

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: P205525

Luminaire Tested: **LD6B40D010 EU6B30508040 6LBMGPH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205525  
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: LD6B40D010 EU6B30508040 6LBMGPH1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH GRAPHITE 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: 2414.5 lumens  
Efficiency: N/A  
Efficacy: 57.8 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

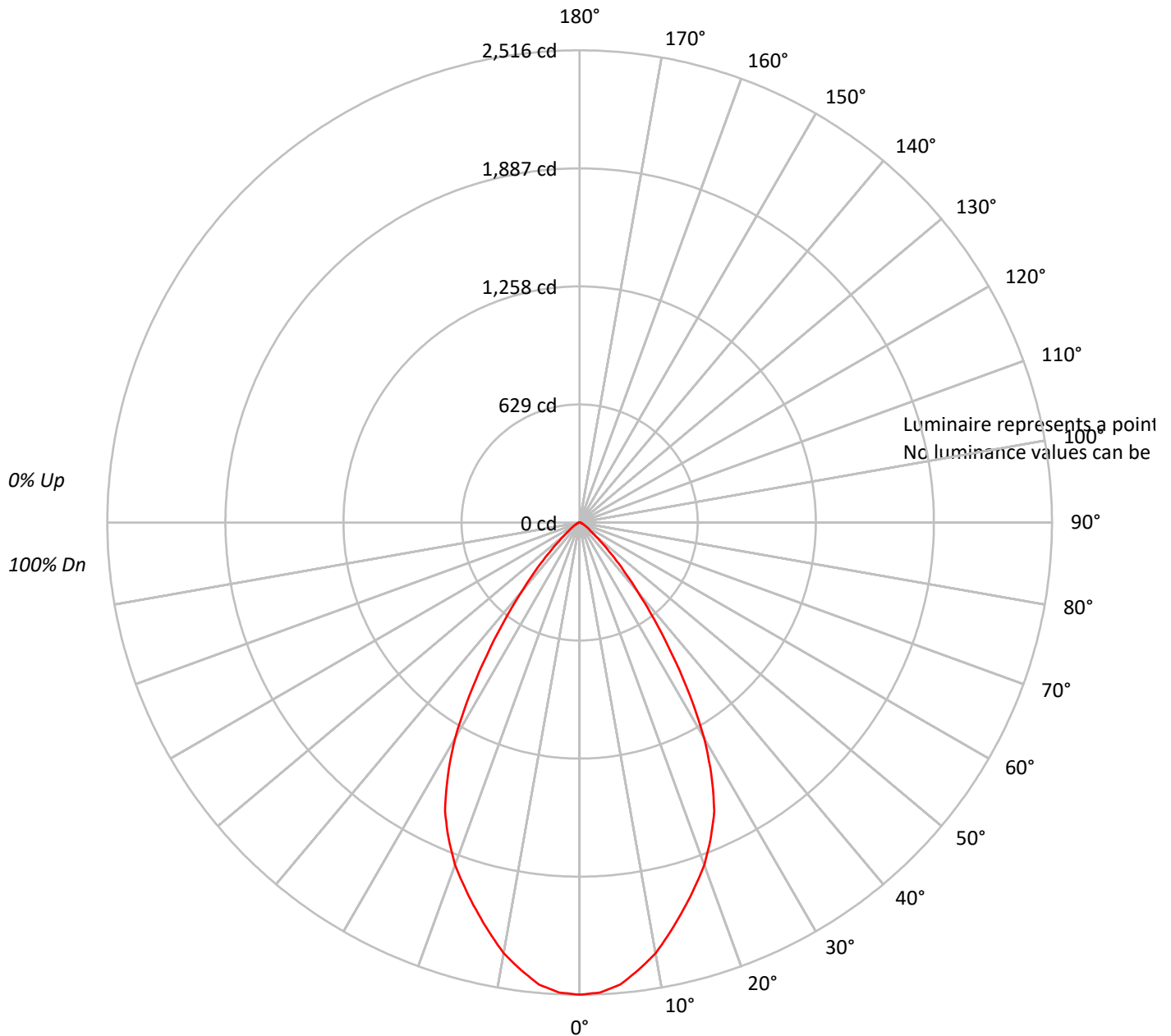
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |  |     |     | 0   |
| 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 | 108 | 105 | 111 | 108 | 106 | 104 |  | 104 | 102 | 101 |  | 100 | 99  | 98  |  | 97  | 96  | 95  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 97  | 93  |  | 97  | 94  | 91  |  | 94  | 92  | 89  |  | 91  | 89  | 87  |
| 3   | 102 | 95  | 90  | 85  | 100 | 93  | 89  | 85  |  | 91  | 87  | 83  |  | 88  | 85  | 82  |  | 86  | 83  | 81  |
| 4   | 96  | 88  | 82  | 78  | 94  | 87  | 82  | 77  |  | 85  | 80  | 77  |  | 83  | 79  | 76  |  | 81  | 78  | 75  |
| 5   | 91  | 82  | 76  | 72  | 89  | 81  | 76  | 71  |  | 79  | 74  | 71  |  | 78  | 73  | 70  |  | 76  | 72  | 69  |
| 6   | 86  | 77  | 71  | 66  | 85  | 76  | 70  | 66  |  | 74  | 69  | 65  |  | 73  | 68  | 65  |  | 72  | 68  | 64  |
| 7   | 82  | 72  | 66  | 61  | 80  | 71  | 65  | 61  |  | 70  | 65  | 61  |  | 69  | 64  | 60  |  | 68  | 63  | 60  |
| 8   | 77  | 68  | 61  | 57  | 76  | 67  | 61  | 57  |  | 66  | 60  | 57  |  | 65  | 60  | 56  |  | 64  | 59  | 56  |
| 9   | 74  | 64  | 57  | 53  | 72  | 63  | 57  | 53  |  | 62  | 57  | 53  |  | 61  | 56  | 53  |  | 60  | 56  | 53  |
