

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: P222326

Luminaire Tested: **LSSQ2B15NFL259727D010 2LBDLC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P222326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQ2B15NFL259727D010 2LBDLC\*MB  
Description: 1500 Lumen, 2inch Portfolio LED Cylinder  
NARROW FLOOD OPTIC  
LENSED CAST ROUND TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 883.6 lumens  
Efficiency: N/A  
Efficacy: 61.8 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

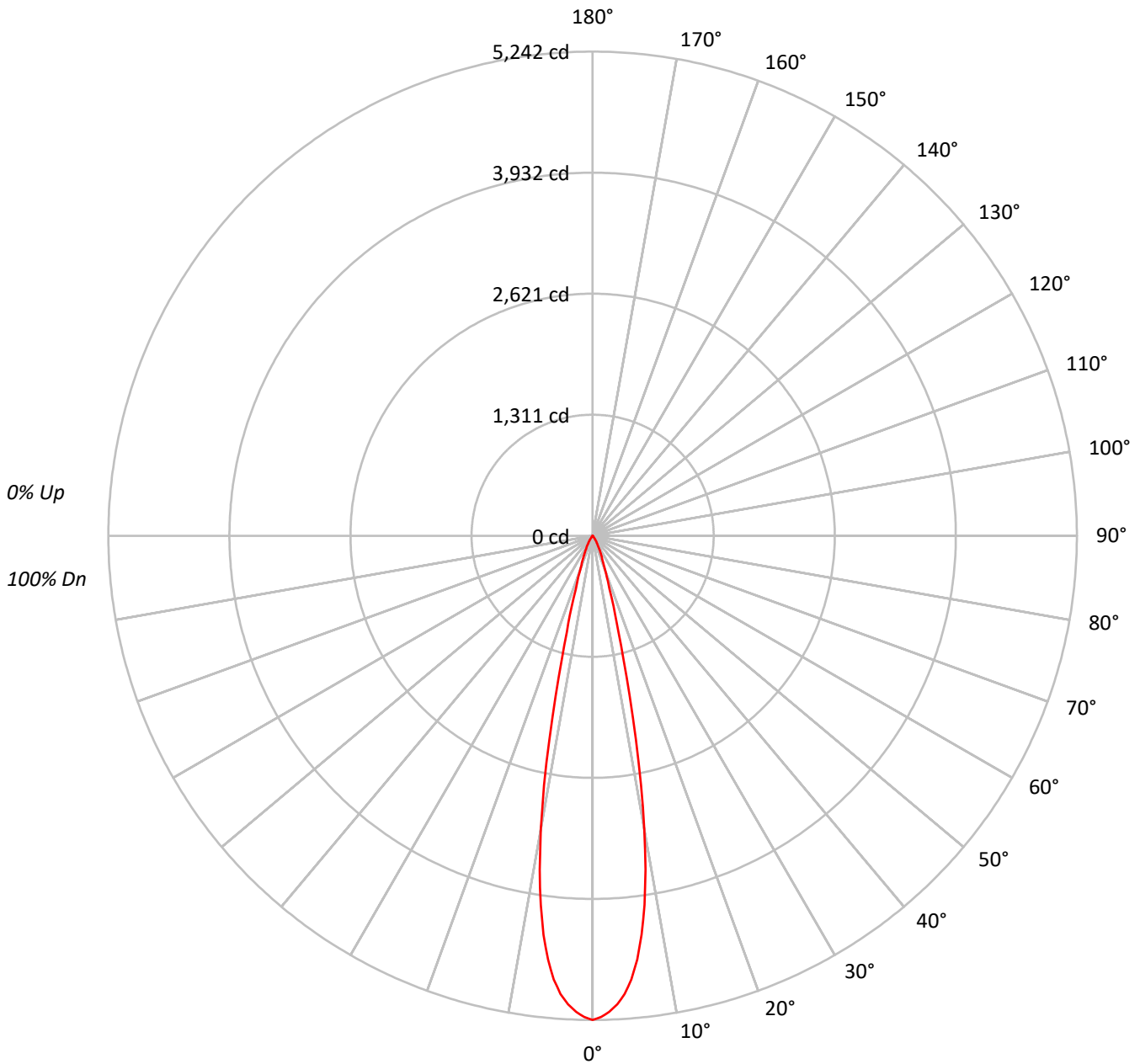
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 115 | 113 | 112 | 110 | 113 | 111 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 102 | 100 | 100 | 99  | 97  | 97  | 97  | 97  |
| 2   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 104 | 102 | 100 | 101 | 99  | 98  | 98  | 97  | 96  | 95  | 95  | 95  | 95  |
| 3   | 109 | 105 | 101 | 99  | 107 | 103 | 100 | 98  | 101 | 98  | 96  | 99  | 97  | 95  | 96  | 95  | 93  | 92  | 92  | 92  | 92  |
| 4   | 106 | 101 | 97  | 95  | 104 | 100 | 97  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 91  | 90  | 90  | 90  | 90  |
| 5   | 103 | 98  | 94  | 91  | 102 | 97  | 94  | 91  | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 90  | 89  | 88  | 88  | 88  | 88  |
| 6   | 101 | 95  | 91  | 89  | 99  | 94  | 91  | 88  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 88  | 87  | 86  | 86  | 86  | 86  |
| 7   | 98  | 92  | 89  | 86  | 97  | 92  | 88  | 86  | 91  | 88  | 85  | 90  | 87  | 85  | 89  | 86  | 85  | 84  | 84  | 84  | 84  |
| 8   | 96  | 90  | 86  | 84  | 95  | 90  | 86  | 84  | 89  | 86  | 83  | 88  | 85  | 83  | 87  | 85  | 83  | 82  | 82  | 82  | 82  |
| 9   | 94  | 88  | 84  | 82  | 93  | 88  | 84  | 82  | 87  | 84  | 82  | 86  | 83  | 81  | 85  | 83  | 81  | 80  | 80  | 80  | 80  |
| 10  | 92  | 86  | 82  | 80  | 91  | 86  | 82  | 80  | 85  | 82  | 80  | 84  | 82  | 80  | 84  | 81  | 79  | 79  | 79  | 79  | 79  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 2030506 |
