

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: P208960

Luminaire Tested: **LDSQA6A65927D010TE LARH30NF 6LSQA1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P208960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26623)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDSQA6A65927D010TE LARH30NF 6LSQA1H  
Description: PORTFOLIO 6" SQUARE ADJUSTABLE REFLECTOR, ANGLE-CUT TRIM,  
SELF-FLANGED, 30° NARROW FLOOD  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4518.9 lumens  
Efficiency: N/A  
Efficacy: 57.4 lumens/watt  
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.55  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

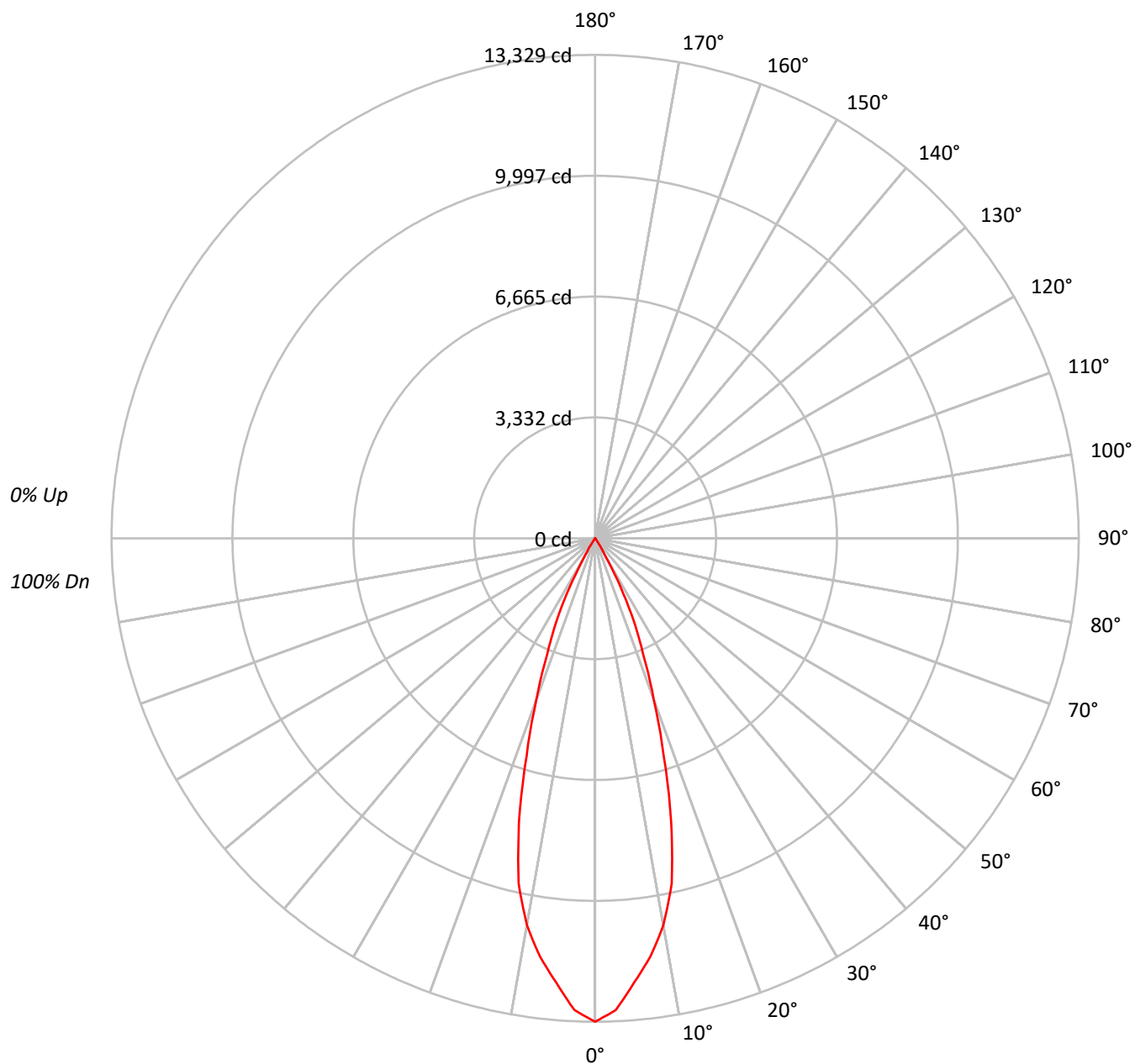
Input Watts (W): 78.67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |   |
| 1   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |  |  |   |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 102 | 100 | 98  | 99  | 98  | 96  | 97  | 95  | 94  | 92  |  |  |   |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 95  | 98  | 95  | 93  | 96  | 94  | 92  | 94  | 92  | 90  | 89  |  |  |   |
| 4   | 103 | 98  | 94  | 90  | 102 | 97  | 93  | 90  | 95  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 86  |  |  |   |
| 5   | 100 | 94  | 89  | 86  | 99  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 87  | 84  | 88  | 86  | 84  | 83  |  |  |   |
| 6   | 97  | 90  | 86  | 82  | 95  | 89  | 85  | 82  | 88  | 84  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 80  |  |  |   |
| 7   | 94  | 87  | 82  | 79  | 93  | 86  | 82  | 79  | 85  | 81  | 79  | 84  | 81  | 78  | 83  | 80  | 78  | 77  |  |  |   |
| 8   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 74  |  |  |   |
| 9   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  | 72  |  |  |   |
| 10  | 85  | 78  | 74  | 71  | 84  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 70  | 76  | 73  | 70  | 69  |  |  |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 573893 |
