

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: P205516

Luminaire Tested: **LSR6B30D010BZ EC6B30509030 6LBMGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205516  
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: LSR6B30D010BZ EC6B30509030 6LBMGPH1  
Description: PORTFOLIO 6IN CYLINDER  
MEDIUM 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: 1408.1 lumens  
Efficiency: N/A  
Efficacy: 50.3 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

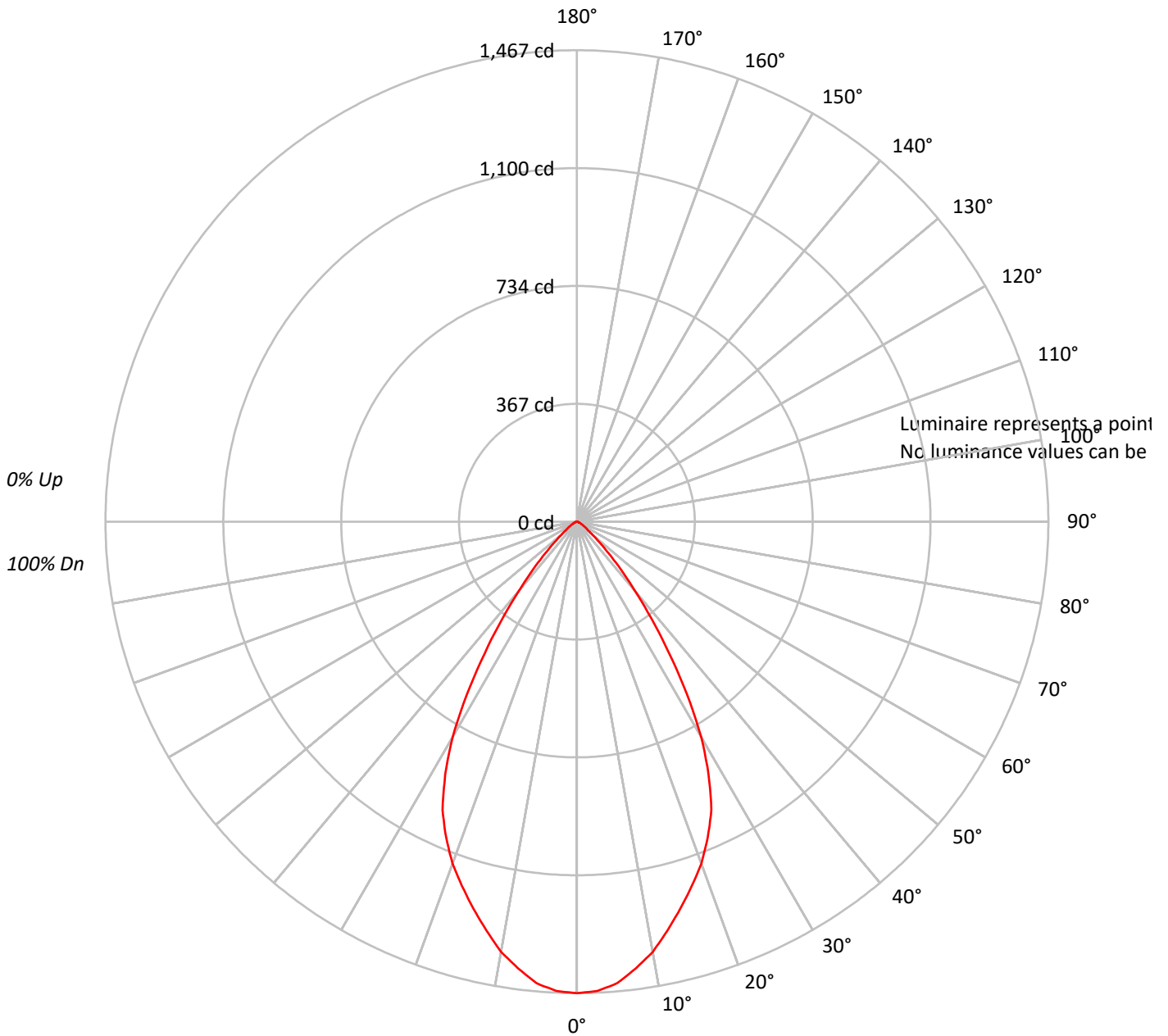
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P205516

