

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: P203075

Luminaire Tested: **LD6B50D010TE EU6B30509030 6LBWB1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203075  
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: LD6B50D010TE EU6B30509030 6LBWB1  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH SPECULAR BLACK TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2567.8 lumens  
Efficiency: N/A  
Efficacy: 43.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.08  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

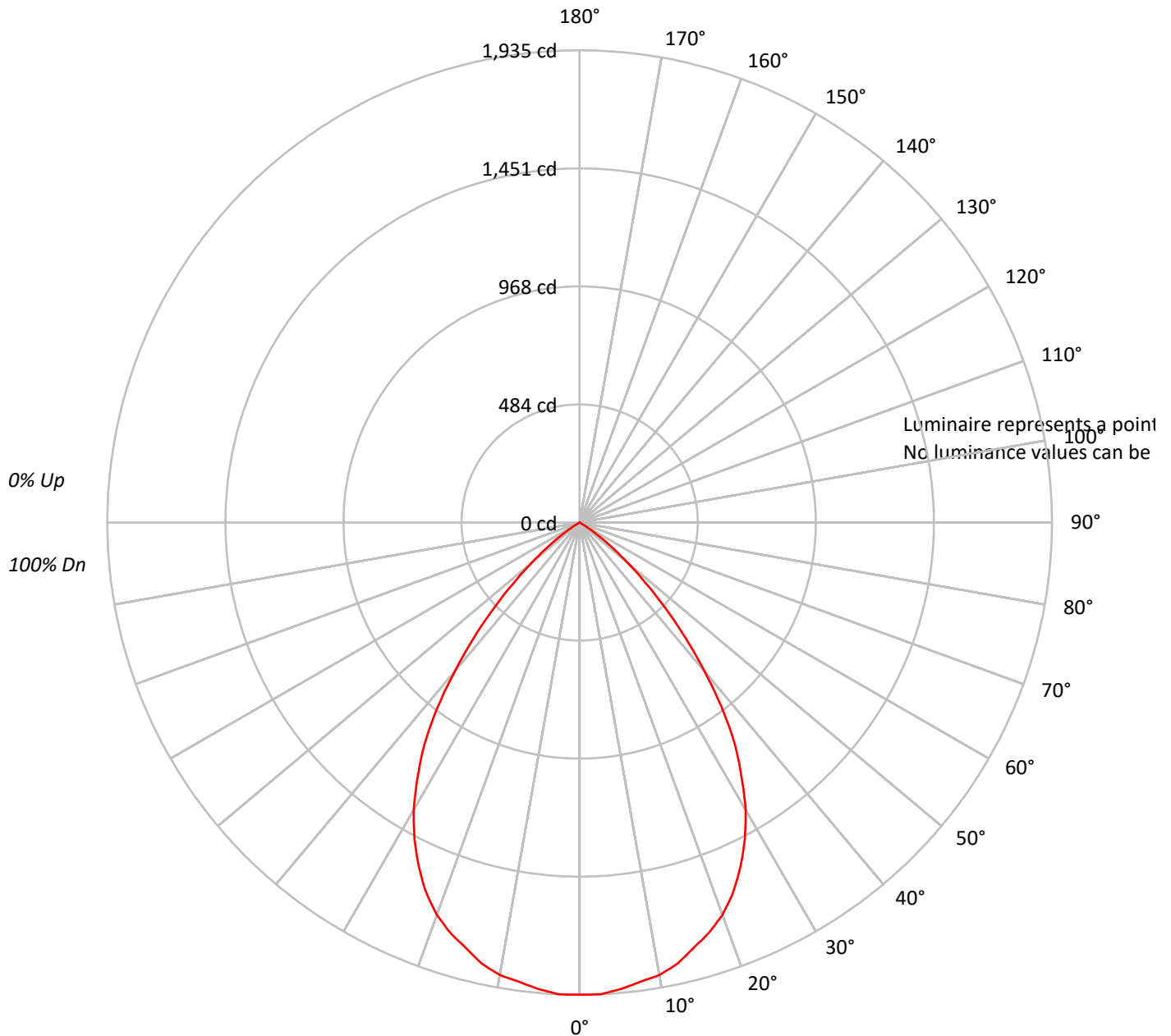
Input Watts (W): 58.77  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P203075

