

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: P252798

Luminaire Tested: **LD6B30D010 EU6B30509030 6LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252798  
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: LD6B30D010 EU6B30509030 6LBBA1MW  
Description: PORTFOLIO 6 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3211.0 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

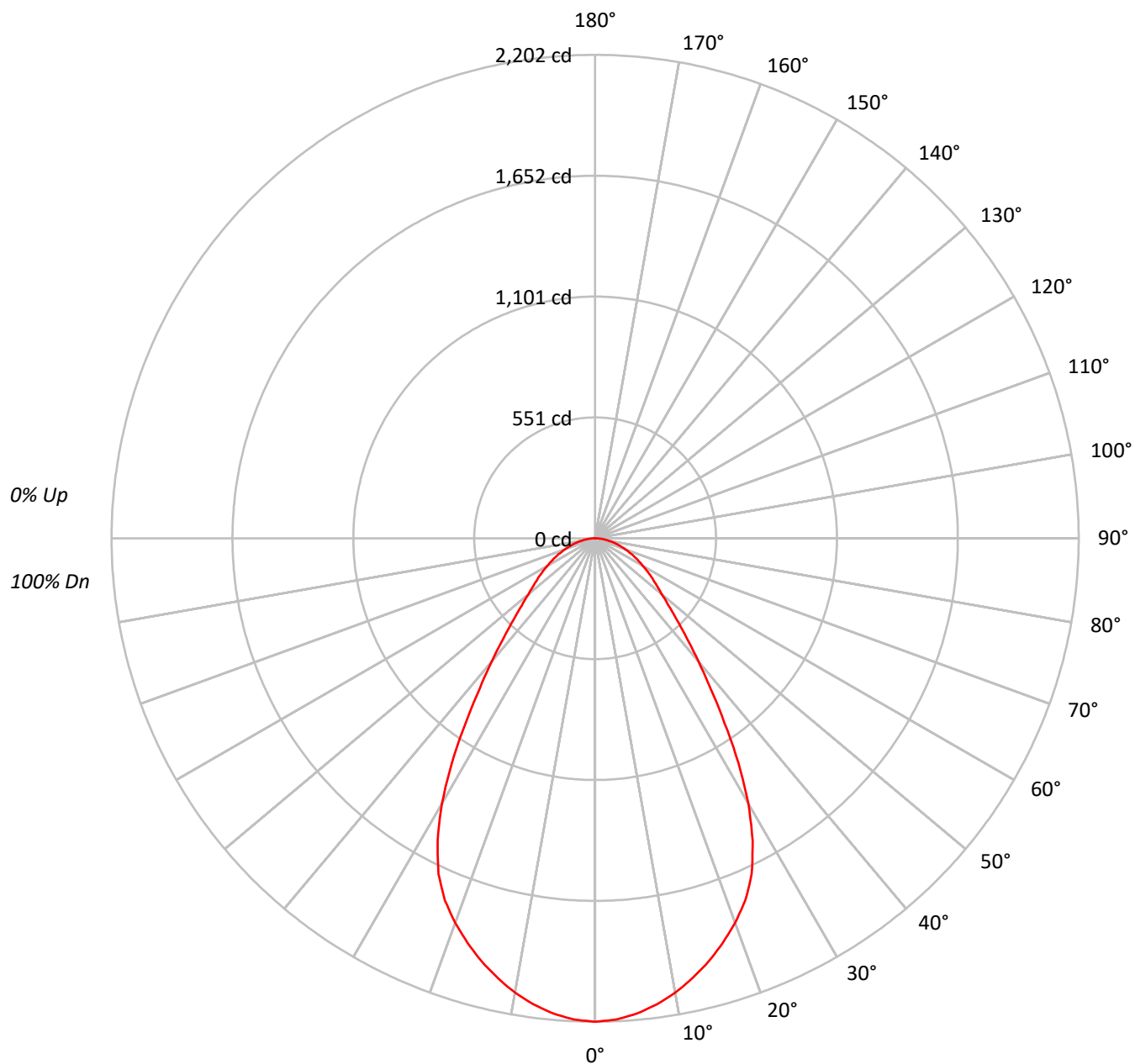
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 30  | 10  | 50  | 30 |
| 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°  | 143686 |
| 5°  | 142362 |
| 10° | 139225 |
| 15° | 134807 |
| 20° | 129364 |
| 25° | 121439 |
| 30° | 105083 |
| 35° | 81818  |
| 40° | 62188  |
| 45° | 48476  |
| 50° | 40213  |
| 55° | 36091  |
| 60° | 32855  |
| 65° | 30319  |
| 70° | 27850  |
| 75° | 25812  |
| 80° | 23331  |
| 85° | 21334  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 205.2  | 6.4       |
| 10°-20°   | 560.8  | 17.5      |
| 20°-30°   | 763.8  | 23.8      |
| 30°-40°   | 646.3  | 20.1      |
| 40°-50°   | 414.6  | 12.9      |
| 50°-60°   | 285.3  | 8.9       |
| 60°-70°   | 194.9  | 6.1       |
| 70°-80°   | 108.4  | 3.4       |
| 80°-90°   | 31.7   | 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°    | 1529.7 | 47.6      |
| 0°-40°    | 2176.0 | 67.8      |
| 0°-60°    | 2875.9 | 89.6      |
| 0°-90°    | 3211.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3211.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2202 |      |
| 5°  | 2174 | 205  |
| 15° | 1996 | 561  |
| 25° | 1687 | 764  |
| 35° | 1027 | 646  |
| 45° | 525  | 415  |
| 55° | 317  | 285  |
| 65° | 196  | 195  |
| 75° | 102  | 108  |
| 85° | 28   | 32   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2202.4 |
| 2.5°  | 2194.0 |
| 5°    | 2173.8 |
| 7.5°  | 2141.9 |
| 10°   | 2101.6 |
| 12.5° | 2051.3 |
| 15°   | 1995.9 |
| 17.5° | 1932.1 |
| 20°   | 1863.3 |
| 22.5° | 1786.1 |
| 25°   | 1687.0 |
| 27.5° | 1552.7 |
| 30°   | 1394.9 |
| 32.5° | 1213.7 |
| 35°   | 1027.3 |
| 37.5° | 864.5  |
| 40°   | 730.2  |
| 42.5° | 617.7  |
| 45°   | 525.4  |
| 47.5° | 453.2  |
| 50°   | 396.2  |
| 52.5° | 352.5  |
| 55°   | 317.3  |
| 57.5° | 283.7  |
| 60°   | 251.8  |
| 62.5° | 223.3  |
| 65°   | 196.4  |
| 67.5° | 169.5  |
| 70°   | 146.0  |
| 72.5° | 122.5  |
| 75°   | 102.4  |
| 77.5° | 82.3   |
| 80°   | 62.1   |
| 82.5° | 45.3   |
| 85°   | 28.5   |
| 87.5° | 11.8   |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)