

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: P208984

Luminaire Tested: **LDSQA6A55927D010TE LARH40FL 6LSQA1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208984  
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: LDSQA6A55927D010TE LARH40FL 6LSQA1H  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 40° FLOOD  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3957.4 lumens  
Efficiency: N/A  
Efficacy: 65.1 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

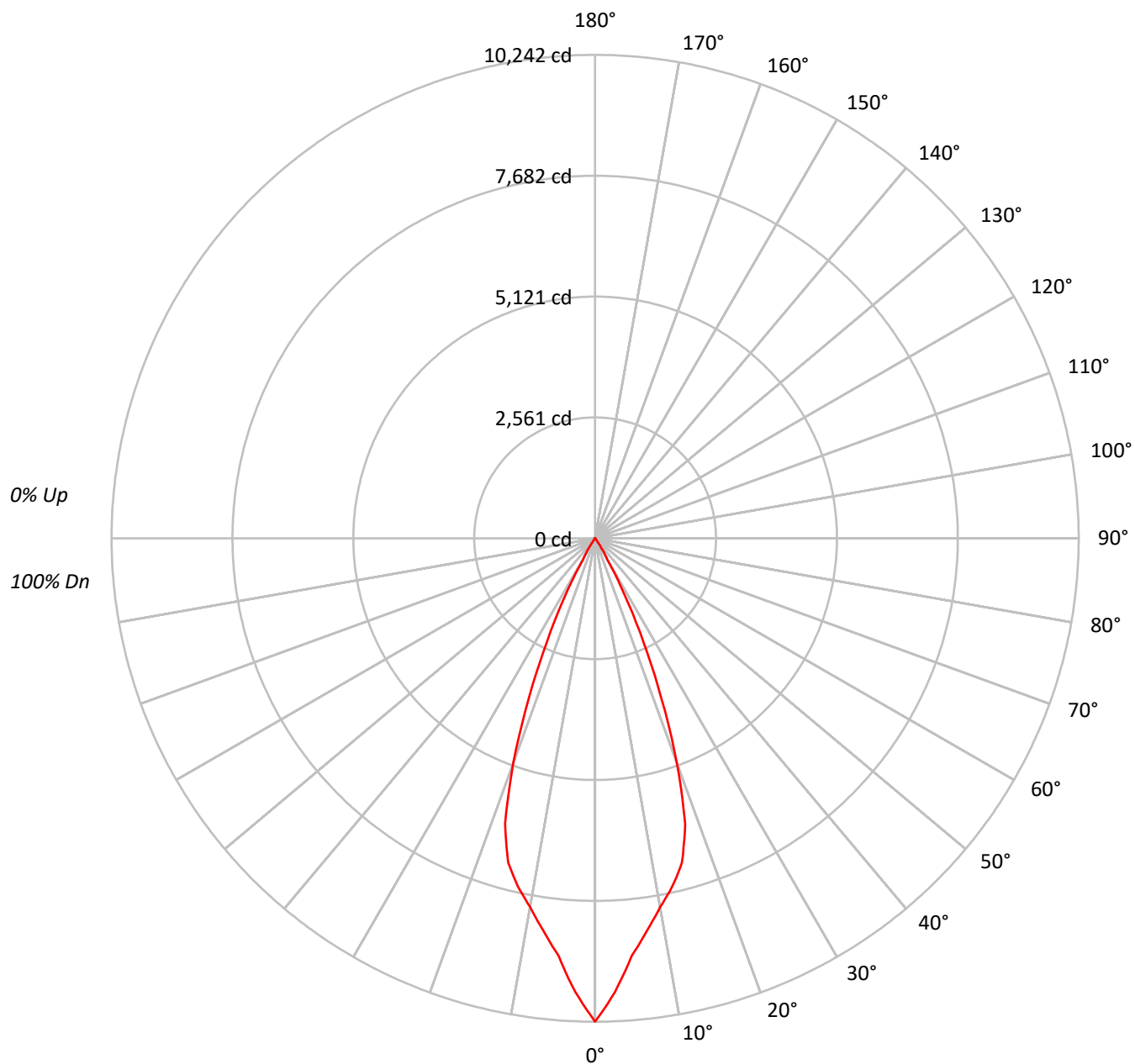
Input Watts (W): 60.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 115 | 112 | 110 | 109 |  | 112 | 110 | 108 | 107 |  | 106 | 105 | 104 |  | 103 | 101 | 100 |  | 99  | 98  | 98  |
| 2   | 110 | 107 | 103 | 101 |  | 108 | 105 | 102 | 100 |  | 102 | 99  | 97  |  | 99  | 97  | 95  |  | 96  | 95  | 93  |
| 3   | 107 | 101 | 98  | 94  |  | 105 | 100 | 97  | 94  |  | 98  | 95  | 92  |  | 95  | 93  | 91  |  | 93  | 91  | 89  |
| 4   | 103 | 97  | 93  | 89  |  | 101 | 96  | 92  | 89  |  | 94  | 90  | 88  |  | 92  | 89  | 87  |  | 90  | 88  | 86  |
| 5   | 99  | 93  | 88  | 85  |  | 98  | 92  | 88  | 84  |  | 90  | 87  | 84  |  | 89  | 85  | 83  |  | 87  | 85  | 82  |
| 6   | 96  | 89  | 84  | 81  |  | 94  | 88  | 84  | 81  |  | 87  | 83  | 80  |  | 85  | 82  | 80  |  | 84  | 81  | 79  |
| 7   | 92  | 85  | 81  | 77  |  | 91  | 85  | 80  | 77  |  | 84  | 80  | 77  |  | 82  | 79  | 76  |  | 81  | 78  | 76  |
| 8   | 89  | 82  | 77  | 74  |  | 88  | 82  | 77  | 74  |  | 81  | 77  | 74  |  | 80  | 76  | 74  |  | 79  | 76  | 73  |
| 9   | 86  | 79  | 74  | 71  |  | 85  | 79  | 74  | 71  |  | 78  | 74  | 71  |  | 77  | 73  | 71  |  | 76  | 73  | 71  |
| 10  | 84  | 76  | 72  | 69  |  | 83  | 76  | 71  | 69  |  | 75  | 71  | 68  |  | 74  | 71  | 68  |  | 74  | 70  | 68  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 440993 |
