

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: P175518

Luminaire Tested: **LDA6A10940D010TE LAR35FL 6LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P175518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26295)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A10940D010TE LAR35FL 6LFC1  
Description: PORTFOLIO 6" Flat Cone, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 822.4 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.56  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

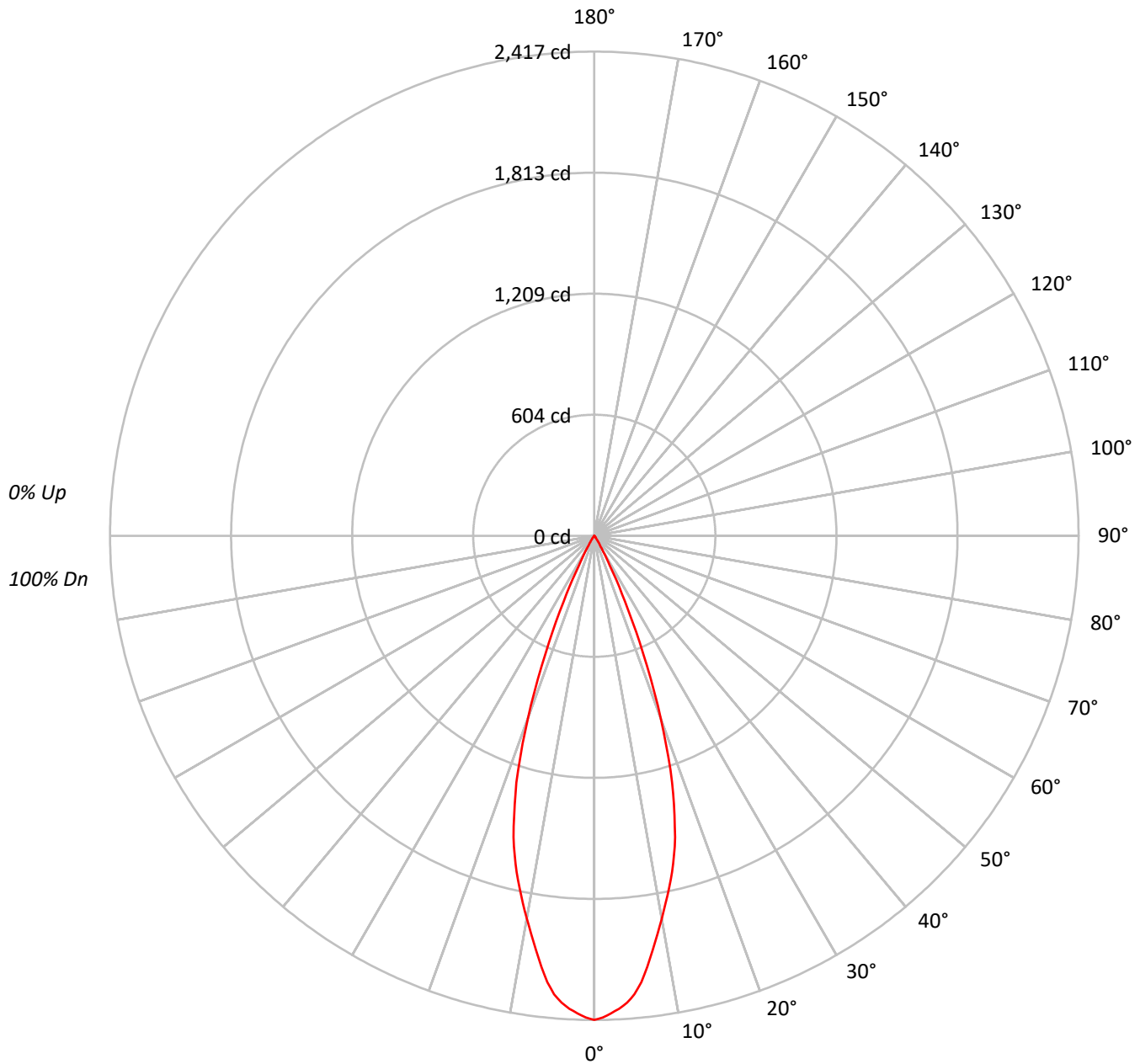
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 115 | 113 | 111 | 109 |  | 112 | 111 | 109 | 107 |  | 107 | 105 | 104 |  | 103 | 102 | 101 |  | 100 | 99  | 98  |
| 2   | 111 | 107 | 104 | 101 |  | 109 | 105 | 103 | 100 |  | 102 | 100 | 98  |  | 99  | 98  | 96  |  | 97  | 95  | 94  |
| 3   | 107 | 102 | 99  | 96  |  | 105 | 101 | 98  | 95  |  | 98  | 96  | 93  |  | 96  | 94  | 92  |  | 94  | 92  | 91  |
| 4   | 104 | 98  | 94  | 91  |  | 102 | 97  | 93  | 90  |  | 95  | 92  | 89  |  | 93  | 90  | 88  |  | 91  | 89  | 87  |
| 5   | 100 | 94  | 90  | 87  |  | 99  | 93  | 89  | 86  |  | 92  | 88  | 85  |  | 90  | 87  | 85  |  | 89  | 86  | 84  |
| 6   | 97  | 90  | 86  | 83  |  | 96  | 90  | 86  | 83  |  | 88  | 85  | 82  |  | 87  | 84  | 82  |  | 86  | 83  | 81  |
| 7   | 94  | 87  | 83  | 80  |  | 93  | 87  | 82  | 79  |  | 85  | 82  | 79  |  | 84  | 81  | 79  |  | 83  | 81  | 78  |
| 8   | 91  | 84  | 80  | 77  |  | 90  | 84  | 79  | 77  |  | 83  | 79  | 76  |  | 82  | 78  | 76  |  | 81  | 78  | 76  |
| 9   | 88  | 81  | 77  | 74  |  | 87  | 81  | 77  | 74  |  | 80  | 76  | 74  |  | 79  | 76  | 73  |  | 79  | 76  | 73  |
| 10  | 86  | 79  | 74  | 72  |  | 85  | 78  | 74  | 71  |  | 78  | 74  | 71  |  | 77  | 74  | 71  |  | 76  | 73  | 71  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 132489 |
| 5°  | 126430 |
| 10° | 108014 |
| 15° | 88434  |
| 20° | 56600  |
| 25° | 21806  |
| 30° | 4469   |
