

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: P35122

Luminaire Tested: **LD6B10D010 EU6B10209027 6LBWGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P35122  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B10D010 EU6B10209027 6LBWGPH1  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH GRAPHITE HAZE 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: 581.2 lumens  
Efficiency: N/A  
Efficacy: 59.9 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.11  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

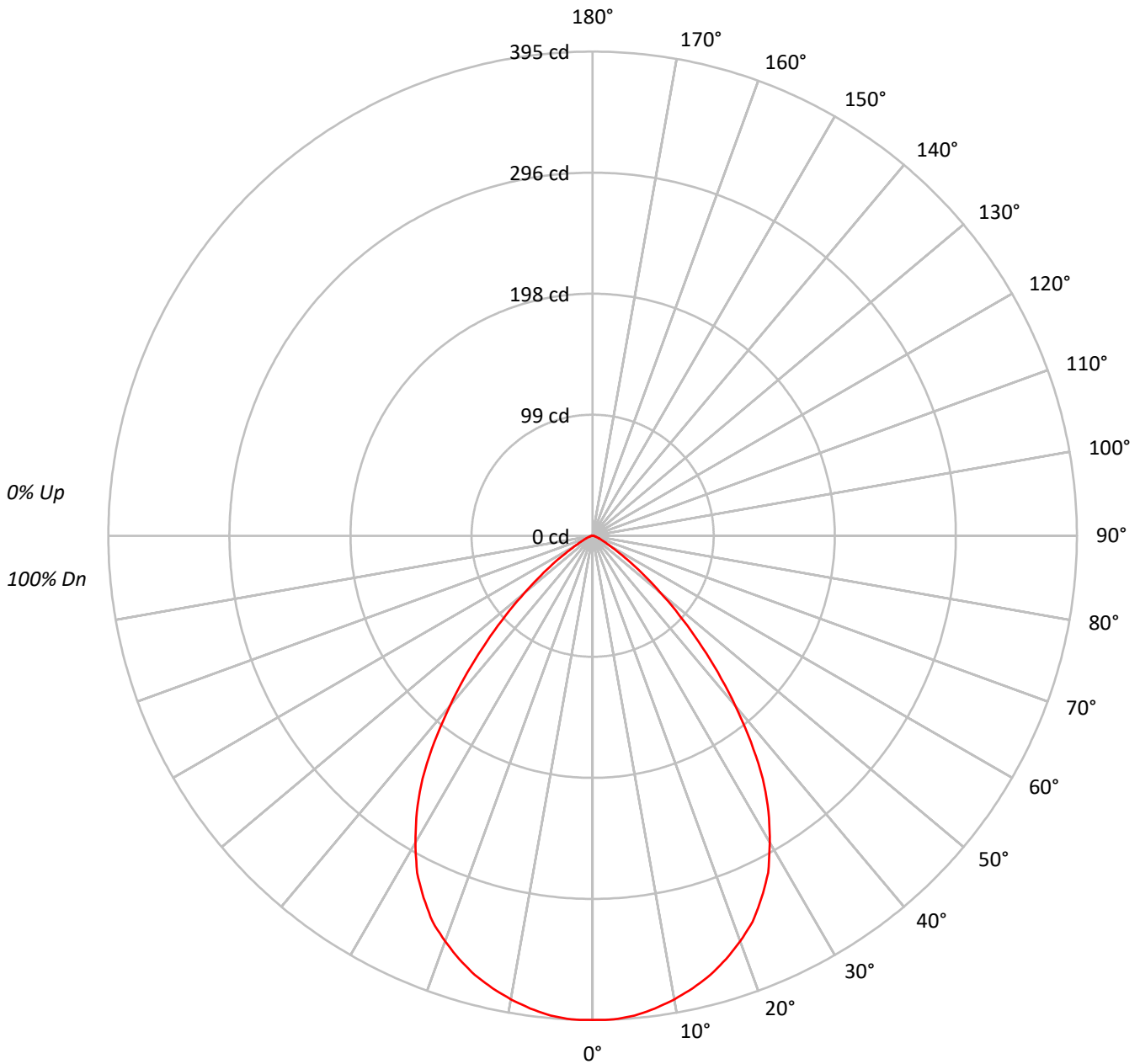
Input Watts (W): 9.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |    | 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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |   |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |   |
| 3   | 99  | 91  | 85  | 81  | 97  | 90  | 84  | 80  | 87  | 82  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |   |
| 4   | 93  | 84  | 77  | 72  | 91  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 72  | 69  | 67  |    |    |   |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  | 74  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 61  |    |    |   |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 59  | 68  | 62  | 58  | 67  | 62  | 58  | 65  | 61  | 57  | 56  |    |    |   |
| 7   | 76  | 65  | 58  | 53  | 75  | 65  | 58  | 53  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 52  | 51  |    |    |   |
| 8   | 72  | 61  | 54  | 49  | 70  | 60  | 53  | 49  | 59  | 53  | 49  | 58  | 52  | 48  | 57  | 52  | 48  | 47  |    |    |   |
| 9   | 68  | 57  | 50  | 45  | 66  | 56  | 49  | 45  | 55  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 44  | 43  |    |    |   |
| 10  | 64  | 53  | 46  | 42  | 63  | 52  | 46  | 42  | 51  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 40  |    |    |   |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 25770 |
