

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: P135287

Luminaire Tested: **LD6A10D010TE ERM6A10940 6LM1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P135287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23398)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A10D010TE ERM6A10940 6LM1LI  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 4000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1151.1 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.8  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

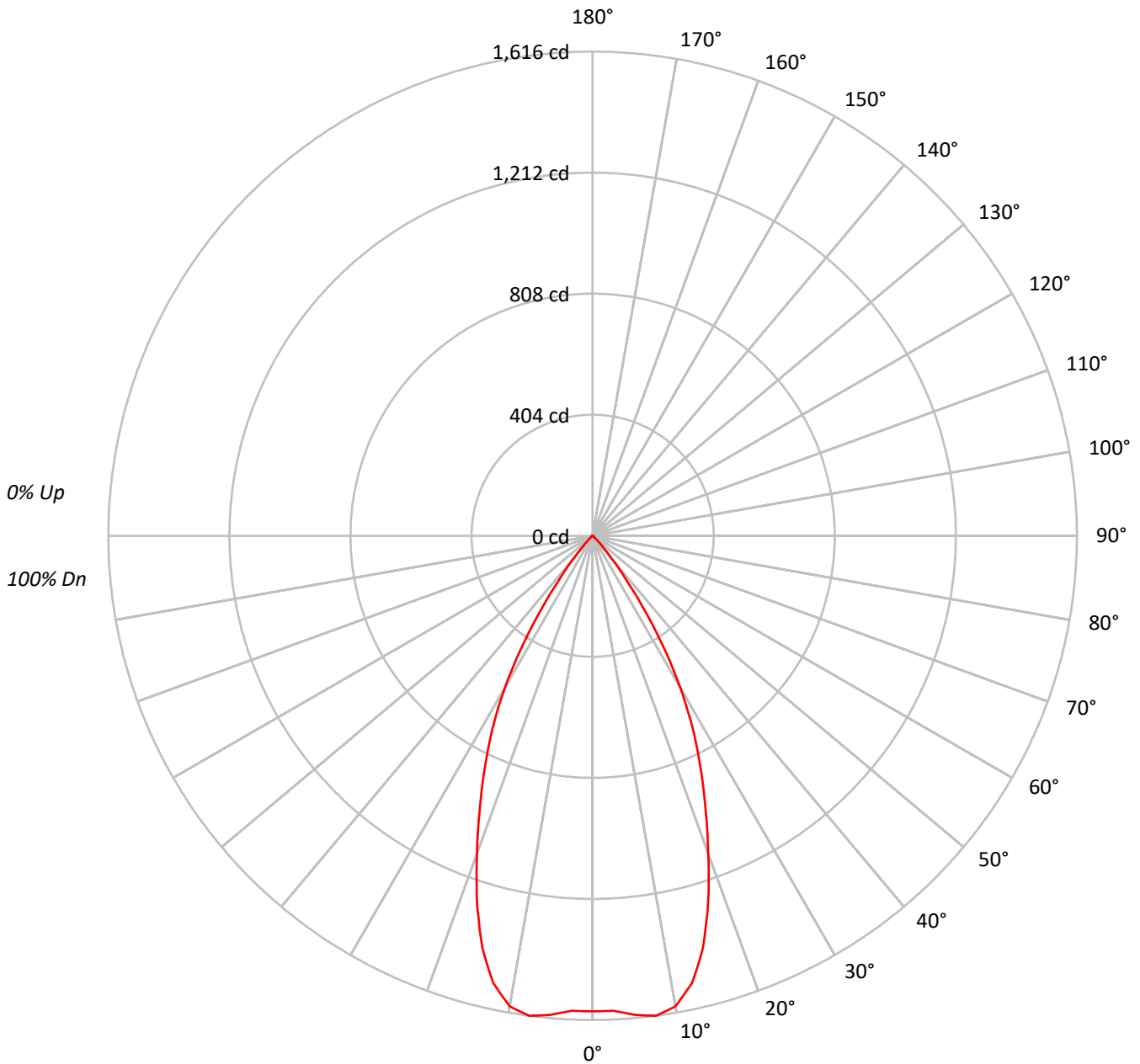
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 94  | 94  | 94  | 94  |
| 2   | 109 | 104 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 89  | 89  | 89  | 89  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  | 92  | 89  | 86  | 90  | 87  | 85  | 84  | 84  | 84  | 84  |
| 4   | 99  | 92  | 87  | 83  | 98  | 91  | 87  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 85  | 82  | 80  | 79  | 79  | 79  | 79  |
| 5   | 95  | 87  | 82  | 78  | 93  | 86  | 81  | 77  | 84  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 74  | 74  | 74  | 74  |
| 6   | 91  | 82  | 77  | 73  | 89  | 82  | 76  | 73  | 80  | 76  | 72  | 79  | 75  | 72  | 78  | 74  | 71  | 70  | 70  | 70  | 70  |
| 7   | 87  | 78  | 72  | 69  | 85  | 77  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 66  | 66  | 66  | 66  |
| 8   | 83  | 74  | 69  | 65  | 82  | 73  | 68  | 65  | 72  | 68  | 64  | 71  | 67  | 64  | 71  | 67  | 64  | 63  | 63  | 63  | 63  |
| 9   | 79  | 70  | 65  | 61  | 78  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 61  | 67  | 63  | 61  | 59  | 59  | 59  | 59  |
| 10  | 76  | 67  | 62  | 58  | 75  | 67  | 61  | 58  | 66  | 61  | 58  | 65  | 61  | 58  | 64  | 60  | 57  | 56  | 56  | 56  | 56  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 103569 |
