

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: P202548

Luminaire Tested: **LSR6B40D010BZ EC6B30509035 6LBSWMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P202548  
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: LSR6B40D010BZ EC6B30509035 6LBSWMH1  
Description: PORTFOLIO 6IN CYLINDER  
SHALLOW DISTRIBUTION WITH WARM HAZE TRIM  
WATTAGE D010TR-43.02 W DE010-42.54 W D5LT-42.539 W DMX-41.87 W DL2-41.57  
W DL3-44.71 W DLE-39.33 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3803.2 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 0.97 / 1.1  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

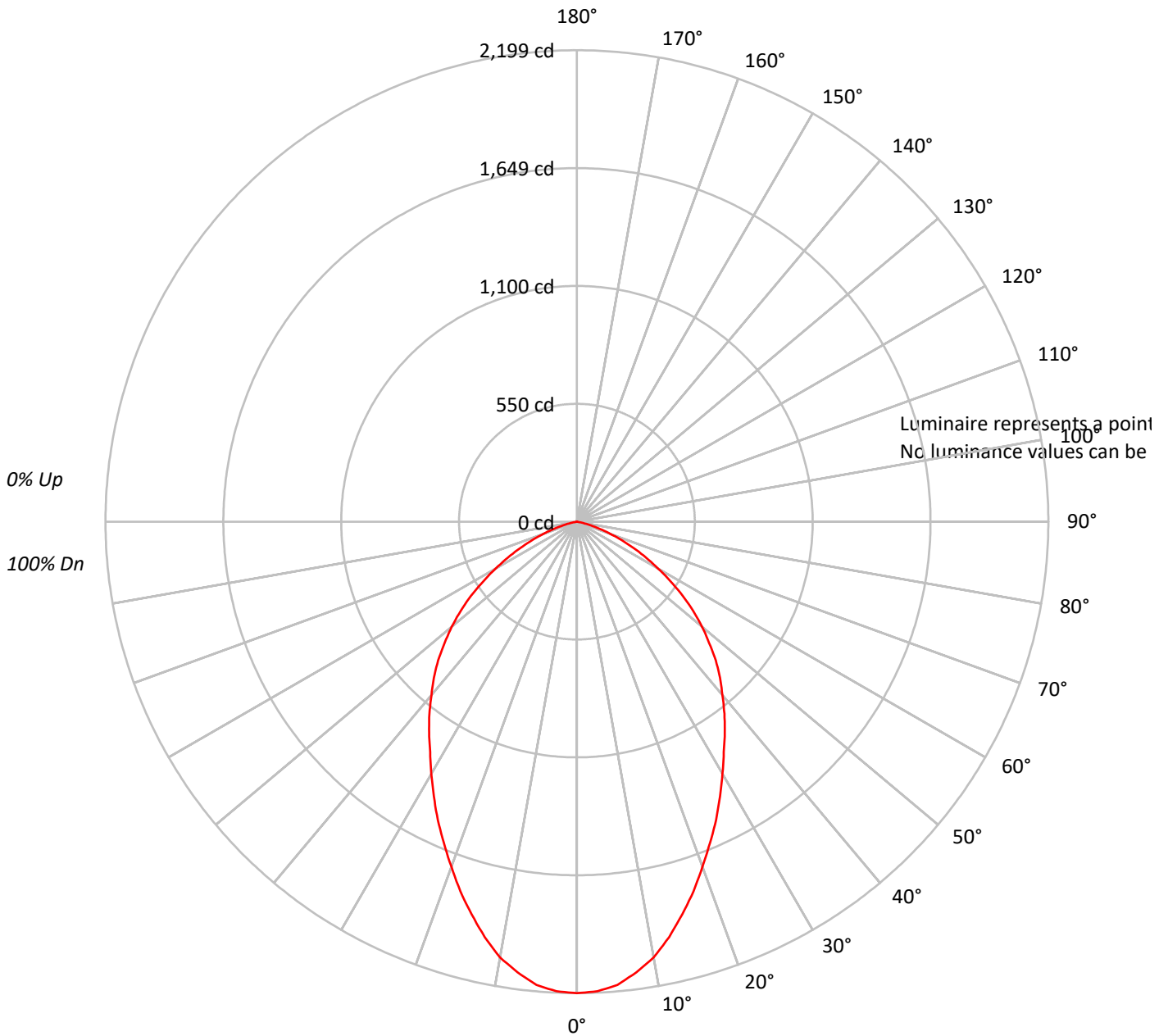
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |
| 2   | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 82  | 87  | 84  | 81  | 84  | 81  | 79  | 77  |
| 3   | 95  | 86  | 79  | 73  | 92  | 84  | 78  | 73  | 81  | 76  | 71  | 79  | 74  | 70  | 76  | 72  | 69  | 67  |
| 4   | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 48  | 47  |
| 7   | 70  | 58  | 50  | 45  | 69  | 57  | 50  | 45  | 56  | 49  | 44  | 55  | 48  | 44  | 53  | 48  | 44  | 42  |
| 8   | 66  | 54  | 46  | 40  | 64  | 53  | 45  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  |
| 9   | 62  | 49  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 36  | 46  | 40  | 36  | 35  |
| 10  | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 203.5  | 5.3       |
| 10°-20°   | 531.9  | 14.0      |
| 20°-30°   | 705.3  | 18.5      |
| 30°-40°   | 752.3  | 19.8      |
| 40°-50°   | 703.2  | 18.5      |
| 50°-60°   | 536.2  | 14.1      |
| 60°-70°   | 291.7  | 7.7       |
| 70°-80°   | 78.3   | 2.1       |
| 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°    | 1440.7 | 37.9      |
| 0°-40°    | 2192.9 | 57.7      |
| 0°-60°    | 3432.4 | 90.2      |
| 0°-90°    | 3803.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3803.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2199 |      |
| 5°  | 2169 | 203  |
| 15° | 1896 | 532  |
| 25° | 1535 | 705  |
| 35° | 1202 | 752  |
| 45° | 916  | 703  |
| 55° | 603  | 536  |
| 65° | 291  | 292  |
| 75° | 68   | 78   |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2199.3 |
| 2.5°  | 2192.3 |
| 5°    | 2169.0 |
| 7.5°  | 2120.0 |
| 10°   | 2064.1 |
| 12.5° | 1984.9 |
| 15°   | 1896.4 |
| 17.5° | 1807.9 |
| 20°   | 1712.3 |
| 22.5° | 1621.5 |
| 25°   | 1535.3 |
| 27.5° | 1444.4 |
| 30°   | 1358.2 |
| 32.5° | 1274.4 |
| 35°   | 1202.1 |
| 37.5° | 1129.9 |
| 40°   | 1055.4 |
| 42.5° | 987.8  |
| 45°   | 915.6  |
| 47.5° | 836.4  |
| 50°   | 761.8  |
| 52.5° | 682.6  |
| 55°   | 603.4  |
| 57.5° | 517.2  |
| 60°   | 438.0  |
| 62.5° | 363.4  |
| 65°   | 291.2  |
| 67.5° | 226.0  |
| 70°   | 165.4  |
| 72.5° | 114.2  |
| 75°   | 67.6   |
| 77.5° | 30.3   |
| 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)