CATALOG NUMBER: LSR6B30D010BZ EC6B30509030 6LBMGPH1

### Luminous Intensity Polar Plot





TEST NUMBER: P205516

CATALOG NUMBER: LSR6B30D010BZ EC6B30509030 6LBMGPH1

**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   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 97  | 93  | 97  | 94  | 91  | 94  | 92  | 89  | 91  | 89  | 87  | 86  |
| 3   | 102 | 95  | 90  | 85  | 100 | 93  | 89  | 85  | 91  | 87  | 83  | 88  | 85  | 82  | 86  | 83  | 81  | 79  |
| 4   | 96  | 88  | 82  | 78  | 94  | 87  | 82  | 77  | 85  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 73  |
| 5   | 91  | 82  | 76  | 72  | 89  | 81  | 76  | 71  | 79  | 74  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 68  |
| 6   | 86  | 77  | 71  | 66  | 85  | 76  | 70  | 66  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 64  | 63  |
| 7   | 82  | 72  | 66  | 61  | 80  | 71  | 65  | 61  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 59  |
| 8   | 77  | 68  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 60  | 57  | 65  | 60  | 56  | 64  | 59  | 56  | 55  |
| 9   | 74  | 64  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 51  |
| 10  | 70  | 60  | 54  | 50  | 69  | 59  | 54  | 50  | 59  | 53  | 50  | 58  | 53  | 49  | 57  | 53  | 49  | 48  |

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





TEST NUMBER: P205516

CATALOG NUMBER: LSR6B30D010BZ EC6B30509030 6LBMGPH1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.8  | 9.6       |
| 10°-20°   | 349.8  | 24.8      |
| 20°-30°   | 445.7  | 31.7      |
| 30°-40°   | 315.0  | 22.4      |
| 40°-50°   | 115.0  | 8.2       |
| 50°-60°   | 31.9   | 2.3       |
| 60°-70°   | 11.6   | 0.8       |
| 70°-80°   | 4.1    | 0.3       |
| 80°-90°   | 0.4    | 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°    | 930.2  | 66.1      |
| 0°-40°    | 1245.2 | 88.4      |
| 0°-60°    | 1392.0 | 98.9      |
| 0°-90°    | 1408.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1408.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1467 |      |
| 5°  | 1442 | 135  |
| 15° | 1246 | 350  |
| 25° | 990  | 446  |
| 35° | 500  | 315  |
| 45° | 139  | 115  |
| 55° | 34   | 32   |
| 65° | 11   | 12   |
| 75° | 3    | 4    |
| 85° | 0    | 0    |
| 90° | 0    |      |



TEST NUMBER: P205516

CATALOG NUMBER: LSR6B30D010BZ EC6B30509030 6LBMGPH1

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1467.3 |
| 2.5°  | 1461.6 |
| 5°    | 1441.7 |
| 7.5°  | 1401.9 |
| 10°   | 1359.2 |
| 12.5° | 1302.4 |
| 15°   | 1245.5 |
| 17.5° | 1188.6 |
| 20°   | 1131.8 |
| 22.5° | 1063.5 |
| 25°   | 989.6  |
| 27.5° | 887.2  |
| 30°   | 773.5  |
| 32.5° | 637.0  |
| 35°   | 500.5  |
| 37.5° | 381.0  |
| 40°   | 278.7  |
| 42.5° | 201.9  |
| 45°   | 139.3  |
| 47.5° | 93.8   |
| 50°   | 62.6   |
| 52.5° | 42.7   |
| 55°   | 34.1   |
| 57.5° | 25.6   |
| 60°   | 19.9   |
| 62.5° | 14.2   |
| 65°   | 11.4   |
| 67.5° | 8.5    |
| 70°   | 5.7    |
| 72.5° | 5.7    |
| 75°   | 2.8    |
| 77.5° | 2.8    |
| 80°   | 2.8    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)