

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: P202935

Luminaire Tested: **LD6B20D010 EU6B10209040 6LBWGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P202935  
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: LD6B20D010 EU6B10209040 6LBWGPH1  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTIONWITH GRAPHITE HAZE TRIM  
WATTAGE D010TR-21.86 W DE010-20.46 W D5LT-21.24 W DMX-20.89 W DL2-22.5 W  
DL3-21.8 6 W DLE-22.46 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1177.0 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.11  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

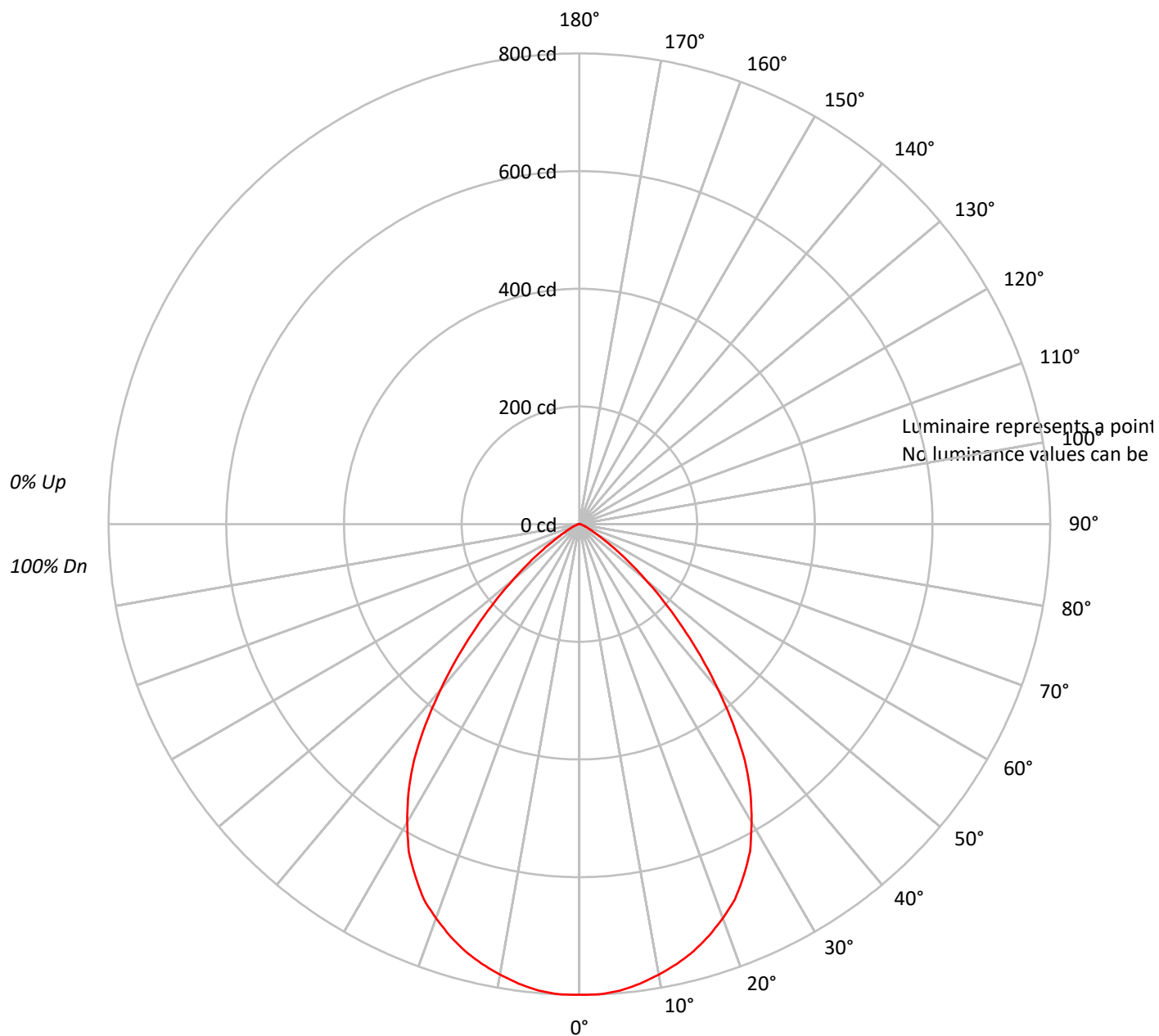
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 102 |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 |  | 103 | 101 | 99  |  |  | 99  | 98  | 96  |  |  | 96  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  |  | 95  | 91  | 88  |  |  | 92  | 89  | 86  |  |  | 89  |
| 3   | 99  | 91  | 85  | 81  | 97  | 90  | 84  | 80  |  | 87  | 82  | 79  |  |  | 85  | 81  | 77  |  |  | 82  |
| 4   | 93  | 84  | 77  | 72  | 91  | 82  | 76  | 72  |  | 80  | 75  | 71  |  |  | 78  | 74  | 70  |  |  | 76  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 69  | 65  |  | 74  | 68  | 64  |  |  | 72  | 67  | 63  |  |  | 71  |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 59  |  | 68  | 62  | 58  |  |  | 67  | 62  | 58  |  |  | 65  |
| 7   | 76  | 65  | 58  | 53  | 75  | 65  | 58  | 53  |  | 63  | 57  | 53  |  |  | 62  | 57  | 53  |  |  | 61  |
| 8   | 72  | 61  | 54  | 49  | 70  | 60  | 53  | 49  |  | 59  | 53  | 49  |  |  | 58  | 52  | 48  |  |  | 57  |
| 9   | 68  | 57  | 50  | 45  | 66  | 56  | 49  | 45  |  | 55  | 49  | 45  |  |  | 54  | 48  | 45  |  |  | 53  |