| 10  | 70  | 60  | 54  | 50  | 69  | 59  | 54  | 50  |  | 59  | 53  | 50  |  | 58  | 53  | 49  |  | 57  | 53  | 49  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 231.1  | 9.6       |
| 10°-20°   | 599.8  | 24.8      |
| 20°-30°   | 764.2  | 31.6      |
| 30°-40°   | 540.1  | 22.4      |
| 40°-50°   | 197.2  | 8.2       |
| 50°-60°   | 54.6   | 2.3       |
| 60°-70°   | 19.8   | 0.8       |
| 70°-80°   | 7.1    | 0.3       |
| 80°-90°   | 0.7    | 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°    | 1595.1 | 66.1      |
| 0°-40°    | 2135.1 | 88.4      |
| 0°-60°    | 2386.9 | 98.9      |
| 0°-90°    | 2414.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2414.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2516 |      |
| 5°  | 2472 | 231  |
| 15° | 2136 | 600  |
| 25° | 1697 | 764  |
| 35° | 858  | 540  |
| 45° | 239  | 197  |
| 55° | 58   | 55   |
| 65° | 20   | 20   |
| 75° | 5    | 7    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2516.0 |
| 2.5°  | 2506.3 |
| 5°    | 2472.1 |
| 7.5°  | 2403.9 |
| 10°   | 2330.7 |
| 12.5° | 2233.2 |
| 15°   | 2135.7 |
| 17.5° | 2038.2 |
| 20°   | 1940.7 |
| 22.5° | 1823.6 |
| 25°   | 1696.9 |
| 27.5° | 1521.3 |
| 30°   | 1326.3 |
| 32.5° | 1092.2 |
| 35°   | 858.2  |
| 37.5° | 653.4  |
| 40°   | 477.8  |
| 42.5° | 346.2  |
| 45°   | 238.9  |
| 47.5° | 160.9  |
| 50°   | 107.3  |
| 52.5° | 73.1   |
| 55°   | 58.5   |
| 57.5° | 43.9   |
| 60°   | 34.1   |
| 62.5° | 24.4   |
| 65°   | 19.5   |
| 67.5° | 14.6   |
| 70°   | 9.8    |
| 72.5° | 9.8    |
| 75°   | 4.9    |
| 77.5° | 4.9    |
| 80°   | 4.9    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)