| 35° | 1185   |
| 40° | 372    |
| 45° | 116    |
| 50° | 51     |
| 55° | 29     |
| 60° | 33     |
| 65° | 0      |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 206.9  | 25.2      |
| 10°-20°   | 416.0  | 50.6      |
| 20°-30°   | 182.3  | 22.2      |
| 30°-40°   | 15.2   | 1.9       |
| 40°-50°   | 1.5    | 0.2       |
| 50°-60°   | 0.3    | 0.0       |
| 60°-70°   | 0.1    | 0.0       |
| 70°-80°   | 0.0    | 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°    | 805.2  | 97.9      |
| 0°-40°    | 820.4  | 99.8      |
| 0°-60°    | 822.2  | 100.0     |
| 0°-90°    | 822.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 822.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2417 |      |
| 5°  | 2298 | 207  |
| 15° | 1558 | 416  |
| 25° | 360  | 182  |
| 35° | 18   | 15   |
| 45° | 2    | 2    |
| 55° | 0    | 0    |
| 65° | 0    | 0    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2416.8 |
| 1°    | 2405.1 |
| 2°    | 2386.2 |
| 3°    | 2364.5 |
| 4°    | 2337.0 |
| 5°    | 2297.5 |
| 6°    | 2241.2 |
| 7°    | 2168.5 |
| 8°    | 2088.7 |
| 9°    | 2012.8 |
| 10°   | 1940.4 |
| 11°   | 1867.6 |
| 12°   | 1796.7 |
| 13°   | 1723.0 |
| 14°   | 1644.7 |
| 15°   | 1558.2 |
| 17.5° | 1292.2 |
| 20°   | 970.2  |
| 22.5° | 633.5  |
| 25°   | 360.5  |
| 27.5° | 167.9  |
| 30°   | 70.6   |
| 32.5° | 36.7   |
| 35°   | 17.7   |
| 37.5° | 9.5    |
| 40°   | 5.2    |
| 42.5° | 2.8    |
| 45°   | 1.5    |
| 47.5° | 0.9    |
| 50°   | 0.6    |
| 52.5° | 0.3    |
| 55°   | 0.3    |
| 57.5° | 0.3    |
| 60°   | 0.3    |
| 62.5° | 0.3    |
| 65°   | 0.0    |
| 67.5° | 0.0    |
| 70°   | 0.0    |
| 72.5° | 0.0    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 82.5° | 0.0    |



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CANDELA DISTRIBUTION (continued):

0°  
90° | 0.0



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— 0°-180°







|       |     |
|-------|-----|
| 85°   | 0.0 |
| 87.5° | 0.0 |



(END OF REPORT)