

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: P135466

Luminaire Tested: **LD6A20D010TE ERM6A20835 6LM1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P135466  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23371)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A20D010TE ERM6A20835 6LM1H  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 3500K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2201.9 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.9  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

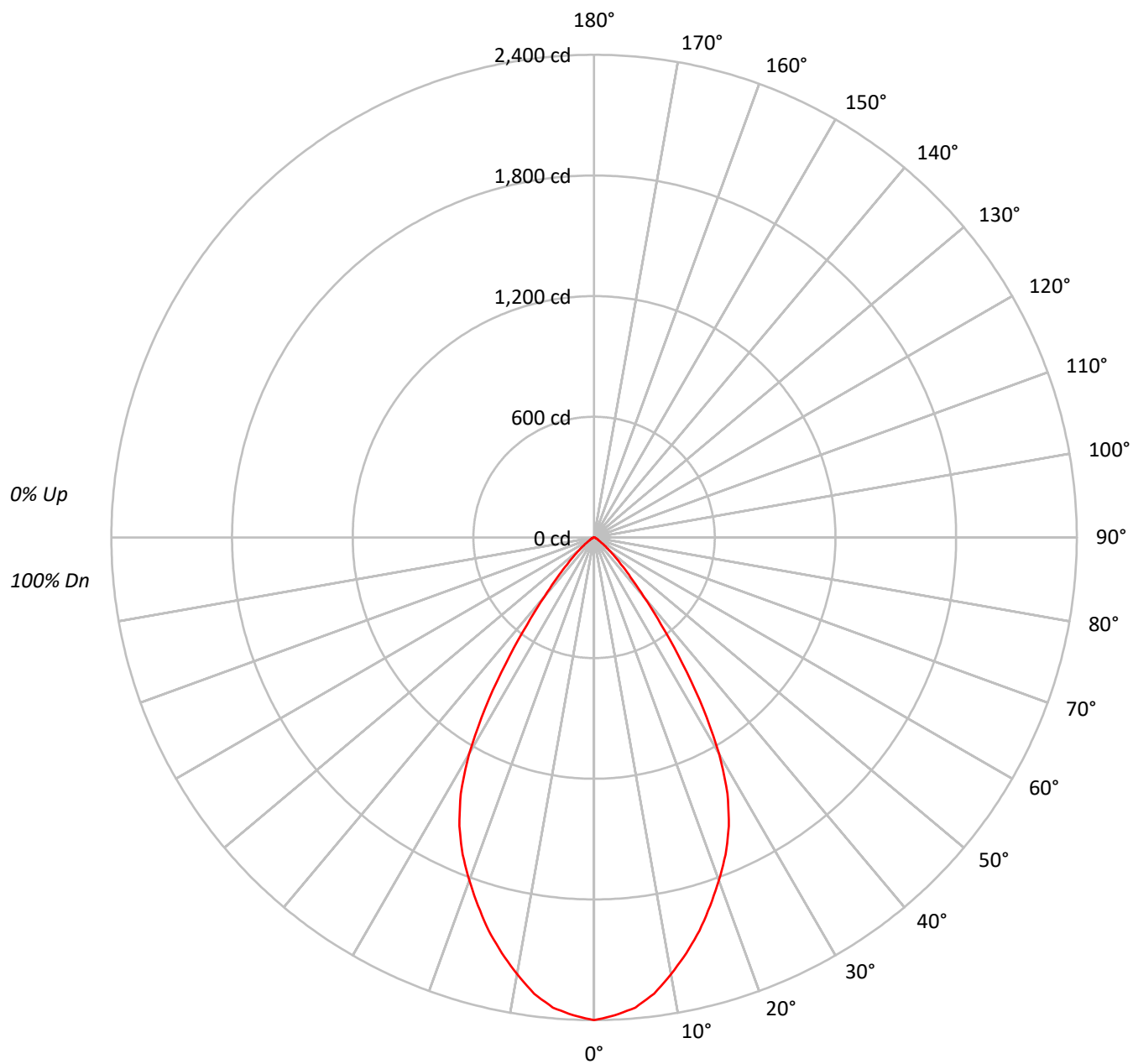
Input Watts (W): 32.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 |  | 101 | 99  | 98  |  | 97  |
| 2   | 108 | 103 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 94  | 92  |  | 95  | 92  | 90  |  | 92  |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  |  | 89  | 86  | 83  |  | 87  |
| 4   | 97  | 89  | 83  | 79  | 95  | 88  | 82  | 78  | 85  | 81  | 77  |  | 83  | 80  | 76  |  | 82  |
| 5   | 91  | 83  | 77  | 73  | 90  | 82  | 76  | 72  | 80  | 75  | 72  |  | 78  | 74  | 71  |  | 77  |
| 6   | 87  | 78  | 71  | 67  | 85  | 77  | 71  | 67  | 75  | 70  | 66  |  | 74  | 69  | 66  |  | 73  |
| 7   | 82  | 73  | 67  | 62  | 81  | 72  | 66  | 62  | 71  | 66  | 62  |  | 70  | 65  | 61  |  | 68  |
| 8   | 78  | 68  | 62  | 58  | 77  | 68  | 62  | 58  | 67  | 61  | 58  |  | 66  | 61  | 57  |  | 65  |
| 9   | 74  | 64  | 58  | 54  | 73  | 64  | 58  | 54  | 63  | 58  | 54  |  | 62  | 57  | 54  |  | 61  |
| 10  | 71  | 61  | 55  | 51  | 70  | 60  | 55  | 51  | 60  | 54  | 51  |  | 59  | 54  | 51  |  | 58  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 156604 |
| 5°  | 153685 |
| 10° | 146075 |
| 15° | 136725 |
| 20° | 125963 |
