

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: P#

Luminaire Tested: **LSSQWM2B05WFL558035D010 2LBD\*LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29153)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQWM2B05WFL558035D010 2LBD\*LI  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
WIDE FLOOD OPTIC  
SPUN ROUND TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 738.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.8  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

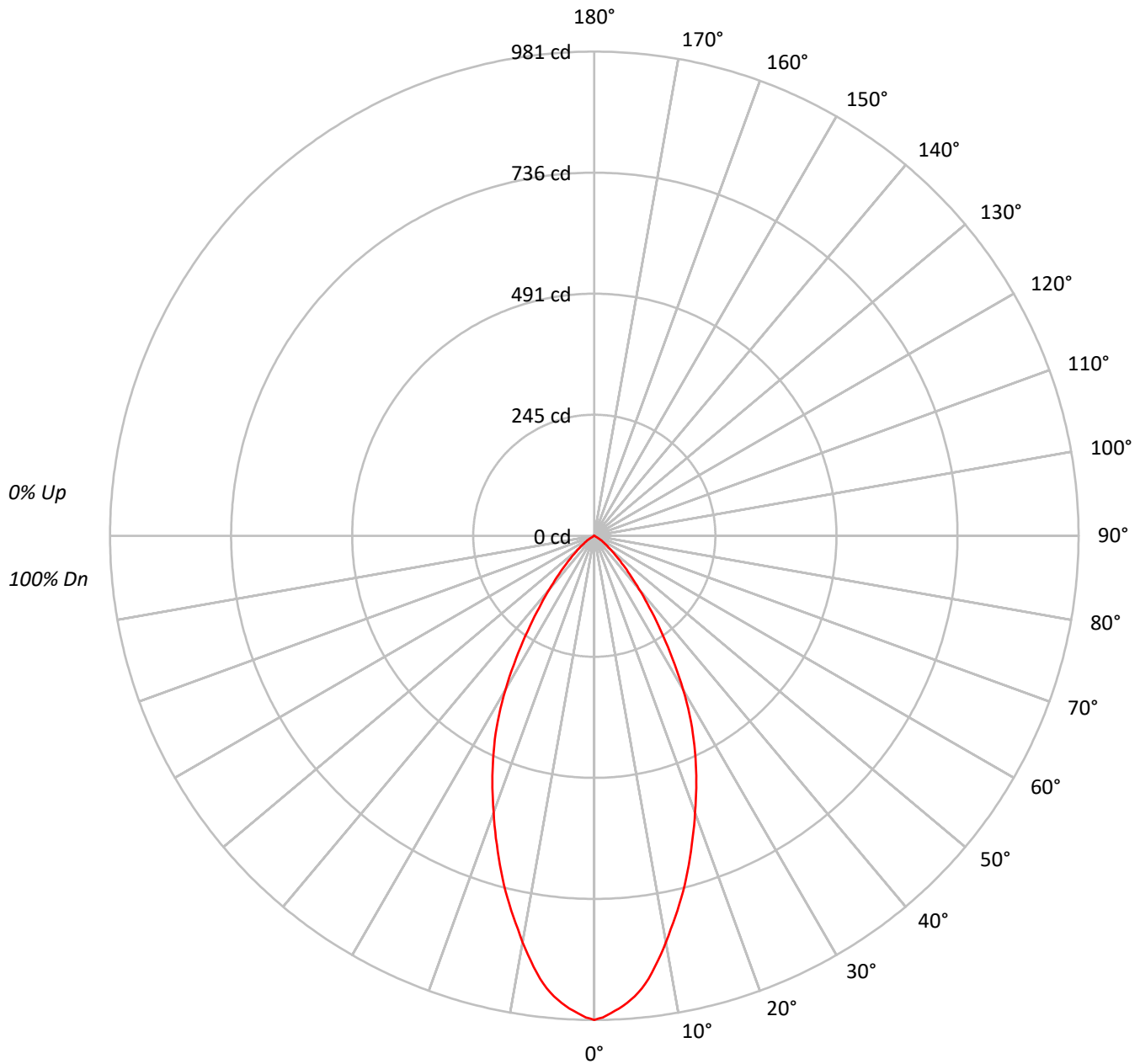
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 104 | 103 | 101 |  | 101 | 99  | 98  |  | 97  |
| 2   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 98  | 95  | 92  |  | 95  | 92  | 90  |  | 92  |
| 3   | 102 | 96  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  |  | 89  | 86  | 83  |  | 87  |
| 4   | 97  | 89  | 84  | 79  | 95  | 88  | 83  | 79  | 86  | 81  | 78  |  | 84  | 80  | 77  |  | 82  |
| 5   | 92  | 83  | 78  | 73  | 90  | 83  | 77  | 73  | 81  | 76  | 72  |  | 79  | 75  | 72  |  | 77  |
| 6   | 87  | 78  | 72  | 68  | 86  | 77  | 72  | 68  | 76  | 71  | 67  |  | 74  | 70  | 67  |  | 73  |
| 7   | 83  | 73  | 67  | 63  | 82  | 73  | 67  | 63  | 72  | 66  | 63  |  | 70  | 66  | 62  |  | 69  |
| 8   | 79  | 69  | 63  | 59  | 78  | 69  | 63  | 59  | 68  | 62  | 59  |  | 66  | 62  | 58  |  | 66  |
| 9   | 75  | 65  | 59  | 55  | 74  | 65  | 59  | 55  | 64  | 59  | 55  |  | 63  | 58  | 55  |  | 62  |
| 10  | 72  | 62  | 56  | 52  | 71  | 61  | 56  | 52  | 61  | 55  | 52  |  | 60  | 55  | 52  |  | 59  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 380025 |
| 5°  | 364291 |
