

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: P204385

Luminaire Tested: **LD6B30D010 EU6B30508050 6LBSGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204385  
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 EU6B30508050 6LBSGPH1  
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 2923.1 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

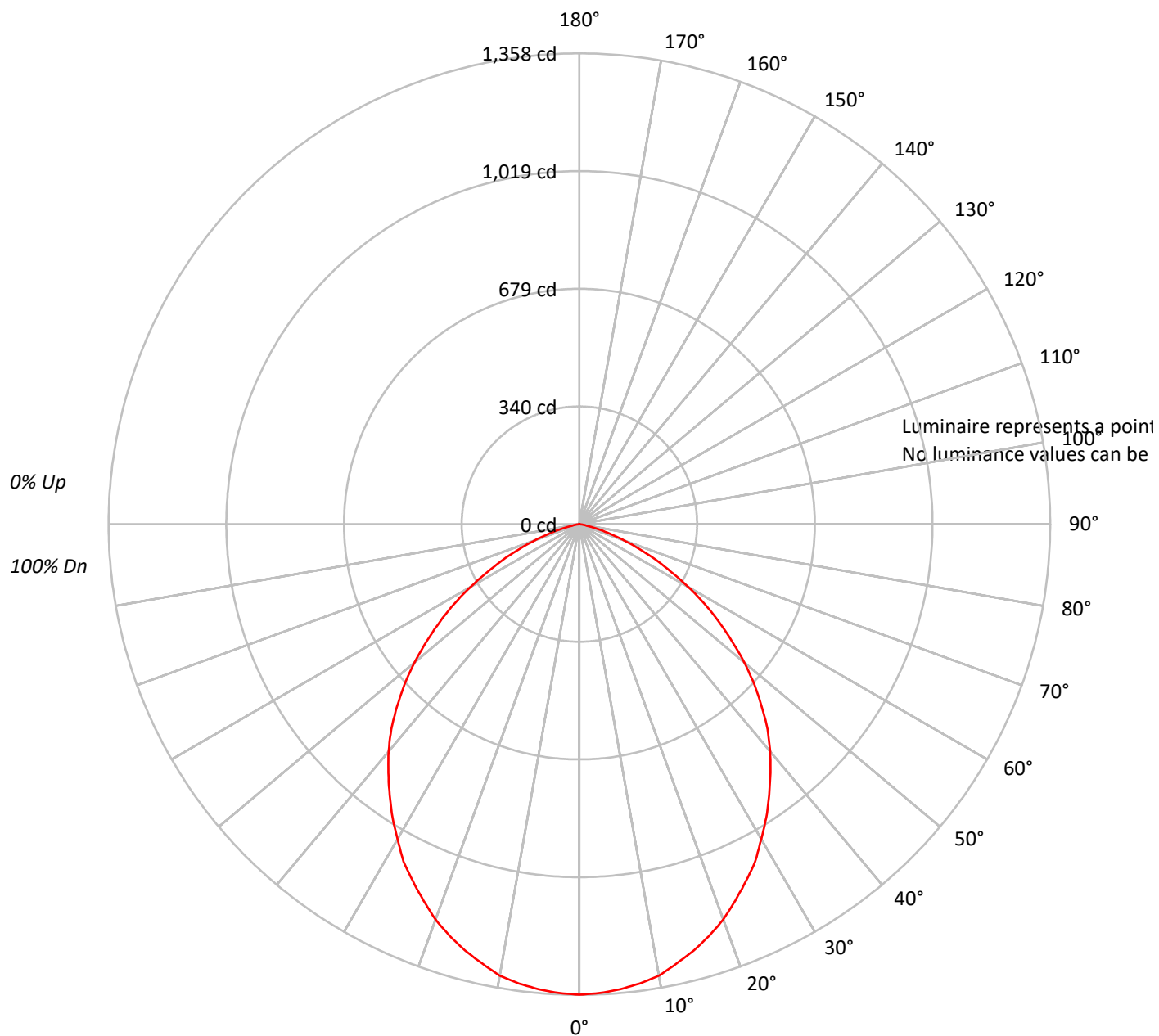
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 102 | 99  |  | 101 | 98  | 96  |  | 97  | 95  | 93  |  | 93  | 91  | 90  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  |  | 90  | 85  | 82  |  | 87  | 83  | 80  |  | 84  | 81  | 78  |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  |  | 80  | 75  | 70  |  | 78  | 73  | 69  |  | 75  | 71  | 68  |
| 4   | 87  | 76  | 68  | 62  | 85  | 75  | 67  | 62  |  | 72  | 66  | 61  |  | 70  | 65  | 60  |  | 68  | 63  | 59  |
| 5   | 80  | 68  | 60  | 54  | 78  | 67  | 60  | 54  |  | 65  | 59  | 53  |  | 63  | 58  | 53  |  | 62  | 56  | 52  |
| 6   | 74  | 62  | 54  | 48  | 73  | 61  | 53  | 48  |  | 59  | 52  | 47  |  | 58  | 52  | 47  |  | 56  | 51  | 47  |
| 7   | 69  | 57  | 48  | 43  | 68  | 56  | 48  | 43  |  | 54  | 47  | 42  |  | 53  | 47  | 42  |  | 52  | 46  | 42  |
| 8   | 65  | 52  | 44  | 38  | 63  | 51  | 44  | 38  |  | 50  | 43  | 38  |  | 49  | 42  | 38  |  | 48  | 42  | 38  |
| 9   | 60  | 48  | 40  | 35  | 59  | 47  | 40  | 35  |  | 46  | 39  | 35  |  | 45  | 39  | 34  |  | 44  | 38  | 34  |
