

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: P203530

Luminaire Tested: **LSR6B10D010BZ EC6B10209730 6LBMMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203530  
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: LSR6B10D010BZ EC6B10209730 6LBMMW1  
Description: PORTFOLIO 6IN CYLINDER  
MEDIUM DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W  
DL3-11.1 W DLE-11.39 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 636.2 lumens  
Efficiency: N/A  
Efficacy: 64.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

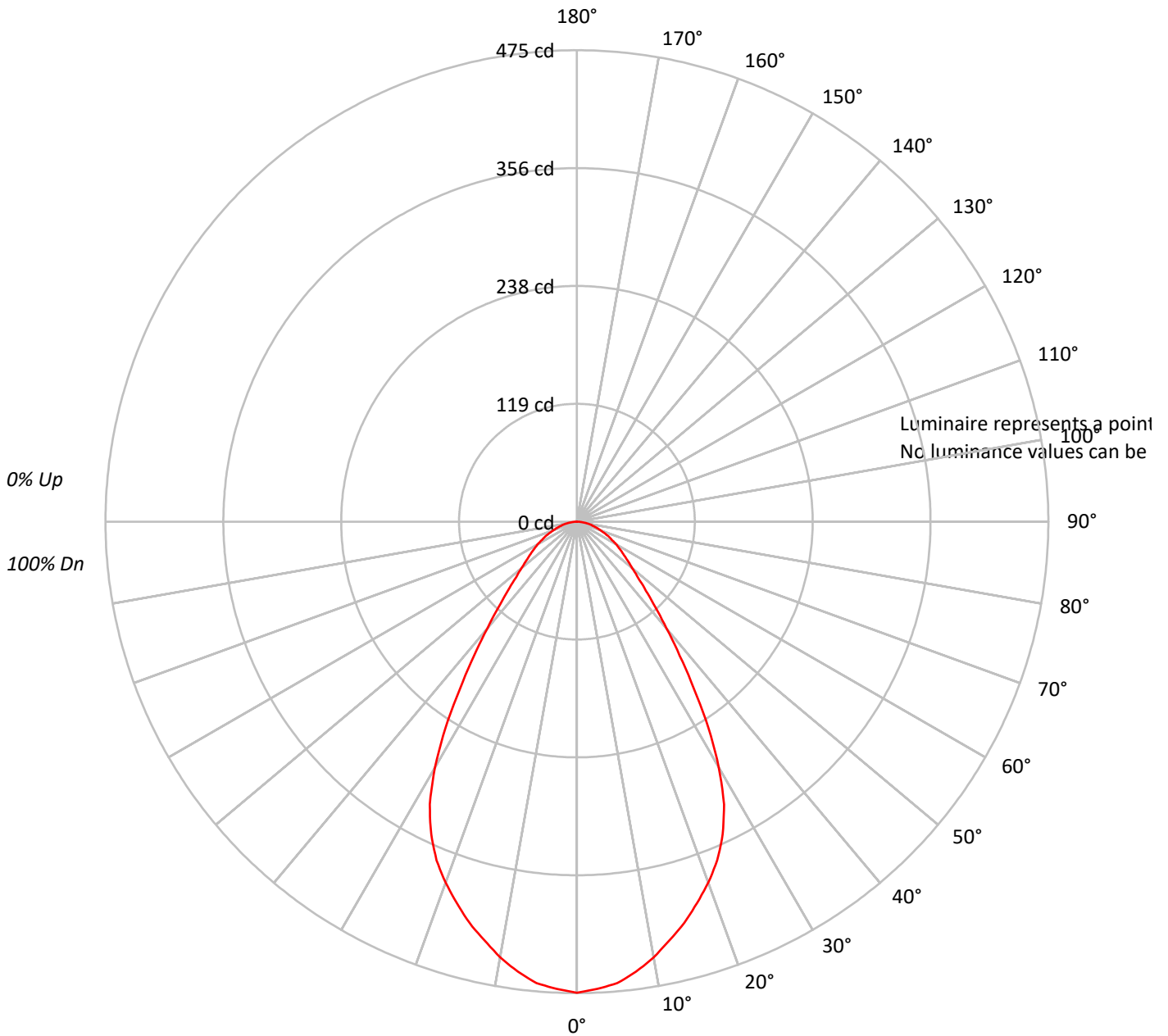
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P203530

