

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: P135350

Luminaire Tested: **LD6A20D010TE ERM6A20935 6LM1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P135350  
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: LD6A20D010TE ERM6A20935 6LM1LI  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 3500K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2314.3 lumens  
Efficiency: N/A  
Efficacy: 70.6 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

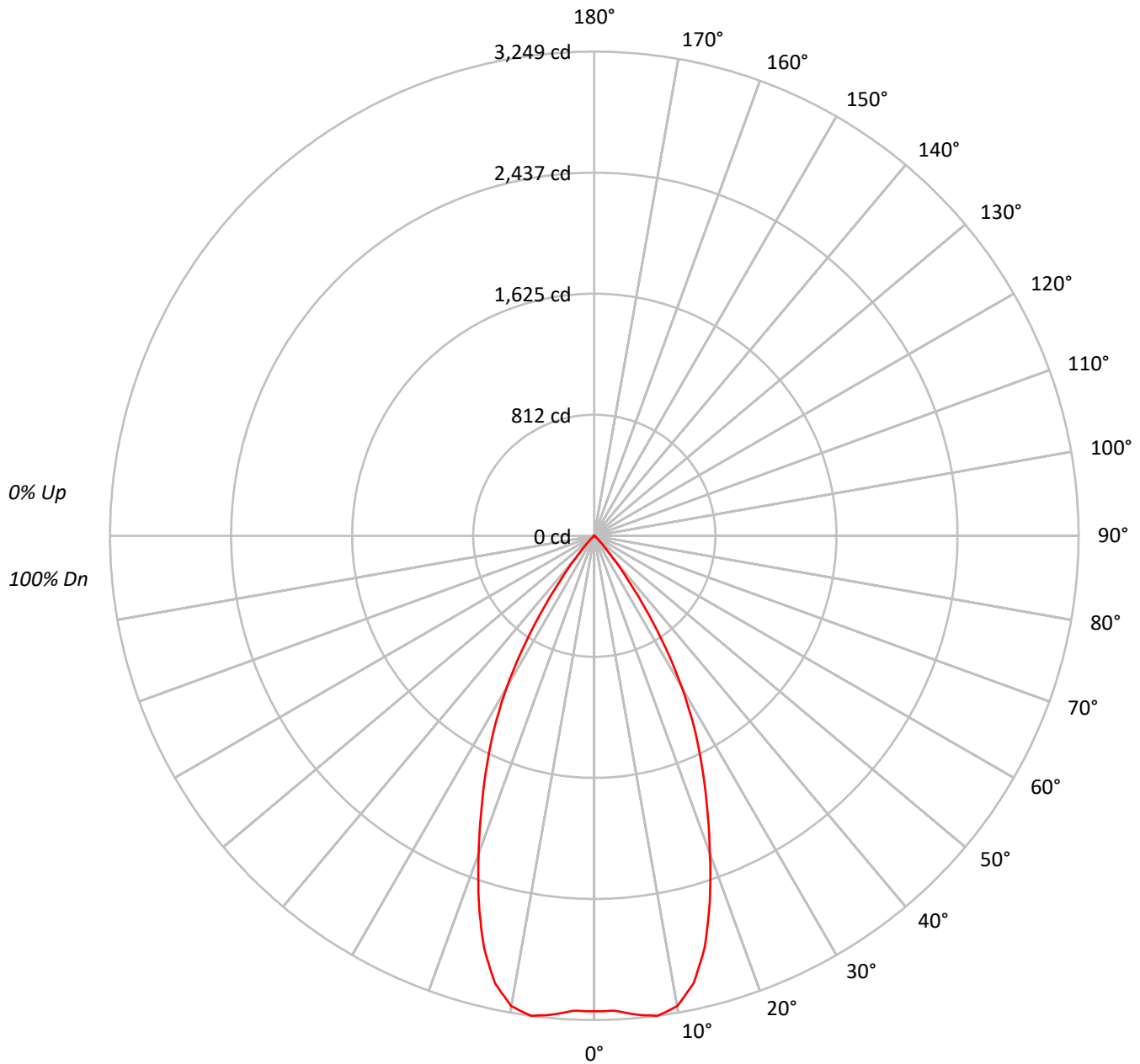
Input Watts (W): 32.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 208202 |
| 5°  | 211251 |
| 10° | 212348 |
| 15° | 193204 |
| 20° | 157427 |
| 25° | 123008 |
| 30° | 88645  |
| 35° | 47356  |
| 40° | 16480  |
| 45° | 4466   |
| 50° | 1421   |
| 55° | 717    |
| 60° | 404    |
| 65° | 247    |
| 70° | 305    |
| 75° | 403    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 307.8  | 13.3      |
| 10°-20°   | 783.4  | 33.9      |
| 20°-30°   | 778.8  | 33.7      |
| 30°-40°   | 383.4  | 16.6      |
| 40°-50°   | 51.5   | 2.2       |
| 50°-60°   | 6.1    | 0.3       |
| 60°-70°   | 2.1    | 0.1       |
| 70°-80°   | 1.0    | 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°    | 1870.1 | 80.8      |
| 0°-40°    | 2253.5 | 97.4      |
| 0°-60°    | 2311.1 | 99.9      |
| 0°-90°    | 2314.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2314.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3191 |      |
| 5°  | 3226 | 308  |
| 15° | 2860 | 783  |
| 25° | 1709 | 779  |
| 35° | 595  | 383  |
| 45° | 48   | 52   |
| 55° | 6    | 6    |
| 65° | 2    | 2    |
| 75° | 2    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3191.3 |
| 2.5°  | 3189.8 |
| 5°    | 3225.7 |
| 7.5°  | 3249.1 |
| 10°   | 3205.4 |
| 12.5° | 3075.9 |
| 15°   | 2860.5 |
| 17.5° | 2578.0 |
| 20°   | 2267.5 |
| 22.5° | 1975.7 |
| 25°   | 1708.8 |
| 27.5° | 1449.8 |
| 30°   | 1176.7 |
| 32.5° | 883.3  |
| 35°   | 594.6  |
| 37.5° | 357.4  |
| 40°   | 193.5  |
| 42.5° | 99.9   |
| 45°   | 48.4   |
| 47.5° | 23.4   |
| 50°   | 14.0   |
| 52.5° | 7.8    |
| 55°   | 6.3    |
| 57.5° | 4.7    |
| 60°   | 3.1    |
| 62.5° | 3.1    |
| 65°   | 1.6    |
| 67.5° | 1.6    |
| 70°   | 1.6    |
| 72.5° | 1.6    |
| 75°   | 1.6    |
| 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)