

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: P1212793

Luminaire Tested: **LDA4A25950D010TE LAR35FL 4LA1**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14  
Report Number: P1212793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25630)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA4A25950D010TE LAR35FL 4LA1  
Description: PORTFOLIO 4" Adjustable Reflector, Self-flange Trim Ring, 35° Flood Optic, at 0° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

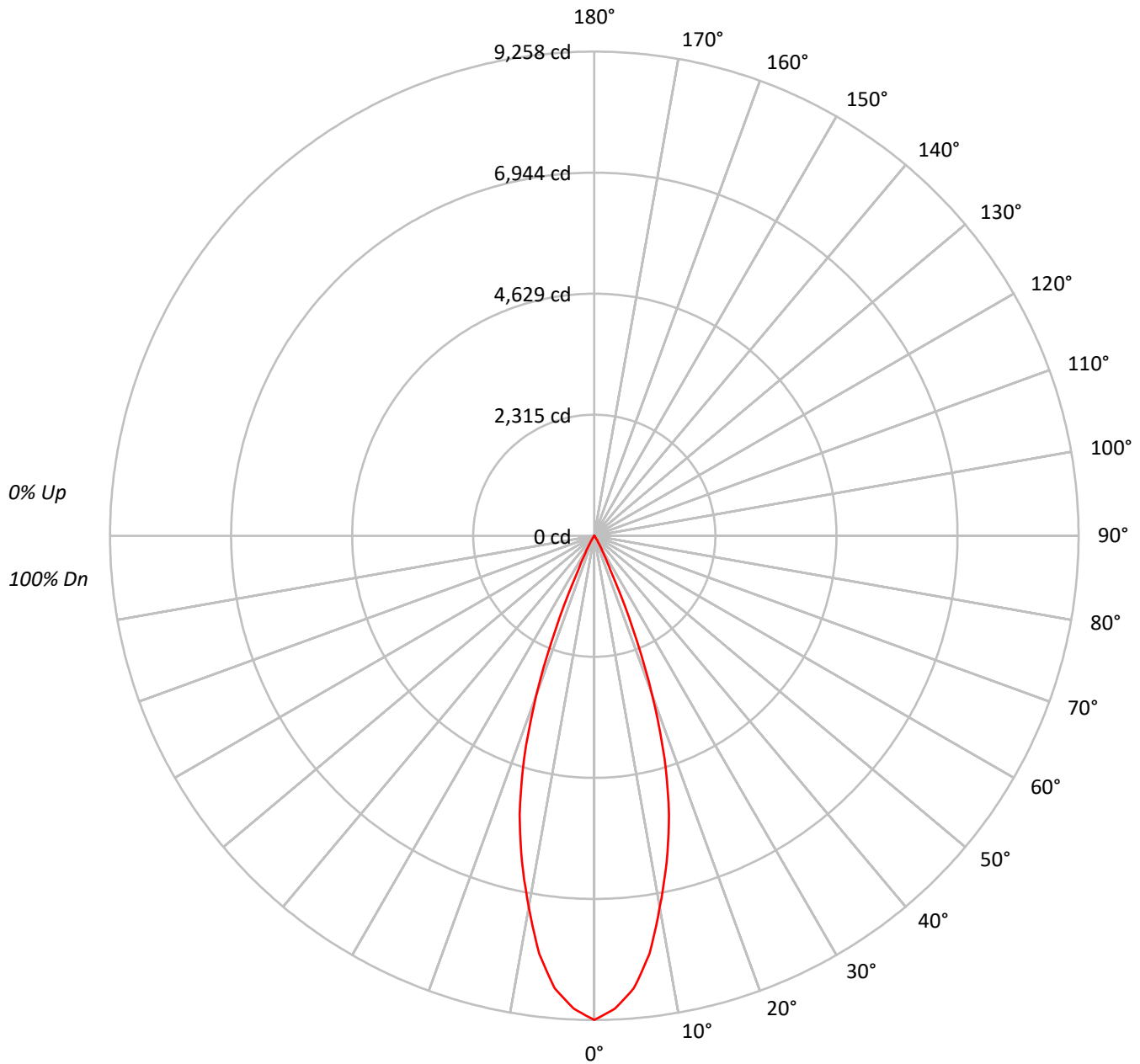
Lumens per Lamp: N/A  
Luminaire Lumens: 2800.5 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.54  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.9  
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 | 113 | 111 | 109 | 107 | 107 | 105 | 104 |  | 103 | 102 | 101 |  | 100 |
| 2   | 111 | 108 | 104 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99  |  | 100 | 98  | 97  |  | 97  |
| 3   | 108 | 103 | 99  | 96  | 106 | 102 | 98  | 96  | 99  | 96  | 94  |  | 97  | 95  | 93  |  | 95  |
| 4   | 104 | 99  | 95  | 92  | 103 | 98  | 94  | 91  | 96  | 93  | 90  |  | 94  | 91  | 89  |  | 92  |
| 5   | 101 | 95  | 91  | 88  | 100 | 94  | 90  | 87  | 93  | 89  | 87  |  | 91  | 88  | 86  |  | 90  |
| 6   | 98  | 92  | 87  | 84  | 97  | 91  | 87  | 84  | 90  | 86  | 84  |  | 88  | 85  | 83  |  | 87  |
| 7   | 95  | 88  | 84  | 81  | 94  | 88  | 84  | 81  | 87  | 83  | 81  |  | 86  | 83  | 80  |  | 85  |
| 8   | 92  | 86  | 81  | 78  | 91  | 85  | 81  | 78  | 84  | 81  | 78  |  | 83  | 80  | 78  |  | 82  |
| 9   | 90  | 83  | 79  | 76  | 89  | 82  | 79  | 76  | 82  | 78  | 76  |  | 81  | 78  | 75  |  | 80  |
| 10  | 87  | 80  | 76  | 74  | 86  | 80  | 76  | 73  | 79  | 76  | 73  |  | 79  | 75  | 73  |  | 78  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1141884 |