| 10° | 328974 |
| 15° | 288246 |
| 20° | 245921 |
| 25° | 206301 |
| 30° | 160927 |
| 35° | 110933 |
| 40° | 71245  |
| 45° | 43111  |
| 50° | 25309  |
| 55° | 14182  |
| 60° | 4028   |
| 65° | 0      |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.2   | 11.7      |
| 10°-20°   | 199.8  | 27.1      |
| 20°-30°   | 219.5  | 29.7      |
| 30°-40°   | 148.6  | 20.1      |
| 40°-50°   | 63.7   | 8.6       |
| 50°-60°   | 19.5   | 2.6       |
| 60°-70°   | 0.8    | 0.1       |
| 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°    | 505.5  | 68.5      |
| 0°-40°    | 654.1  | 88.6      |
| 0°-60°    | 737.2  | 99.9      |
| 0°-90°    | 738.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 738.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 981 |      |
| 5°  | 937 | 86   |
| 15° | 719 | 200  |
| 25° | 483 | 220  |
| 35° | 235 | 149  |
| 45° | 79  | 64   |
| 55° | 21  | 19   |
| 65° | 0   | 1    |
| 75° | 0   | 0    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 981.1 |
| 1°    | 975.9 |
| 2°    | 967.6 |
| 3°    | 959.4 |
| 4°    | 948.9 |
| 5°    | 936.9 |
| 6°    | 921.9 |
| 7°    | 903.9 |
| 8°    | 882.2 |
| 9°    | 859.7 |
| 10°   | 836.4 |
| 11°   | 811.7 |
| 12°   | 789.2 |
| 13°   | 766.0 |
| 14°   | 742.8 |
| 15°   | 718.8 |
| 17.5° | 656.6 |
| 20°   | 596.6 |
| 22.5° | 539.6 |
| 25°   | 482.7 |
| 27.5° | 424.2 |
| 30°   | 359.8 |
| 32.5° | 294.6 |
| 35°   | 234.6 |
| 37.5° | 183.6 |
| 40°   | 140.9 |
| 42.5° | 106.4 |
| 45°   | 78.7  |
| 47.5° | 57.7  |
| 50°   | 42.0  |
| 52.5° | 30.0  |
| 55°   | 21.0  |
| 57.5° | 13.5  |
| 60°   | 5.2   |
| 62.5° | 0.7   |
| 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)