

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: P224735

Luminaire Tested: **LSSQWM2B15FL409035D010 2LBD\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQWM2B15FL409035D010 2LBD\*MW  
Description: 1500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
SPUN ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1149.3 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

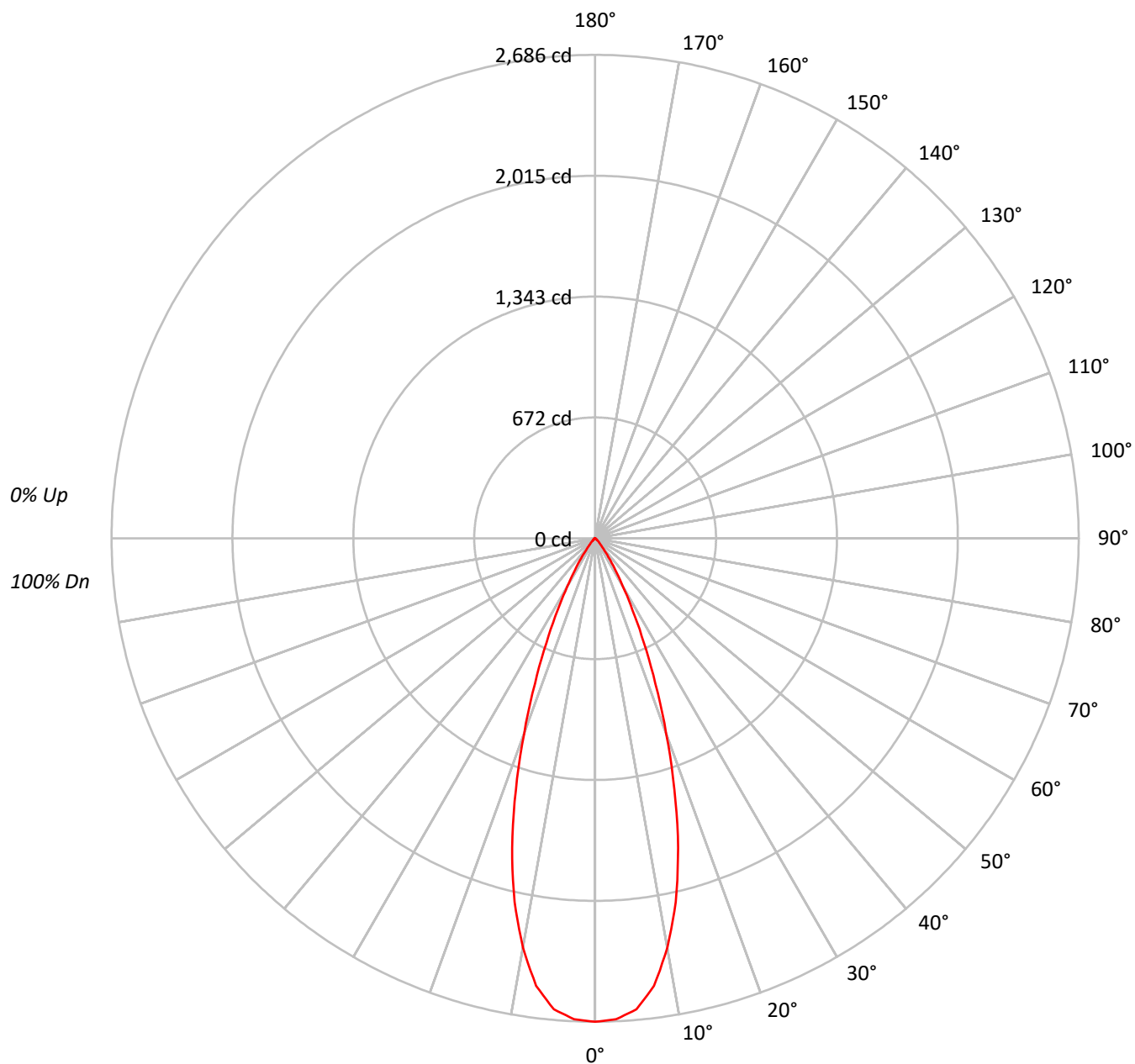
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 114 | 112 | 110 | 108 |  | 112 | 110 | 108 | 106 |  | 106 | 104 | 103 |  |  | 102 | 101 | 100 |  |  | 99  |
| 2   | 110 | 106 | 102 | 99  |  | 108 | 104 | 101 | 98  |  | 101 | 98  | 96  |  |  | 98  | 96  | 94  |  |  | 95  |
| 3   | 105 | 100 | 96  | 93  |  | 104 | 99  | 95  | 92  |  | 96  | 93  | 90  |  |  | 94  | 91  | 89  |  |  | 92  |
| 4   | 101 | 95  | 90  | 87  |  | 100 | 94  | 90  | 86  |  | 92  | 88  | 85  |  |  | 90  | 87  | 85  |  |  | 88  |
| 5   | 98  | 91  | 86  | 82  |  | 96  | 90  | 85  | 82  |  | 88  | 84  | 81  |  |  | 86  | 83  | 80  |  |  | 85  |
| 6   | 94  | 86  | 82  | 78  |  | 93  | 86  | 81  | 78  |  | 84  | 80  | 77  |  |  | 83  | 79  | 77  |  |  | 82  |
| 7   | 90  | 83  | 78  | 74  |  | 89  | 82  | 77  | 74  |  | 81  | 77  | 74  |  |  | 80  | 76  | 73  |  |  | 79  |
| 8   | 87  | 79  | 74  | 71  |  | 86  | 79  | 74  | 71  |  | 78  | 74  | 71  |  |  | 77  | 73  | 70  |  |  | 76  |
| 9   | 84  | 76  | 71  | 68  |  | 83  | 76  | 71  | 68  |  | 75  | 71  | 68  |  |  | 74  | 70  | 67  |  |  | 73  |
| 10  | 81  | 73  | 68  | 65  |  | 80  | 73  | 68  | 65  |  | 72  | 68  | 65  |  |  | 71  | 68  | 65  |  |  | 71  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1040489 |
| 5°  | 1021523 |
| 10° | 908061  |
| 15° | 714159  |
| 20° | 475231  |