| 5°  | 1075163 |
| 10° | 903141  |
| 15° | 704235  |
| 20° | 425130  |
| 25° | 98507   |
| 30° | 25794   |
| 35° | 6113    |
| 40° | 2013    |
| 45° | 541     |
| 50° | 307     |
| 55° | 344     |
| 60° | 395     |
| 65° | 0       |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 782.1  | 27.9      |
| 10°-20°   | 1473.0 | 52.6      |
| 20°-30°   | 504.2  | 18.0      |
| 30°-40°   | 35.9   | 1.3       |
| 40°-50°   | 3.4    | 0.1       |
| 50°-60°   | 1.4    | 0.1       |
| 60°-70°   | 0.6    | 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°    | 2759.2 | 98.5      |
| 0°-40°    | 2795.2 | 99.8      |
| 0°-60°    | 2800.0 | 100.0     |
| 0°-90°    | 2800.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2800.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 9258 |      |
| 5°  | 8684 | 782  |
| 15° | 5515 | 1473 |
| 25° | 724  | 504  |
| 35° | 41   | 36   |
| 45° | 3    | 3    |
| 55° | 2    | 1    |
| 65° | 0    | 1    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 9257.6 |
| 2.5°  | 9050.1 |
| 5°    | 8683.5 |
| 7.5°  | 8062.6 |
| 10°   | 7210.8 |
| 12.5° | 6383.9 |
| 15°   | 5514.9 |
| 17.5° | 4460.2 |
| 20°   | 3238.8 |
| 22.5° | 1934.5 |
| 25°   | 723.8  |
| 27.5° | 352.6  |
| 30°   | 181.1  |
| 32.5° | 81.1   |
| 35°   | 40.6   |
| 37.5° | 21.8   |
| 40°   | 12.5   |
| 42.5° | 6.2    |
| 45°   | 3.1    |
| 47.5° | 1.6    |
| 50°   | 1.6    |
| 52.5° | 1.6    |
| 55°   | 1.6    |
| 57.5° | 1.6    |
| 60°   | 1.6    |
| 62.5° | 1.6    |
| 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    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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## Scaled Data Report



— 0°-180°

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