| 5°  | 383924 |
| 10° | 346891 |
| 15° | 316965 |
| 20° | 232100 |
| 25° | 114529 |
| 30° | 25430  |
| 35° | 5151   |
| 40° | 860    |
| 45° | 256    |
| 50° | 47     |
| 55° | 53     |
| 60° | 60     |
| 65° | 71     |
| 70° | 88     |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 823.4  | 20.8      |
| 10°-20°   | 1910.6 | 48.3      |
| 20°-30°   | 1120.7 | 28.3      |
| 30°-40°   | 97.0   | 2.5       |
| 40°-50°   | 4.2    | 0.1       |
| 50°-60°   | 0.6    | 0.0       |
| 60°-70°   | 0.7    | 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°    | 3854.8 | 97.4      |
| 0°-40°    | 3951.8 | 99.9      |
| 0°-60°    | 3956.6 | 100.0     |
| 0°-90°    | 3957.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3957.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 10242 |      |
| 5°  | 8883  | 823  |
| 15° | 7111  | 1911 |
| 25° | 2411  | 1121 |
| 35° | 98    | 97   |
| 45° | 4     | 4    |
| 55° | 1     | 1    |
| 65° | 1     | 1    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 10242.4 |
| 2.5°  | 9624.5  |
| 5°    | 8883.0  |
| 7.5°  | 8389.6  |
| 10°   | 7934.4  |
| 12.5° | 7555.6  |
| 15°   | 7110.9  |
| 17.5° | 6342.2  |
| 20°   | 5065.6  |
| 22.5° | 3663.1  |
| 25°   | 2410.8  |
| 27.5° | 1358.7  |
| 30°   | 511.5   |
| 32.5° | 264.1   |
| 35°   | 98.0    |
| 37.5° | 29.9    |
| 40°   | 15.3    |
| 42.5° | 8.3     |
| 45°   | 4.2     |
| 47.5° | 2.1     |
| 50°   | 0.7     |
| 52.5° | 0.7     |
| 55°   | 0.7     |
| 57.5° | 0.7     |
| 60°   | 0.7     |
| 62.5° | 0.7     |
| 65°   | 0.7     |
| 67.5° | 0.7     |
| 70°   | 0.7     |
| 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     |



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— 0°-180°







(END OF REPORT)