

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: P1212601

Luminaire Tested: **LDSQA6A50930D010TE LARH40FL 6LSQA1H**

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: P1212601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26677)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA6A50930D010TE LARH40FL 6LSQA1H  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 40° FLOOD  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

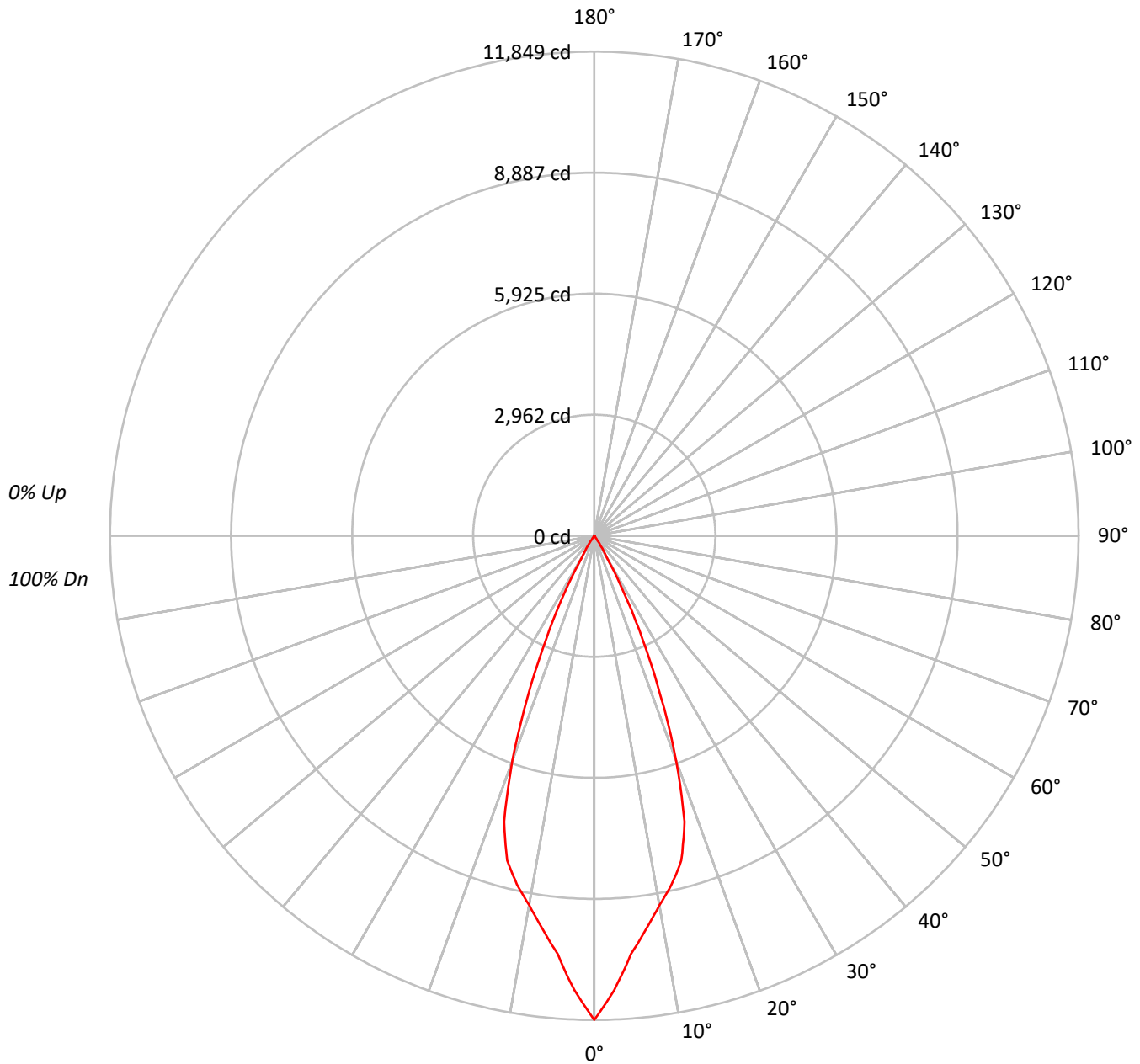
Lumens per Lamp: N/A  
Luminaire Lumens: 4578.0 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.61  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 57.4  
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 | 112 | 110 | 109 | 112 | 110 | 108 | 107 | 106 | 105 | 104 |  | 103 | 101 | 100 |  | 99  |
| 2   | 110 | 107 | 103 | 101 | 108 | 105 | 102 | 100 | 102 | 99  | 97  |  | 99  | 97  | 95  |  | 96  |
| 3   | 107 | 101 | 98  | 94  | 105 | 100 | 97  | 94  | 98  | 95  | 92  |  | 95  | 93  | 91  |  | 93  |
| 4   | 103 | 97  | 93  | 89  | 101 | 96  | 92  | 89  | 94  | 90  | 88  |  | 92  | 89  | 87  |  | 90  |
| 5   | 99  | 93  | 88  | 85  | 98  | 92  | 88  | 84  | 90  | 87  | 84  |  | 89  | 85  | 83  |  | 87  |
| 6   | 96  | 89  | 84  | 81  | 94  | 88  | 84  | 81  | 87  | 83  | 80  |  | 85  | 82  | 80  |  | 84  |
| 7   | 92  | 85  | 81  | 77  | 91  | 85  | 80  | 77  | 84  | 80  | 77  |  | 82  | 79  | 76  |  | 81  |
| 8   | 89  | 82  | 77  | 74  | 88  | 82  | 77  | 74  | 81  | 77  | 74  |  | 80  | 76  | 74  |  | 79  |
| 9   | 86  | 79  | 74  | 71  | 85  | 79  | 74  | 71  | 78  | 74  | 71  |  | 77  | 73  | 71  |  | 76  |
| 10  | 84  | 76  | 72  | 69  | 83  | 76  | 71  | 69  | 75  | 71  | 68  |  | 74  | 71  | 68  |  | 74  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 510149 |
| 5°  | 444130 |
| 10° | 401287 |
| 15° | 366670 |
| 20° | 268499 |
