

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: P202847

Luminaire Tested: **LD6B30D010 EU6B30509727 6LBWWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P202847  
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: LD6B30D010 EU6B30509727 6LBWWH1  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH WHEAT TRIM  
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W  
DL3-29.67 W DLE-29.73 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1929.4 lumens  
Efficiency: N/A  
Efficacy: 68.9 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

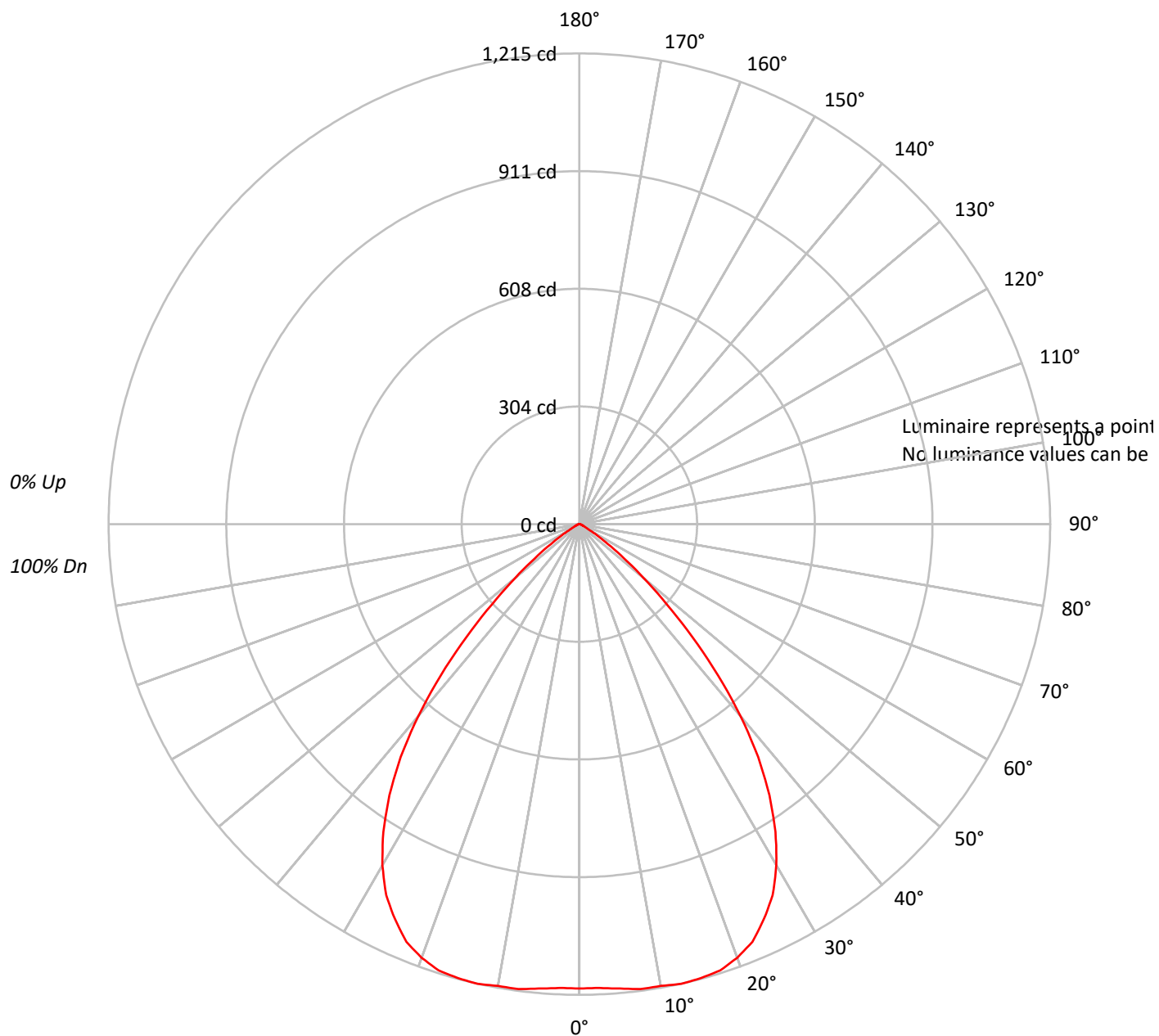
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot

