

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: P224832

Luminaire Tested: **LSR2B15FL408040D010 2LBDL\*B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B15FL408040D010 2LBDL\*B  
Description: 1500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1339.8 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

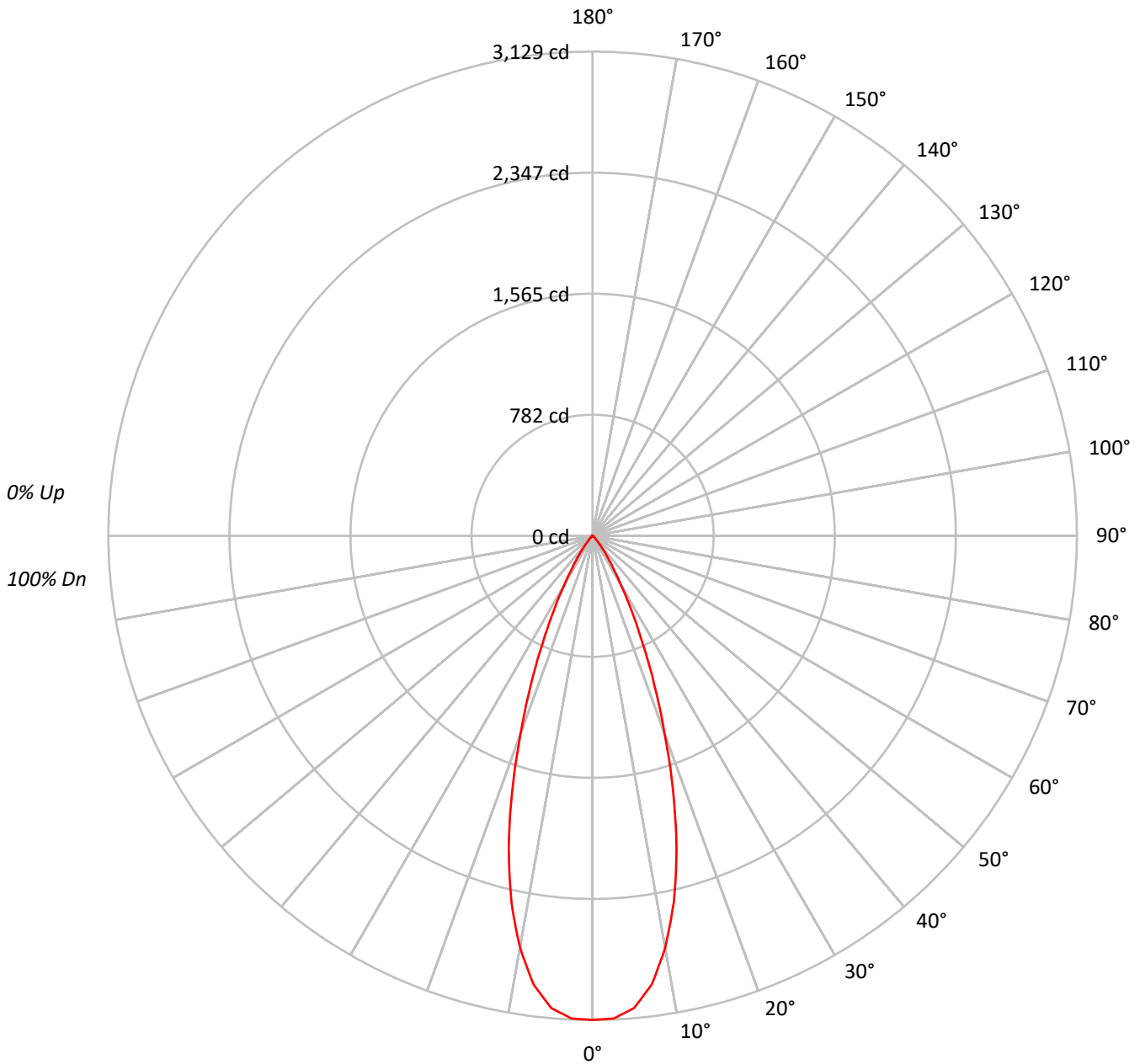
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 95  | 95  | 95  | 95  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 91  | 91  | 91  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 97  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 87  | 87  | 87  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 83  | 83  | 83  | 83  |
| 5   | 98  | 91  | 86  | 83  | 96  | 90  | 86  | 82  | 88  | 85  | 82  | 87  | 84  | 81  | 85  | 83  | 80  | 79  | 79  | 79  | 79  |
| 6   | 94  | 87  | 82  | 79  | 93  | 86  | 82  | 78  | 85  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 77  | 76  | 76  | 76  | 76  |
| 7   | 91  | 83  | 78  | 75  | 90  | 83  | 78  | 75  | 81  | 77  | 74  | 80  | 77  | 74  | 79  | 76  | 74  | 72  | 72  | 72  | 72  |
| 8   | 87  | 80  | 75  | 72  | 86  | 79  | 75  | 71  | 78  | 74  | 71  | 77  | 74  | 71  | 76  | 73  | 71  | 69  | 69  | 69  | 69  |
| 9   | 84  | 77  | 72  | 69  | 83  | 76  | 72  | 68  | 75  | 71  | 68  | 74  | 71  | 68  | 74  | 70  | 68  | 67  | 67  | 67  | 67  |
| 10  | 82  | 74  | 69  | 66  | 81  | 73  | 69  | 66  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 68  | 65  | 64  | 64  | 64  | 64  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1212161 |
| 5°  | 1191089 |
| 10° | 1062558 |
| 15° | 839876  |
| 20° | 560022  |
| 25° | 324901  |
| 30° | 162627  |
| 35° | 76509   |
| 40° | 29884   |
| 45° | 13366   |
| 50° | 6267    |
| 55° | 3512    |
| 60° | 1317    |
| 65° | 0       |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 280.8  | 21.0      |
| 10°-20°   | 566.9  | 42.3      |
| 20°-30°   | 356.6  | 26.6      |
| 30°-40°   | 109.0  | 8.1       |
| 40°-50°   | 21.4   | 1.6       |
| 50°-60°   | 4.8    | 0.4       |
| 60°-70°   | 0.2    | 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°    | 1204.3 | 89.9      |
| 0°-40°    | 1313.3 | 98.0      |
| 0°-60°    | 1339.5 | 100.0     |
| 0°-90°    | 1339.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1339.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3129 |      |
| 5°  | 3063 | 281  |
| 15° | 2094 | 567  |
| 25° | 760  | 357  |
| 35° | 162  | 109  |
| 45° | 24   | 21   |
| 55° | 5    | 5    |
| 65° | 0    | 0    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3129.4 |
| 2.5°  | 3122.4 |
| 5°    | 3063.3 |
| 7.5°  | 2924.1 |
| 10°   | 2701.5 |
| 12.5° | 2423.1 |
| 15°   | 2094.4 |
| 17.5° | 1729.1 |
| 20°   | 1358.6 |
| 22.5° | 1042.0 |
| 25°   | 760.2  |
| 27.5° | 535.8  |
| 30°   | 363.6  |
| 32.5° | 245.3  |
| 35°   | 161.8  |
| 37.5° | 99.2   |
| 40°   | 59.1   |
| 42.5° | 38.3   |
| 45°   | 24.4   |
| 47.5° | 15.7   |
| 50°   | 10.4   |
| 52.5° | 7.0    |
| 55°   | 5.2    |
| 57.5° | 3.5    |
| 60°   | 1.7    |
| 62.5° | 0.0    |
| 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    |



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— 0°-180°







(END OF REPORT)