| 25° | 272845  |
| 30° | 137803  |
| 35° | 64829   |
| 40° | 26091   |
| 45° | 12928   |
| 50° | 7111    |
| 55° | 4997    |
| 60° | 4571    |
| 65° | 2658    |
| 70° | 3284    |
| 75° | 2245    |
| 80° | 3346    |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 240.6  | 20.9      |
| 10°-20°   | 482.4  | 42.0      |
| 20°-30°   | 300.1  | 26.1      |
| 30°-40°   | 92.3   | 8.0       |
| 40°-50°   | 20.3   | 1.8       |
| 50°-60°   | 7.2    | 0.6       |
| 60°-70°   | 3.6    | 0.3       |
| 70°-80°   | 2.1    | 0.2       |
| 80°-90°   | 0.6    | 0.1       |
| 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°    | 1023.2 | 89.0      |
| 0°-40°    | 1115.4 | 97.1      |
| 0°-60°    | 1142.9 | 99.4      |
| 0°-90°    | 1149.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1149.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2686 |      |
| 5°  | 2627 | 241  |
| 15° | 1781 | 482  |
| 25° | 638  | 300  |
| 35° | 137  | 92   |
| 45° | 24   | 20   |
| 55° | 7    | 7    |
| 65° | 3    | 4    |
| 75° | 2    | 2    |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2686.2 |
| 2.5°  | 2674.4 |
| 5°    | 2627.2 |
| 7.5°  | 2507.8 |
| 10°   | 2308.7 |
| 12.5° | 2069.9 |
| 15°   | 1780.9 |
| 17.5° | 1465.4 |
| 20°   | 1152.9 |
| 22.5° | 874.3  |
| 25°   | 638.4  |
| 27.5° | 449.7  |
| 30°   | 308.1  |
| 32.5° | 207.9  |
| 35°   | 137.1  |
| 37.5° | 82.6   |
| 40°   | 51.6   |
| 42.5° | 35.4   |
| 45°   | 23.6   |
| 47.5° | 16.2   |
| 50°   | 11.8   |
| 52.5° | 10.3   |
| 55°   | 7.4    |
| 57.5° | 5.9    |
| 60°   | 5.9    |
| 62.5° | 4.4    |
| 65°   | 2.9    |
| 67.5° | 2.9    |
| 70°   | 2.9    |
| 72.5° | 2.9    |
| 75°   | 1.5    |
| 77.5° | 1.5    |
| 80°   | 1.5    |
| 82.5° | 1.5    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)