| 25° | 132491 |
| 30° | 29417  |
| 35° | 5960   |
| 40° | 995    |
| 45° | 292    |
| 50° | 54     |
| 55° | 60     |
| 60° | 69     |
| 65° | 82     |
| 70° | 101    |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 952.6  | 20.8      |
| 10°-20°   | 2210.3 | 48.3      |
| 20°-30°   | 1296.5 | 28.3      |
| 30°-40°   | 112.2  | 2.5       |
| 40°-50°   | 4.9    | 0.1       |
| 50°-60°   | 0.7    | 0.0       |
| 60°-70°   | 0.8    | 0.0       |
| 70°-80°   | 0.1    | 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°    | 4459.3 | 97.4      |
| 0°-40°    | 4571.5 | 99.9      |
| 0°-60°    | 4577.1 | 100.0     |
| 0°-90°    | 4578.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4578.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 11849 |      |
| 5°  | 10276 | 953  |
| 15° | 8226  | 2210 |
| 25° | 2789  | 1297 |
| 35° | 113   | 112  |
| 45° | 5     | 5    |
| 55° | 1     | 1    |
| 65° | 1     | 1    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 11848.6 |
| 2.5°  | 11133.9 |
| 5°    | 10276.0 |
| 7.5°  | 9705.3  |
| 10°   | 9178.6  |
| 12.5° | 8740.5  |
| 15°   | 8226.0  |
| 17.5° | 7336.9  |
| 20°   | 5860.0  |
| 22.5° | 4237.6  |
| 25°   | 2788.9  |
| 27.5° | 1571.8  |
| 30°   | 591.7   |
| 32.5° | 305.5   |
| 35°   | 113.4   |
| 37.5° | 34.6    |
| 40°   | 17.7    |
| 42.5° | 9.7     |
| 45°   | 4.8     |
| 47.5° | 2.4     |
| 50°   | 0.8     |
| 52.5° | 0.8     |
| 55°   | 0.8     |
| 57.5° | 0.8     |
| 60°   | 0.8     |
| 62.5° | 0.8     |
| 65°   | 0.8     |
| 67.5° | 0.8     |
| 70°   | 0.8     |
| 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

Peachtree City, GA 30269



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Peachtree City, GA 30269

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## Scaled Data Report



— 0°-180°

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