

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: P225480

Luminaire Tested: **LSRWM2B05FL409727D010 2LBDL\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14832)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSRWM2B05FL409727D010 2LBDL\*H  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 500.0 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

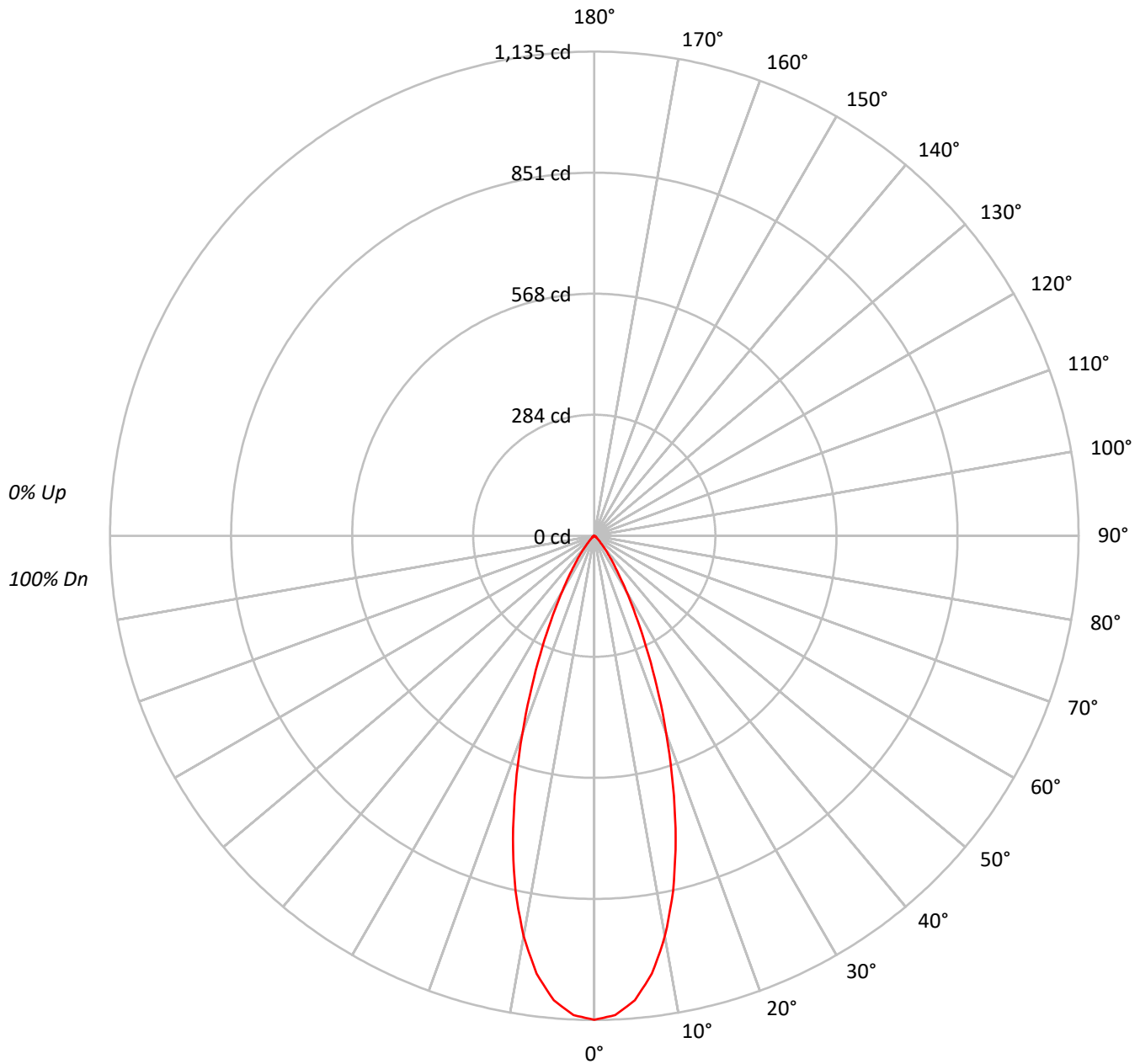
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 |  | 106 | 104 | 103 |  |  | 102 | 101 | 100 |  |  | 99  |
| 2   | 110 | 105 | 102 | 99  | 108 | 104 | 101 | 98  |  | 101 | 98  | 96  |  |  | 98  | 96  | 94  |  |  | 95  |
| 3   | 105 | 100 | 96  | 92  | 103 | 98  | 95  | 91  |  | 96  | 93  | 90  |  |  | 94  | 91  | 89  |  |  | 91  |
| 4   | 101 | 95  | 90  | 86  | 99  | 94  | 89  | 86  |  | 91  | 88  | 85  |  |  | 90  | 86  | 84  |  |  | 88  |
| 5   | 97  | 90  | 85  | 81  | 96  | 89  | 84  | 81  |  | 87  | 83  | 80  |  |  | 86  | 82  | 80  |  |  | 84  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 80  | 77  |  | 84  | 79  | 76  |  |  | 82  | 79  | 76  |  |  | 81  |
| 7   | 90  | 82  | 77  | 73  | 88  | 81  | 76  | 73  |  | 80  | 76  | 73  |  |  | 79  | 75  | 72  |  |  | 78  |
| 8   | 86  | 78  | 73  | 70  | 85  | 78  | 73  | 70  |  | 77  | 72  | 69  |  |  | 76  | 72  | 69  |  |  | 75  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  |  | 74  | 69  | 66  |  |  | 73  | 69  | 66  |  |  | 72  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  |  | 71  | 67  | 64  |  |  | 70  | 66  | 64  |  |  | 70  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 439521 |
