

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: P136000

Luminaire Tested: **LD6A10D010TE ERW6A10827 6LW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136000  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23358)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A10D010TE ERW6A10827 6LW1LI  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOWNLIGHT  
WIDE DISTRIBUTION WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 2700K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1177.0 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

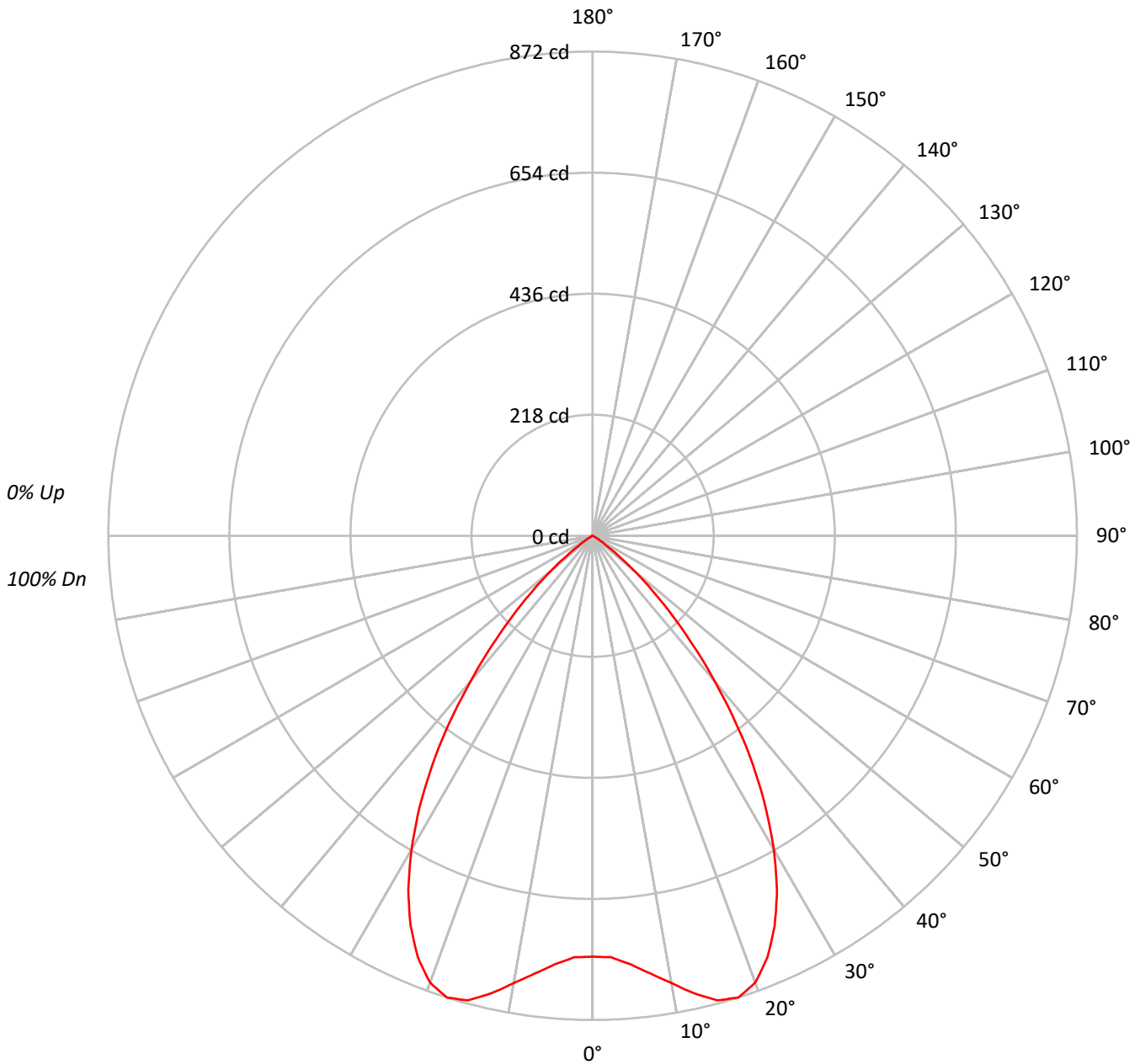
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |     | 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 | 100 | 100 | 100 |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 97  | 95  | 94  | 92  | 92  | 92  | 92  |
| 2   | 107 | 101 | 97  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 84  | 84  | 84  | 84  |
| 3   | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  | 89  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 79  | 77  | 77  | 77  | 77  |
| 4   | 94  | 86  | 80  | 75  | 93  | 85  | 79  | 75  | 83  | 78  | 74  | 81  | 76  | 73  | 79  | 75  | 72  | 70  | 70  | 70  | 70  |
| 5   | 89  | 80  | 73  | 68  | 87  | 79  | 73  | 68  | 77  | 71  | 67  | 75  | 70  | 67  | 73  | 69  | 66  | 65  | 65  | 65  | 65  |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 67  | 62  | 71  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  | 59  | 59  | 59  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 64  | 59  | 56  | 54  | 54  | 54  | 54  |
| 8   | 74  | 64  | 57  | 53  | 73  | 63  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  | 50  | 50  | 50  |
| 9   | 70  | 60  | 53  | 49  | 69  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 46  | 46  | 46  | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 44  | 43  | 43  | 43  | 43  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 49459 |
