

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: P175517

Luminaire Tested: **LDA6A10935D010TE LAR35FL 6LFC1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P175517  
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: LDA6A10935D010TE LAR35FL 6LFC1  
Description: PORTFOLIO 6" Flat Cone, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 765.9 lumens  
Efficiency: N/A  
Efficacy: 55.3 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

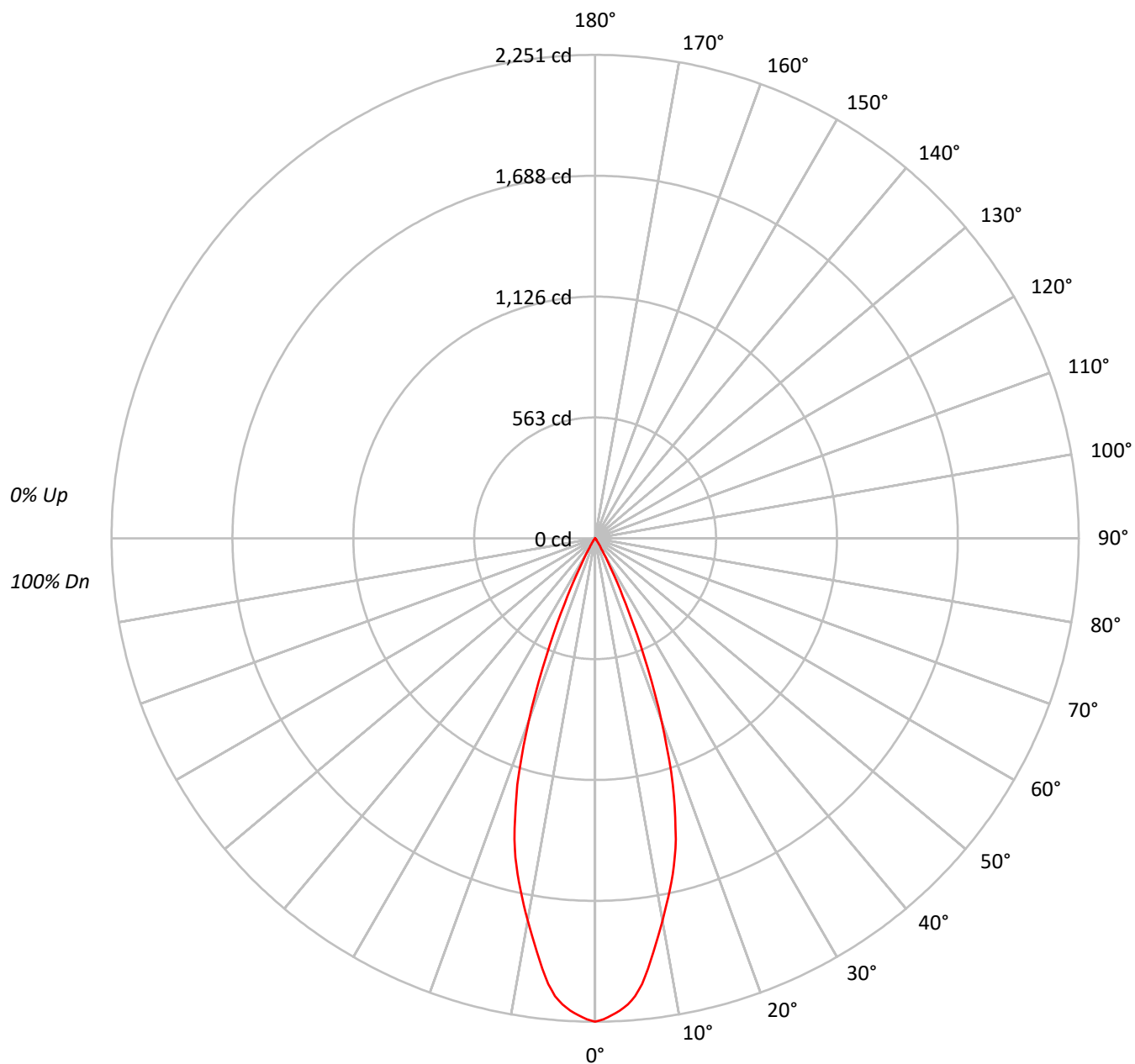
Input Watts (W): 13.84  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 123395 |
| 5°  | 117752 |
| 10° | 100599 |
| 15° | 82361  |
| 20° | 52715  |
| 25° | 20306  |
| 30° | 4165   |
| 35° | 1104   |
| 40° | 344    |
| 45° | 109    |
| 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°    | 192.7  | 25.2      |
| 10°-20°   | 387.4  | 50.6      |
| 20°-30°   | 169.8  | 22.2      |
| 30°-40°   | 14.2   | 1.9       |
| 40°-50°   | 1.4    | 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°    | 749.9  | 97.9      |
| 0°-40°    | 764.1  | 99.8      |
| 0°-60°    | 765.8  | 100.0     |
| 0°-90°    | 765.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 765.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2251 |      |
| 5°  | 2140 | 193  |
| 15° | 1451 | 387  |
| 25° | 336  | 170  |
| 35° | 16   | 14   |
| 45° | 1    | 1    |
| 55° | 0    | 0    |
| 65° | 0    | 0    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2250.9 |
| 1°    | 2240.0 |
| 2°    | 2222.4 |
| 3°    | 2202.2 |
| 4°    | 2176.5 |
| 5°    | 2139.8 |
| 6°    | 2087.4 |
| 7°    | 2019.6 |
| 8°    | 1945.3 |
| 9°    | 1874.7 |
| 10°   | 1807.2 |
| 11°   | 1739.4 |
| 12°   | 1673.3 |
| 13°   | 1604.7 |
| 14°   | 1531.8 |
| 15°   | 1451.2 |
| 17.5° | 1203.5 |
| 20°   | 903.6  |
| 22.5° | 590.1  |
| 25°   | 335.7  |
| 27.5° | 156.3  |
| 30°   | 65.8   |
| 32.5° | 34.2   |
| 35°   | 16.5   |
| 37.5° | 8.8    |
| 40°   | 4.8    |
| 42.5° | 2.6    |
| 45°   | 1.4    |
| 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)