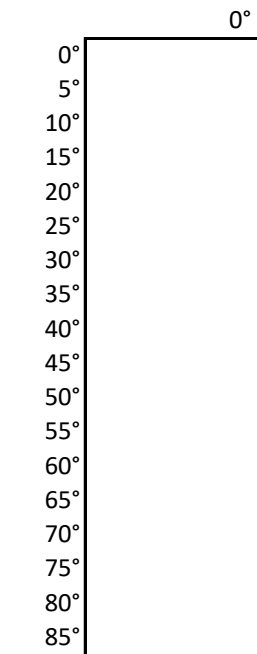


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

|     |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |     |
|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF  | 20  |     |     |     |  | 20  |     |     |     |  | 20  |     |     |  |     | 20  |     |  |     |     | 20  |     |
| RC  | 80  |     |     |     |  | 70  |     |     |     |  | 50  |     |     |  |     | 30  |     |  |     |     | 0   |     |
| RW  | 70  | 50  | 30  | 10  |  | 70  | 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   | 113 | 109 | 107 | 104 |  | 110 | 107 | 105 | 102 |  | 103 | 101 | 99  |  | 99  | 98  | 96  |  | 96  | 95  | 93  | 92  |
| 2   | 106 | 100 | 96  | 92  |  | 104 | 98  | 94  | 91  |  | 95  | 92  | 89  |  | 92  | 89  | 87  |  | 89  | 87  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  |  | 97  | 90  | 85  | 81  |  | 88  | 83  | 79  |  | 85  | 81  | 78  |  | 83  | 80  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  |  | 91  | 83  | 77  | 72  |  | 81  | 76  | 71  |  | 79  | 74  | 71  |  | 77  | 73  | 70  | 68  |
| 5   | 87  | 77  | 71  | 66  |  | 85  | 76  | 70  | 65  |  | 75  | 69  | 65  |  | 73  | 68  | 64  |  | 71  | 67  | 63  | 62  |
| 6   | 82  | 71  | 64  | 59  |  | 80  | 71  | 64  | 59  |  | 69  | 63  | 59  |  | 67  | 62  | 58  |  | 66  | 61  | 58  | 56  |
| 7   | 77  | 66  | 59  | 54  |  | 75  | 65  | 59  | 54  |  | 64  | 58  | 54  |  | 63  | 57  | 53  |  | 61  | 57  | 53  | 51  |
| 8   | 72  | 61  | 54  | 49  |  | 71  | 61  | 54  | 49  |  | 59  | 53  | 49  |  | 58  | 53  | 49  |  | 57  | 52  | 49  | 47  |
| 9   | 68  | 57  | 50  | 45  |  | 67  | 56  | 50  | 45  |  | 55  | 49  | 45  |  | 54  | 49  | 45  |  | 53  | 48  | 45  | 43  |
| 10  | 64  | 53  | 46  | 42  |  | 63  | 53  | 46  | 42  |  | 52  | 46  | 42  |  | 51  | 45  | 42  |  | 50  | 45  | 41  | 40  |

AVERAGE LUMINANCE (cd/sqm):





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 115.2  | 6.0       |
| 10°-20°   | 342.5  | 17.8      |
| 20°-30°   | 515.6  | 26.7      |
| 30°-40°   | 527.2  | 27.3      |
| 40°-50°   | 320.2  | 16.6      |
| 50°-60°   | 90.2   | 4.7       |
| 60°-70°   | 13.7   | 0.7       |
| 70°-80°   | 4.4    | 0.2       |
| 80°-90°   | 0.3    | 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°    | 973.4  | 50.4      |
| 0°-40°    | 1500.6 | 77.8      |
| 0°-60°    | 1911.0 | 99.0      |
| 0°-90°    | 1929.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1929.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1198 |      |
| 5°  | 1203 | 115  |
| 15° | 1213 | 343  |
| 25° | 1126 | 516  |
| 35° | 855  | 527  |
| 45° | 412  | 320  |
| 55° | 90   | 90   |
| 65° | 12   | 14   |
| 75° | 5    | 4    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1198.4 |
| 2.5°  | 1198.4 |
| 5°    | 1203.2 |
| 7.5°  | 1210.5 |
| 10°   | 1210.5 |
| 12.5° | 1215.3 |
| 15°   | 1212.9 |
| 17.5° | 1208.1 |
| 20°   | 1191.1 |
| 22.5° | 1166.9 |
| 25°   | 1125.8 |
| 27.5° | 1079.8 |
| 30°   | 1016.8 |
| 32.5° | 941.8  |
| 35°   | 854.6  |
| 37.5° | 757.8  |
| 40°   | 646.4  |
| 42.5° | 530.2  |
| 45°   | 411.6  |
| 47.5° | 305.0  |
| 50°   | 215.5  |
| 52.5° | 145.3  |
| 55°   | 89.6   |
| 57.5° | 53.3   |
| 60°   | 26.6   |
| 62.5° | 16.9   |
| 65°   | 12.1   |
| 67.5° | 9.7    |
| 70°   | 7.3    |
| 72.5° | 4.8    |
| 75°   | 4.8    |
| 77.5° | 2.4    |
| 80°   | 2.4    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)