| 5°  | 531569 |
| 10° | 473547 |
| 15° | 361357 |
| 20° | 216641 |
| 25° | 119394 |
| 30° | 29537  |
| 35° | 2281   |
| 40° | 646    |
| 45° | 250    |
| 50° | 107    |
| 55° | 120    |
| 60° | 138    |
| 65° | 82     |
| 70° | 101    |
| 75° | 133    |
| 80° | 198    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1131.5 | 25.0      |
| 10°-20°   | 2169.2 | 48.0      |
| 20°-30°   | 1120.2 | 24.8      |
| 30°-40°   | 90.8   | 2.0       |
| 40°-50°   | 3.7    | 0.1       |
| 50°-60°   | 1.4    | 0.0       |
| 60°-70°   | 1.1    | 0.0       |
| 70°-80°   | 0.8    | 0.0       |
| 80°-90°   | 0.1    | 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°    | 4421.0 | 97.8      |
| 0°-40°    | 4511.7 | 99.8      |
| 0°-60°    | 4516.9 | 100.0     |
| 0°-90°    | 4518.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4518.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 13329 |      |
| 5°  | 12299 | ###  |
| 15° | 8107  | 2169 |
| 25° | 2513  | 1120 |
| 35° | 43    | 91   |
| 45° | 4     | 4    |
| 55° | 2     | 1    |
| 65° | 1     | 1    |
| 75° | 1     | 1    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 13329.1 |
| 2.5°  | 13025.1 |
| 5°    | 12299.1 |
| 7.5°  | 11637.8 |
| 10°   | 10831.4 |
| 12.5° | 9747.3  |
| 15°   | 8106.8  |
| 17.5° | 6285.2  |
| 20°   | 4728.2  |
| 22.5° | 3466.3  |
| 25°   | 2513.2  |
| 27.5° | 1513.5  |
| 30°   | 594.1   |
| 32.5° | 252.4   |
| 35°   | 43.4    |
| 37.5° | 21.3    |
| 40°   | 11.5    |
| 42.5° | 6.6     |
| 45°   | 4.1     |
| 47.5° | 2.5     |
| 50°   | 1.6     |
| 52.5° | 1.6     |
| 55°   | 1.6     |
| 57.5° | 1.6     |
| 60°   | 1.6     |
| 62.5° | 1.6     |
| 65°   | 0.8     |
| 67.5° | 0.8     |
| 70°   | 0.8     |
| 72.5° | 0.8     |
| 75°   | 0.8     |
| 77.5° | 0.8     |
| 80°   | 0.8     |
| 82.5° | 0.0     |
| 85°   | 0.0     |
| 87.5° | 0.0     |
| 90°   | 0.0     |



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— 0°-180°







(END OF REPORT)