

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: P203565

Luminaire Tested: **LD6B30D010 EU6B30509035 6LBMMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203565  
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: LD6B30D010 EU6B30509035 6LBMMW1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH MATTE WHITE 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: 2053.0 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

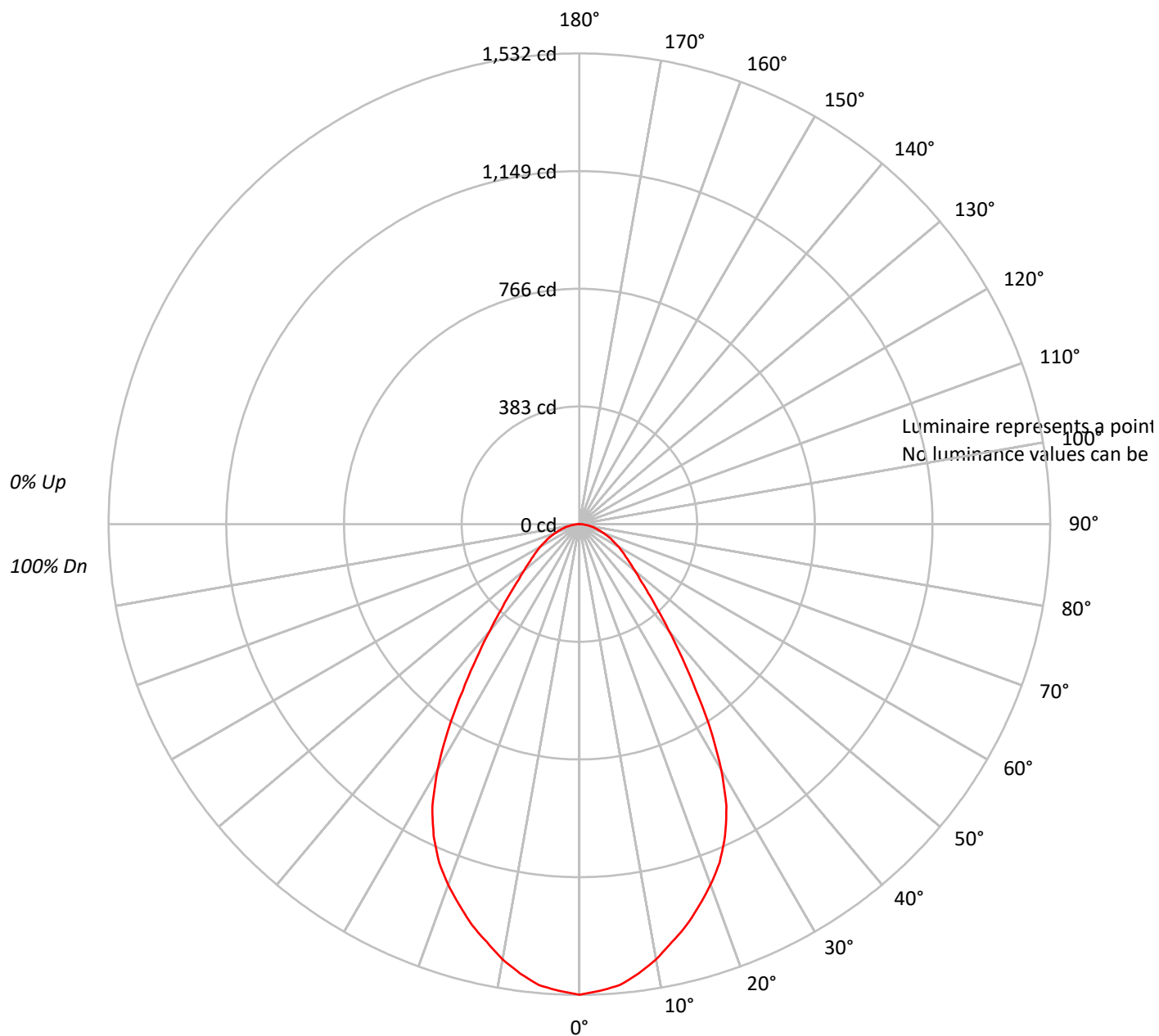
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P203565

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBMWW1

### Luminous Intensity Polar Plot





TEST NUMBER: P203565

CATALOG NUMBER: LD6B30D010 EU6B30509035 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 | 0 |  |  |  |
| 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: P203565

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBMMW1

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 141.5  | 6.9       |
| 10°-20°   | 379.0  | 18.5      |
| 20°-30°   | 508.9  | 24.8      |
| 30°-40°   | 417.5  | 20.3      |
| 40°-50°   | 250.7  | 12.2      |
| 50°-60°   | 166.6  | 8.1       |
| 60°-70°   | 111.7  | 5.4       |
| 70°-80°   | 60.1   | 2.9       |
| 80°-90°   | 17.0   | 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°    | 1029.5 | 50.1      |
| 0°-40°    | 1446.9 | 70.5      |
| 0°-60°    | 1864.2 | 90.8      |
| 0°-90°    | 2053.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2053.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1532 |      |
| 5°  | 1506 | 142  |
| 15° | 1351 | 379  |
| 25° | 1121 | 509  |
| 35° | 663  | 417  |
| 45° | 317  | 251  |
| 55° | 184  | 167  |
| 65° | 113  | 112  |
| 75° | 57   | 60   |
| 85° | 14   | 17   |
| 90° | 0    |      |



TEST NUMBER: P203565

CATALOG NUMBER: LD6B30D010 EU6B30509035 6LBMMW1

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1531.8 |
| 2.5°  | 1520.5 |
| 5°    | 1506.3 |
| 7.5°  | 1475.2 |
| 10°   | 1438.4 |
| 12.5° | 1393.1 |
| 15°   | 1350.6 |
| 17.5° | 1299.7 |
| 20°   | 1248.7 |
| 22.5° | 1192.1 |
| 25°   | 1121.3 |
| 27.5° | 1036.3 |
| 30°   | 923.1  |
| 32.5° | 795.6  |
| 35°   | 662.6  |
| 37.5° | 549.3  |
| 40°   | 453.0  |
| 42.5° | 376.6  |
| 45°   | 317.1  |
| 47.5° | 269.0  |
| 50°   | 235.0  |
| 52.5° | 206.7  |
| 55°   | 184.0  |
| 57.5° | 164.2  |
| 60°   | 147.2  |
| 62.5° | 127.4  |
| 65°   | 113.3  |
| 67.5° | 96.3   |
| 70°   | 82.1   |
| 72.5° | 68.0   |
| 75°   | 56.6   |
| 77.5° | 45.3   |
| 80°   | 34.0   |
| 82.5° | 25.5   |
| 85°   | 14.2   |
| 87.5° | 5.7    |
| 90°   | 0.0    |



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)