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBWB1

### Luminous Intensity Polar Plot





TEST NUMBER: P203075

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBWB1

**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  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 113 | 110 | 107 | 105 |  | 110 | 108 | 105 | 103 |  | 104 | 102 | 100 |  | 100 | 98  | 97  |  | 96  | 95  | 94  |
| 2   | 106 | 101 | 97  | 93  |  | 104 | 99  | 95  | 92  |  | 96  | 93  | 90  |  | 93  | 90  | 88  |  | 90  | 88  | 86  |
| 3   | 100 | 93  | 87  | 83  |  | 98  | 92  | 86  | 82  |  | 89  | 85  | 81  |  | 86  | 83  | 80  |  | 84  | 81  | 78  |
| 4   | 94  | 86  | 79  | 75  |  | 92  | 85  | 79  | 74  |  | 82  | 77  | 73  |  | 80  | 76  | 73  |  | 78  | 75  | 72  |
| 5   | 89  | 79  | 73  | 68  |  | 87  | 78  | 72  | 67  |  | 76  | 71  | 67  |  | 75  | 70  | 66  |  | 73  | 69  | 66  |
| 6   | 83  | 73  | 67  | 62  |  | 82  | 72  | 66  | 61  |  | 71  | 65  | 61  |  | 69  | 64  | 61  |  | 68  | 64  | 60  |
| 7   | 78  | 68  | 61  | 56  |  | 77  | 67  | 61  | 56  |  | 66  | 60  | 56  |  | 65  | 60  | 56  |  | 63  | 59  | 55  |
| 8   | 74  | 63  | 57  | 52  |  | 73  | 63  | 56  | 52  |  | 61  | 56  | 52  |  | 60  | 55  | 51  |  | 59  | 55  | 51  |
| 9   | 70  | 59  | 52  | 48  |  | 69  | 58  | 52  | 48  |  | 57  | 52  | 48  |  | 57  | 51  | 47  |  | 56  | 51  | 47  |
| 10  | 66  | 55  | 49  | 44  |  | 65  | 55  | 49  | 44  |  | 54  | 48  | 44  |  | 53  | 48  | 44  |  | 52  | 47  | 44  |

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





TEST NUMBER: P203075

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBWB1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 182.0  | 7.1       |
| 10°-20°   | 508.8  | 19.8      |
| 20°-30°   | 712.8  | 27.8      |
| 30°-40°   | 680.7  | 26.5      |
| 40°-50°   | 387.7  | 15.1      |
| 50°-60°   | 94.7   | 3.7       |
| 60°-70°   | 1.3    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 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°    | 1403.5 | 54.7      |
| 0°-40°    | 2084.2 | 81.2      |
| 0°-60°    | 2566.6 | 100.0     |
| 0°-90°    | 2567.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2567.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1935 |      |
| 5°  | 1920 | 182  |
| 15° | 1804 | 509  |
| 25° | 1559 | 713  |
| 35° | 1109 | 681  |
| 45° | 497  | 388  |
| 55° | 94   | 95   |
| 65° | 0    | 1    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



TEST NUMBER: P203075

CATALOG NUMBER: LD6B50D010TE EU6B30509030 6LBWB1

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1935.3 |
| 2.5°  | 1935.3 |
| 5°    | 1919.6 |
| 7.5°  | 1898.7 |
| 10°   | 1883.0 |
| 12.5° | 1851.6 |
| 15°   | 1804.5 |
| 17.5° | 1762.7 |
| 20°   | 1710.4 |
| 22.5° | 1642.4 |
| 25°   | 1558.7 |
| 27.5° | 1464.6 |
| 30°   | 1359.9 |
| 32.5° | 1234.4 |
| 35°   | 1108.9 |
| 37.5° | 957.2  |
| 40°   | 795.0  |
| 42.5° | 643.4  |
| 45°   | 496.9  |
| 47.5° | 366.1  |
| 50°   | 256.3  |
| 52.5° | 162.1  |
| 55°   | 94.1   |
| 57.5° | 41.8   |
| 60°   | 10.5   |
| 62.5° | 0.0    |
| 65°   | 0.0    |
| 67.5° | 0.0    |
| 70°   | 0.0    |
| 72.5° | 0.0    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)