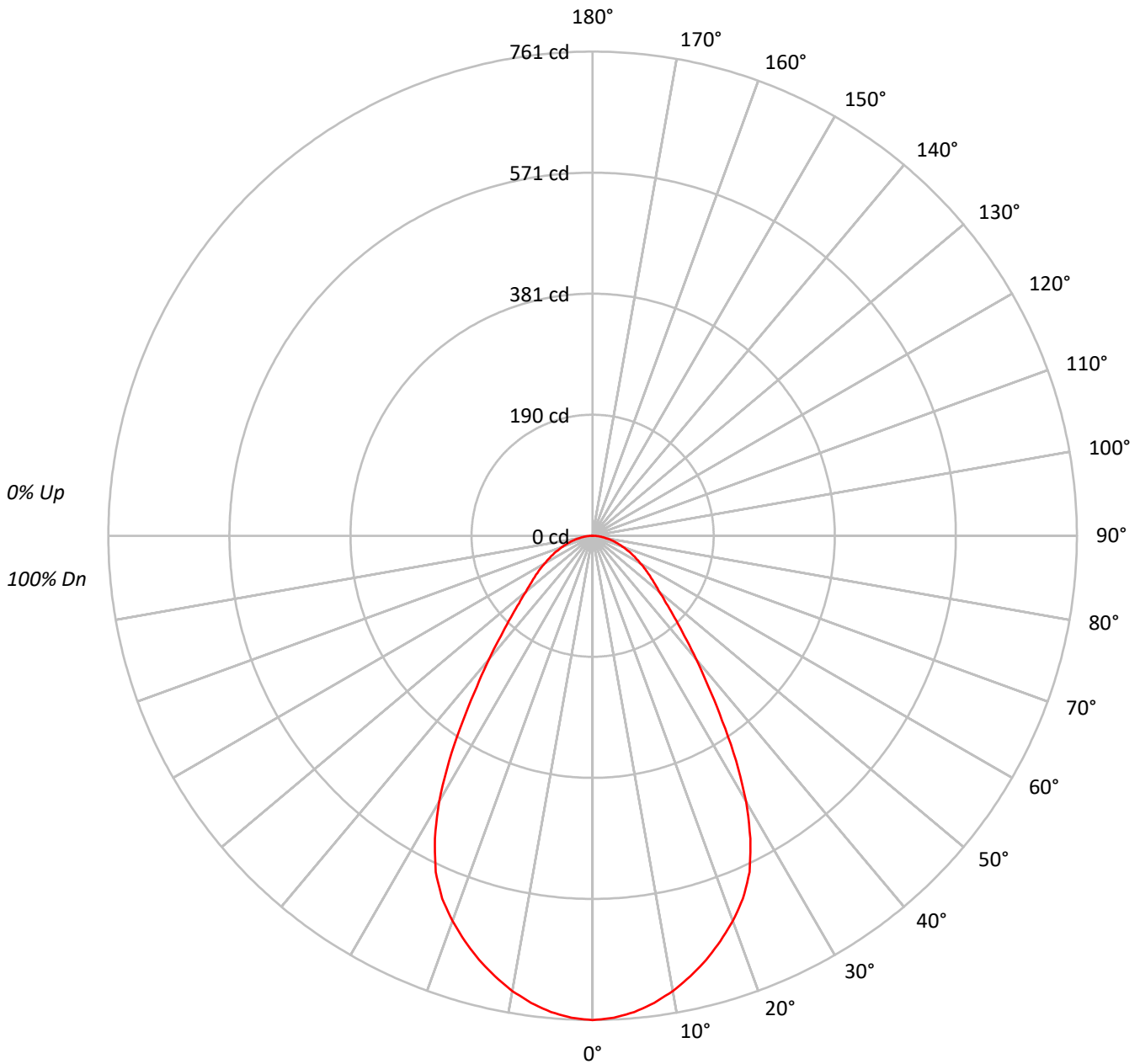
Lumens per Lamp: N/A  
Luminaire Lumens: 1110.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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