| 10  | 64  | 53  | 46  | 42  | 63  | 52  | 46  | 42  |  | 51  | 45  | 41  |  |  | 51  | 45  | 41  |  |  | 50  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.4   | 6.4       |
| 10°-20°   | 211.3  | 18.0      |
| 20°-30°   | 302.3  | 25.7      |
| 30°-40°   | 301.3  | 25.6      |
| 40°-50°   | 191.9  | 16.3      |
| 50°-60°   | 70.8   | 6.0       |
| 60°-70°   | 17.7   | 1.5       |
| 70°-80°   | 5.4    | 0.5       |
| 80°-90°   | 0.8    | 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°    | 589.0  | 50.0      |
| 0°-40°    | 890.4  | 75.7      |
| 0°-60°    | 1153.1 | 98.0      |
| 0°-90°    | 1177.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1177.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 800 |      |
| 5°  | 796 | 75   |
| 15° | 751 | 211  |
| 25° | 660 | 302  |
| 35° | 490 | 301  |
| 45° | 247 | 192  |
| 55° | 75  | 71   |
| 65° | 16  | 18   |
| 75° | 4   | 5    |
| 85° | 0   | 1    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 799.9 |
| 2.5°  | 799.9 |
| 5°    | 795.9 |
| 7.5°  | 787.8 |
| 10°   | 777.6 |
| 12.5° | 765.5 |
| 15°   | 751.3 |
| 17.5° | 733.1 |
| 20°   | 712.8 |
| 22.5° | 690.6 |
| 25°   | 660.2 |
| 27.5° | 627.8 |
| 30°   | 585.2 |
| 32.5° | 540.7 |
| 35°   | 490.1 |
| 37.5° | 429.3 |
| 40°   | 366.5 |
| 42.5° | 305.8 |
| 45°   | 247.1 |
| 47.5° | 194.4 |
| 50°   | 145.8 |
| 52.5° | 107.3 |
| 55°   | 74.9  |
| 57.5° | 48.6  |
| 60°   | 32.4  |
| 62.5° | 22.3  |
| 65°   | 16.2  |
| 67.5° | 12.2  |
| 70°   | 10.1  |
| 72.5° | 6.1   |
| 75°   | 4.1   |
| 77.5° | 4.1   |
| 80°   | 2.0   |
| 82.5° | 2.0   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)