| 5°  | 105085 |
| 10° | 105631 |
| 15° | 96106  |
| 20° | 78307  |
| 25° | 61195  |
| 30° | 44093  |
| 35° | 23559  |
| 40° | 8201   |
| 45° | 2224   |
| 50° | 710    |
| 55° | 353    |
| 60° | 209    |
| 65° | 108    |
| 70° | 134    |
| 75° | 176    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 153.1  | 13.3      |
| 10°-20°   | 389.7  | 33.9      |
| 20°-30°   | 387.4  | 33.7      |
| 30°-40°   | 190.7  | 16.6      |
| 40°-50°   | 25.7   | 2.2       |
| 50°-60°   | 3.0    | 0.3       |
| 60°-70°   | 1.0    | 0.1       |
| 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°    | 930.2  | 80.8      |
| 0°-40°    | 1121.0 | 97.4      |
| 0°-60°    | 1149.7 | 99.9      |
| 0°-90°    | 1151.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1151.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1588 |      |
| 5°  | 1605 | 153  |
| 15° | 1423 | 390  |
| 25° | 850  | 387  |
| 35° | 296  | 191  |
| 45° | 24   | 26   |
| 55° | 3    | 3    |
| 65° | 1    | 1    |
| 75° | 1    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1587.5 |
| 2.5°  | 1586.7 |
| 5°    | 1604.6 |
| 7.5°  | 1616.2 |
| 10°   | 1594.5 |
| 12.5° | 1530.0 |
| 15°   | 1422.9 |
| 17.5° | 1282.4 |
| 20°   | 1127.9 |
| 22.5° | 982.8  |
| 25°   | 850.1  |
| 27.5° | 721.2  |
| 30°   | 585.3  |
| 32.5° | 439.4  |
| 35°   | 295.8  |
| 37.5° | 177.7  |
| 40°   | 96.3   |
| 42.5° | 49.7   |
| 45°   | 24.1   |
| 47.5° | 11.7   |
| 50°   | 7.0    |
| 52.5° | 3.9    |
| 55°   | 3.1    |
| 57.5° | 2.3    |
| 60°   | 1.6    |
| 62.5° | 1.6    |
| 65°   | 0.7    |
| 67.5° | 0.7    |
| 70°   | 0.7    |
| 72.5° | 0.7    |
| 75°   | 0.7    |
| 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)