| 5°  | 1874800 |
| 10° | 1269012 |
| 15° | 431727  |
| 20° | 158575  |
| 25° | 84067   |
| 30° | 43206   |
| 35° | 20144   |
| 40° | 6624    |
| 45° | 3342    |
| 50° | 1567    |
| 55° | 608     |
| 60° | 697     |
| 65° | 0       |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 410.2  | 46.4      |
| 10°-20°   | 344.9  | 39.0      |
| 20°-30°   | 94.6   | 10.7      |
| 30°-40°   | 27.6   | 3.1       |
| 40°-50°   | 5.1    | 0.6       |
| 50°-60°   | 1.2    | 0.1       |
| 60°-70°   | 0.1    | 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°    | 849.7  | 96.2      |
| 0°-40°    | 877.2  | 99.3      |
| 0°-60°    | 883.5  | 100.0     |
| 0°-90°    | 883.6  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 883.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5242 |      |
| 5°  | 4822 | 410  |
| 15° | 1077 | 345  |
| 25° | 197  | 95   |
| 35° | 43   | 28   |
| 45° | 6    | 5    |
| 55° | 1    | 1    |
| 65° | 0    | 0    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 5242.1 |
| 1°    | 5211.6 |
| 2°    | 5157.6 |
| 3°    | 5080.2 |
| 4°    | 4974.0 |
| 5°    | 4821.7 |
| 6°    | 4613.7 |
| 7°    | 4353.4 |
| 8°    | 4035.8 |
| 9°    | 3660.7 |
| 10°   | 3226.4 |
| 11°   | 2750.3 |
| 12°   | 2255.1 |
| 13°   | 1782.5 |
| 14°   | 1379.5 |
| 15°   | 1076.6 |
| 17.5° | 607.5  |
| 20°   | 384.7  |
| 22.5° | 274.2  |
| 25°   | 196.7  |
| 27.5° | 139.3  |
| 30°   | 96.6   |
| 32.5° | 67.9   |
| 35°   | 42.6   |
| 37.5° | 17.4   |
| 40°   | 13.1   |
| 42.5° | 9.6    |
| 45°   | 6.1    |
| 47.5° | 3.5    |
| 50°   | 2.6    |
| 52.5° | 1.7    |
| 55°   | 0.9    |
| 57.5° | 0.9    |
| 60°   | 0.9    |
| 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    |



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







|       |  |     |
|-------|--|-----|
| 85°   |  | 0.0 |
| 87.5° |  | 0.0 |



(END OF REPORT)