CATALOG NUMBER: LSR6B10D010BZ EC6B10209730 6LBMMW1

### Luminous Intensity Polar Plot





TEST NUMBER: P203530

CATALOG NUMBER: LSR6B10D010BZ EC6B10209730 6LBMMW1

**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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 103 | 100 | 101 | 99  | 97  | 98  | 96  | 94  | 94  | 92  | 91  | 89  |    |    |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 83  | 81  | 79  |    |    |
| 3   | 97  | 88  | 82  | 77  | 95  | 87  | 81  | 76  | 84  | 79  | 75  | 82  | 77  | 74  | 79  | 76  | 73  | 71  |    |    |
| 4   | 90  | 81  | 74  | 68  | 88  | 80  | 73  | 68  | 77  | 72  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 64  |    |    |
| 5   | 85  | 74  | 67  | 61  | 83  | 73  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 59  | 58  |    |    |
| 6   | 79  | 68  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 53  |    |    |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 51  | 46  | 43  | 41  |    |    |
| 10  | 63  | 51  | 45  | 40  | 62  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 48  | 43  | 40  | 38  |    |    |

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





TEST NUMBER: P203530

CATALOG NUMBER: LSR6B10D010BZ EC6B10209730 6LBMMW1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.9   | 6.9       |
| 10°-20°   | 117.5  | 18.5      |
| 20°-30°   | 157.7  | 24.8      |
| 30°-40°   | 129.4  | 20.3      |
| 40°-50°   | 77.7   | 12.2      |
| 50°-60°   | 51.6   | 8.1       |
| 60°-70°   | 34.6   | 5.4       |
| 70°-80°   | 18.6   | 2.9       |
| 80°-90°   | 5.3    | 0.8       |
| 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°    | 319.0  | 50.1      |
| 0°-40°    | 448.4  | 70.5      |
| 0°-60°    | 577.7  | 90.8      |
| 0°-90°    | 636.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 636.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 475 |      |
| 5°  | 467 | 44   |
| 15° | 418 | 117  |
| 25° | 348 | 158  |
| 35° | 205 | 129  |
| 45° | 98  | 78   |
| 55° | 57  | 52   |
| 65° | 35  | 35   |
| 75° | 18  | 19   |
| 85° | 4   | 5    |
| 90° | 0   |      |



TEST NUMBER: P203530

CATALOG NUMBER: LSR6B10D010BZ EC6B10209730 6LBMMW1

**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 474.7 |
| 2.5°  | 471.2 |
| 5°    | 466.8 |
| 7.5°  | 457.2 |
| 10°   | 445.7 |
| 12.5° | 431.7 |
| 15°   | 418.5 |
| 17.5° | 402.7 |
| 20°   | 387.0 |
| 22.5° | 369.4 |
| 25°   | 347.5 |
| 27.5° | 321.1 |
| 30°   | 286.0 |
| 32.5° | 246.6 |
| 35°   | 205.3 |
| 37.5° | 170.2 |
| 40°   | 140.4 |
| 42.5° | 116.7 |
| 45°   | 98.3  |
| 47.5° | 83.4  |
| 50°   | 72.8  |
| 52.5° | 64.1  |
| 55°   | 57.0  |
| 57.5° | 50.9  |
| 60°   | 45.6  |
| 62.5° | 39.5  |
| 65°   | 35.1  |
| 67.5° | 29.8  |
| 70°   | 25.4  |
| 72.5° | 21.1  |
| 75°   | 17.5  |
| 77.5° | 14.0  |
| 80°   | 10.5  |
| 82.5° | 7.9   |
| 85°   | 4.4   |
| 87.5° | 1.8   |
| 90°   | 0.0   |



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)