

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: P203761

Luminaire Tested: **LSR6B20D010BZ EC6B10209727 6LBNWH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203761  
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: LSR6B20D010BZ EC6B10209727 6LBNWH1  
Description: PORTFOLIO 6IN CYLINDER  
NARROW DISTRIBUTION WITH WHEAT 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: 980.6 lumens  
Efficiency: N/A  
Efficacy: 47.1 lumens/watt  
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.64  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

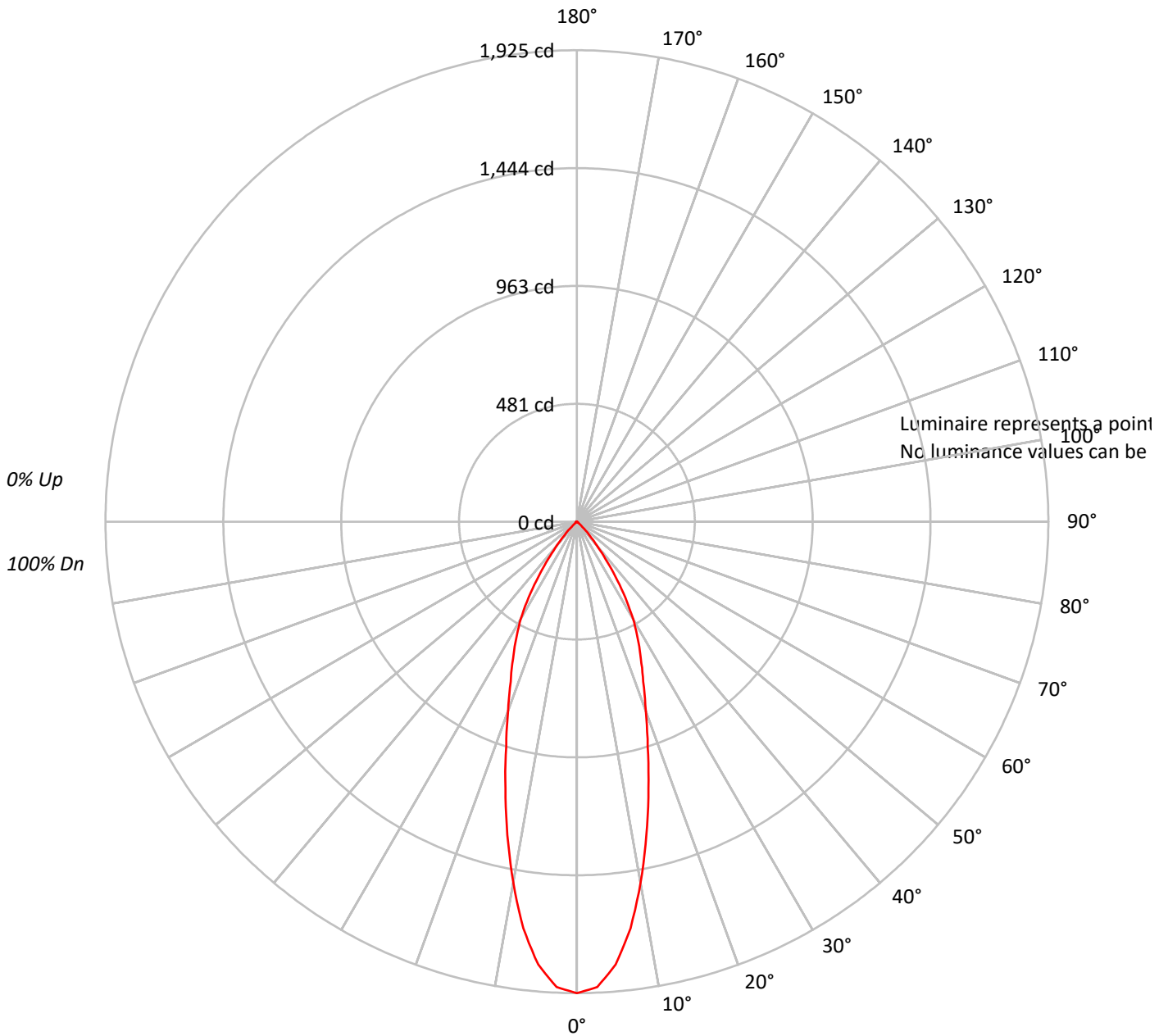
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  | 96  | 94  | 92  | 94  | 92  | 90  | 89  |
| 3   | 104 | 98  | 93  | 90  | 102 | 97  | 92  | 89  | 94  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 85  | 82  | 80  | 79  |
| 5   | 95  | 87  | 82  | 78  | 93  | 86  | 81  | 77  | 84  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 74  |
| 6   | 91  | 82  | 77  | 73  | 89  | 82  | 76  | 73  | 80  | 76  | 72  | 79  | 75  | 72  | 78  | 74  | 71  | 70  |
| 7   | 87  | 78  | 73  | 69  | 85  | 77  | 72  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 66  |
| 8   | 83  | 74  | 69  | 65  | 82  | 74  | 68  | 65  | 73  | 68  | 65  | 72  | 67  | 64  | 71  | 67  | 64  | 63  |
| 9   | 79  | 71  | 65  | 62  | 78  | 70  | 65  | 61  | 69  | 65  | 61  | 68  | 64  | 61  | 68  | 64  | 61  | 60  |
| 10  | 76  | 67  | 62  | 58  | 75  | 67  | 62  | 58  | 66  | 61  | 58  | 65  | 61  | 58  | 65  | 61  | 58  | 57  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 163.0  | 16.6      |
| 10°-20°   | 313.2  | 31.9      |
| 20°-30°   | 284.7  | 29.0      |
| 30°-40°   | 172.6  | 17.6      |
| 40°-50°   | 39.3   | 4.0       |
| 50°-60°   | 5.0    | 0.5       |
| 60°-70°   | 2.3    | 0.2       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.0    | 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°    | 760.8  | 77.6      |
| 0°-40°    | 933.4  | 95.2      |
| 0°-60°    | 977.7  | 99.7      |
| 0°-90°    | 980.6  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 980.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1925 |      |
| 5°  | 1815 | 163  |
| 15° | 1128 | 313  |
| 25° | 617  | 285  |
| 35° | 274  | 173  |
| 45° | 43   | 39   |
| 55° | 5    | 5    |
| 65° | 2    | 2    |
| 75° | 0    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1925.3 |
| 2.5°  | 1901.9 |
| 5°    | 1815.1 |
| 7.5°  | 1675.0 |
| 10°   | 1496.5 |
| 12.5° | 1311.3 |
| 15°   | 1127.8 |
| 17.5° | 961.0  |
| 20°   | 820.8  |
| 22.5° | 707.4  |
| 25°   | 617.3  |
| 27.5° | 537.2  |
| 30°   | 458.8  |
| 32.5° | 367.0  |
| 35°   | 273.6  |
| 37.5° | 191.9  |
| 40°   | 126.8  |
| 42.5° | 78.4   |
| 45°   | 43.4   |
| 47.5° | 20.0   |
| 50°   | 8.3    |
| 52.5° | 6.7    |
| 55°   | 5.0    |
| 57.5° | 5.0    |
| 60°   | 3.3    |
| 62.5° | 3.3    |
| 65°   | 1.7    |
| 67.5° | 1.7    |
| 70°   | 1.7    |
| 72.5° | 1.7    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)