| 25° | 114082 |
| 30° | 93632  |
| 35° | 60872  |
| 40° | 32652  |
| 45° | 17576  |
| 50° | 9662   |
| 55° | 4720   |
| 60° | 2871   |
| 65° | 1883   |
| 70° | 1392   |
| 75° | 605    |
| 80° | 902    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 219.5  | 10.0      |
| 10°-20°   | 566.3  | 25.7      |
| 20°-30°   | 716.4  | 32.5      |
| 30°-40°   | 481.5  | 21.9      |
| 40°-50°   | 158.2  | 7.2       |
| 50°-60°   | 42.7   | 1.9       |
| 60°-70°   | 13.2   | 0.6       |
| 70°-80°   | 3.8    | 0.2       |
| 80°-90°   | 0.3    | 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°    | 1502.1 | 68.2      |
| 0°-40°    | 1983.6 | 90.1      |
| 0°-60°    | 2184.5 | 99.2      |
| 0°-90°    | 2201.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2201.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2400 |      |
| 5°  | 2347 | 219  |
| 15° | 2024 | 566  |
| 25° | 1585 | 716  |
| 35° | 764  | 482  |
| 45° | 190  | 158  |
| 55° | 42   | 43   |
| 65° | 12   | 13   |
| 75° | 2    | 4    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2400.4 |
| 2.5°  | 2378.4 |
| 5°    | 2346.7 |
| 7.5°  | 2288.1 |
| 10°   | 2205.0 |
| 12.5° | 2117.1 |
| 15°   | 2024.3 |
| 17.5° | 1919.3 |
| 20°   | 1814.3 |
| 22.5° | 1706.9 |
| 25°   | 1584.8 |
| 27.5° | 1435.8 |
| 30°   | 1242.9 |
| 32.5° | 1010.9 |
| 35°   | 764.3  |
| 37.5° | 547.0  |
| 40°   | 383.4  |
| 42.5° | 268.6  |
| 45°   | 190.5  |
| 47.5° | 134.3  |
| 50°   | 95.2   |
| 52.5° | 63.5   |
| 55°   | 41.5   |
| 57.5° | 29.3   |
| 60°   | 22.0   |
| 62.5° | 17.1   |
| 65°   | 12.2   |
| 67.5° | 9.8    |
| 70°   | 7.3    |
| 72.5° | 4.9    |
| 75°   | 2.4    |
| 77.5° | 2.4    |
| 80°   | 2.4    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)