| 5°  | 25738 |
| 10° | 25439 |
| 15° | 25058 |
| 20° | 24439 |
| 25° | 23467 |
| 30° | 21771 |
| 35° | 19274 |
| 40° | 15415 |
| 45° | 11256 |
| 50° | 7308  |
| 55° | 4209  |
| 60° | 2088  |
| 65° | 1235  |
| 70° | 954   |
| 75° | 504   |
| 80° | 376   |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.2   | 6.4       |
| 10°-20°   | 104.4  | 18.0      |
| 20°-30°   | 149.3  | 25.7      |
| 30°-40°   | 148.8  | 25.6      |
| 40°-50°   | 94.8   | 16.3      |
| 50°-60°   | 34.9   | 6.0       |
| 60°-70°   | 8.7    | 1.5       |
| 70°-80°   | 2.6    | 0.5       |
| 80°-90°   | 0.4    | 0.1       |
| 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°    | 290.9  | 50.0      |
| 0°-40°    | 439.7  | 75.7      |
| 0°-60°    | 569.4  | 98.0      |
| 0°-90°    | 581.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 581.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 395 |      |
| 5°  | 393 | 37   |
| 15° | 371 | 104  |
| 25° | 326 | 149  |
| 35° | 242 | 149  |
| 45° | 122 | 95   |
| 55° | 37  | 35   |
| 65° | 8   | 9    |
| 75° | 2   | 3    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°  |
|-------|-----|
| 0°    | 395 |
| 2.5°  | 395 |
| 5°    | 393 |
| 7.5°  | 389 |
| 10°   | 384 |
| 12.5° | 378 |
| 15°   | 371 |
| 17.5° | 362 |
| 20°   | 352 |
| 22.5° | 341 |
| 25°   | 326 |
| 27.5° | 310 |
| 30°   | 289 |
| 32.5° | 267 |
| 35°   | 242 |
| 37.5° | 212 |
| 40°   | 181 |
| 42.5° | 151 |
| 45°   | 122 |
| 47.5° | 96  |
| 50°   | 72  |
| 52.5° | 53  |
| 55°   | 37  |
| 57.5° | 24  |
| 60°   | 16  |
| 62.5° | 11  |
| 65°   | 8   |
| 67.5° | 6   |
| 70°   | 5   |
| 72.5° | 3   |
| 75°   | 2   |
| 77.5° | 2   |
| 80°   | 1   |
| 82.5° | 1   |
| 85°   | 0   |
| 87.5° | 0   |
| 90°   | 0   |



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— 0°-180°







(END OF REPORT)