| 5°  | 424909 |
| 10° | 374875 |
| 15° | 295344 |
| 20° | 202970 |
| 25° | 122575 |
| 30° | 66419  |
| 35° | 34141  |
| 40° | 16686  |
| 45° | 7888   |
| 50° | 4158   |
| 55° | 2769   |
| 60° | 1627   |
| 65° | 642    |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.8   | 20.0      |
| 10°-20°   | 200.5  | 40.1      |
| 20°-30°   | 134.0  | 26.8      |
| 30°-40°   | 48.5   | 9.7       |
| 40°-50°   | 12.5   | 2.5       |
| 50°-60°   | 3.7    | 0.7       |
| 60°-70°   | 0.9    | 0.2       |
| 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°    | 434.3  | 86.9      |
| 0°-40°    | 482.8  | 96.6      |
| 0°-60°    | 499.1  | 99.8      |
| 0°-90°    | 500.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 500.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1135 |      |
| 5°  | 1093 | 100  |
| 15° | 736  | 201  |
| 25° | 287  | 134  |
| 35° | 72   | 49   |
| 45° | 14   | 13   |
| 55° | 4    | 4    |
| 65° | 1    | 1    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1134.7 |
| 2.5°  | 1124.4 |
| 5°    | 1092.8 |
| 7.5°  | 1035.0 |
| 10°   | 953.1  |
| 12.5° | 852.7  |
| 15°   | 736.5  |
| 17.5° | 612.7  |
| 20°   | 492.4  |
| 22.5° | 381.7  |
| 25°   | 286.8  |
| 27.5° | 209.1  |
| 30°   | 148.5  |
| 32.5° | 104.5  |
| 35°   | 72.2   |
| 37.5° | 50.2   |
| 40°   | 33.0   |
| 42.5° | 21.3   |
| 45°   | 14.4   |
| 47.5° | 10.3   |
| 50°   | 6.9    |
| 52.5° | 5.5    |
| 55°   | 4.1    |
| 57.5° | 2.8    |
| 60°   | 2.1    |
| 62.5° | 1.4    |
| 65°   | 0.7    |
| 67.5° | 0.7    |
| 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)