TEST NUMBER: P252758

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBBA1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P252758

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBBA1MW

**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 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |    |    |   |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    |   |
| 3   | 96  | 87  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |   |
| 4   | 90  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |   |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 60  | 70  | 64  | 59  | 68  | 63  | 58  | 66  | 62  | 58  | 56  |    |    |   |
| 6   | 78  | 67  | 60  | 54  | 77  | 66  | 59  | 54  | 65  | 58  | 54  | 63  | 57  | 53  | 62  | 57  | 53  | 51  |    |    |   |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  | 59  | 53  | 49  | 57  | 52  | 48  | 47  |    |    |   |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  | 55  | 49  | 45  | 53  | 48  | 44  | 43  |    |    |   |
| 9   | 65  | 54  | 46  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |   |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 49668 |
| 5°  | 49216 |
| 10° | 48128 |
| 15° | 46604 |
| 20° | 44718 |
| 25° | 41982 |
| 30° | 36326 |
| 35° | 28282 |
| 40° | 21496 |
| 45° | 16755 |
| 50° | 13895 |
| 55° | 12478 |
| 60° | 11352 |
| 65° | 10482 |
| 70° | 9633  |
| 75° | 8923  |
| 80° | 8078  |
| 85° | 7411  |



TEST NUMBER: P252758

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBBA1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 70.9   | 6.4       |
| 10°-20°   | 193.9  | 17.5      |
| 20°-30°   | 264.0  | 23.8      |
| 30°-40°   | 223.4  | 20.1      |
| 40°-50°   | 143.3  | 12.9      |
| 50°-60°   | 98.6   | 8.9       |
| 60°-70°   | 67.4   | 6.1       |
| 70°-80°   | 37.5   | 3.4       |
| 80°-90°   | 11.0   | 1.0       |
| 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°    | 528.8  | 47.6      |
| 0°-40°    | 752.2  | 67.8      |
| 0°-60°    | 994.1  | 89.6      |
| 0°-90°    | 1110.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1110.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 761 |      |
| 5°  | 752 | 71   |
| 15° | 690 | 194  |
| 25° | 583 | 264  |
| 35° | 355 | 223  |
| 45° | 182 | 143  |
| 55° | 110 | 99   |
| 65° | 68  | 67   |
| 75° | 35  | 37   |
| 85° | 10  | 11   |
| 90° | 0   |      |



TEST NUMBER: P252758

CATALOG NUMBER: LD6B10D010 EU6B10209027 6LBBA1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 761.3 |
| 2.5°  | 758.4 |
| 5°    | 751.5 |
| 7.5°  | 740.4 |
| 10°   | 726.5 |
| 12.5° | 709.1 |
| 15°   | 690.0 |
| 17.5° | 667.9 |
| 20°   | 644.1 |
| 22.5° | 617.4 |
| 25°   | 583.2 |
| 27.5° | 536.8 |
| 30°   | 482.2 |
| 32.5° | 419.5 |
| 35°   | 355.1 |
| 37.5° | 298.8 |
| 40°   | 252.4 |
| 42.5° | 213.5 |
| 45°   | 181.6 |
| 47.5° | 156.7 |
| 50°   | 136.9 |
| 52.5° | 121.9 |
| 55°   | 109.7 |
| 57.5° | 98.1  |
| 60°   | 87.0  |
| 62.5° | 77.2  |
| 65°   | 67.9  |
| 67.5° | 58.6  |
| 70°   | 50.5  |
| 72.5° | 42.4  |
| 75°   | 35.4  |
| 77.5° | 28.4  |
| 80°   | 21.5  |
| 82.5° | 15.7  |
| 85°   | 9.9   |
| 87.5° | 4.1   |
| 90°   | 0.0   |



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)