| 5°  | 50722 |
| 10° | 54183 |
| 15° | 58505 |
| 20° | 59451 |
| 25° | 55810 |
| 30° | 49155 |
| 35° | 40037 |
| 40° | 29076 |
| 45° | 18656 |
| 50° | 9805  |
| 55° | 3355  |
| 60° | 966   |
| 65° | 247   |
| 70° | 153   |
| 75° | 202   |
| 80° | 0     |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 75.3   | 6.4       |
| 10°-20°   | 243.0  | 20.6      |
| 20°-30°   | 352.5  | 30.0      |
| 30°-40°   | 310.5  | 26.4      |
| 40°-50°   | 159.0  | 13.5      |
| 50°-60°   | 33.5   | 2.8       |
| 60°-70°   | 2.6    | 0.2       |
| 70°-80°   | 0.5    | 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°    | 670.8  | 57.0      |
| 0°-40°    | 981.4  | 83.4      |
| 0°-60°    | 1173.9 | 99.7      |
| 0°-90°    | 1177.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1177.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 758 |      |
| 5°  | 774 | 75   |
| 15° | 866 | 243  |
| 25° | 775 | 353  |
| 35° | 503 | 311  |
| 45° | 202 | 159  |
| 55° | 30  | 33   |
| 65° | 2   | 3    |
| 75° | 1   | 1    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 758.1 |
| 2.5°  | 759.7 |
| 5°    | 774.5 |
| 7.5°  | 794.9 |
| 10°   | 817.9 |
| 12.5° | 844.1 |
| 15°   | 866.2 |
| 17.5° | 871.9 |
| 20°   | 856.3 |
| 22.5° | 821.9 |
| 25°   | 775.3 |
| 27.5° | 718.8 |
| 30°   | 652.5 |
| 32.5° | 579.6 |
| 35°   | 502.7 |
| 37.5° | 422.4 |
| 40°   | 341.4 |
| 42.5° | 268.5 |
| 45°   | 202.2 |
| 47.5° | 144.9 |
| 50°   | 96.6  |
| 52.5° | 56.5  |
| 55°   | 29.5  |
| 57.5° | 14.7  |
| 60°   | 7.4   |
| 62.5° | 3.3   |
| 65°   | 1.6   |
| 67.5° | 1.6   |
| 70°   | 0.8   |
| 72.5° | 0.8   |
| 75°   | 0.8   |
| 77.5° | 0.0   |
| 80°   | 0.0   |
| 82.5° | 0.0   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)