| 10  | 57  | 44  | 37  | 32  | 56  | 44  | 36  | 32  |  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  | 35  | 31  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.8  | 4.4       |
| 10°-20°   | 358.8  | 12.3      |
| 20°-30°   | 523.3  | 17.9      |
| 30°-40°   | 596.8  | 20.4      |
| 40°-50°   | 572.5  | 19.6      |
| 50°-60°   | 438.4  | 15.0      |
| 60°-70°   | 240.6  | 8.2       |
| 70°-80°   | 64.0   | 2.2       |
| 80°-90°   | 0.9    | 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°    | 1009.9 | 34.6      |
| 0°-40°    | 1606.7 | 55.0      |
| 0°-60°    | 2617.6 | 89.5      |
| 0°-90°    | 2923.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2923.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1358 |      |
| 5°  | 1347 | 128  |
| 15° | 1273 | 359  |
| 25° | 1137 | 523  |
| 35° | 954  | 597  |
| 45° | 744  | 572  |
| 55° | 491  | 438  |
| 65° | 242  | 241  |
| 75° | 56   | 64   |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1357.6 |
| 2.5°  | 1354.1 |
| 5°    | 1347.1 |
| 7.5°  | 1336.6 |
| 10°   | 1322.6 |
| 12.5° | 1298.0 |
| 15°   | 1273.4 |
| 17.5° | 1245.4 |
| 20°   | 1213.8 |
| 22.5° | 1175.2 |
| 25°   | 1136.6 |
| 27.5° | 1098.0 |
| 30°   | 1048.9 |
| 32.5° | 1003.3 |
| 35°   | 954.2  |
| 37.5° | 905.1  |
| 40°   | 856.0  |
| 42.5° | 803.4  |
| 45°   | 743.7  |
| 47.5° | 684.1  |
| 50°   | 620.9  |
| 52.5° | 554.3  |
| 55°   | 491.1  |
| 57.5° | 428.0  |
| 60°   | 361.3  |
| 62.5° | 298.2  |
| 65°   | 242.1  |
| 67.5° | 185.9  |
| 70°   | 136.8  |
| 72.5° | 91.2   |
| 75°   | 56.1   |
| 77.5° | 24.6   |
| 80°   | 7.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)