

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: **LSRWM2B05WFL558027D010 2LBDL\*H**

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 (P14807)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSRWM2B05WFL558027D010 2LBDL\*H  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
WIDE FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 658.0 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

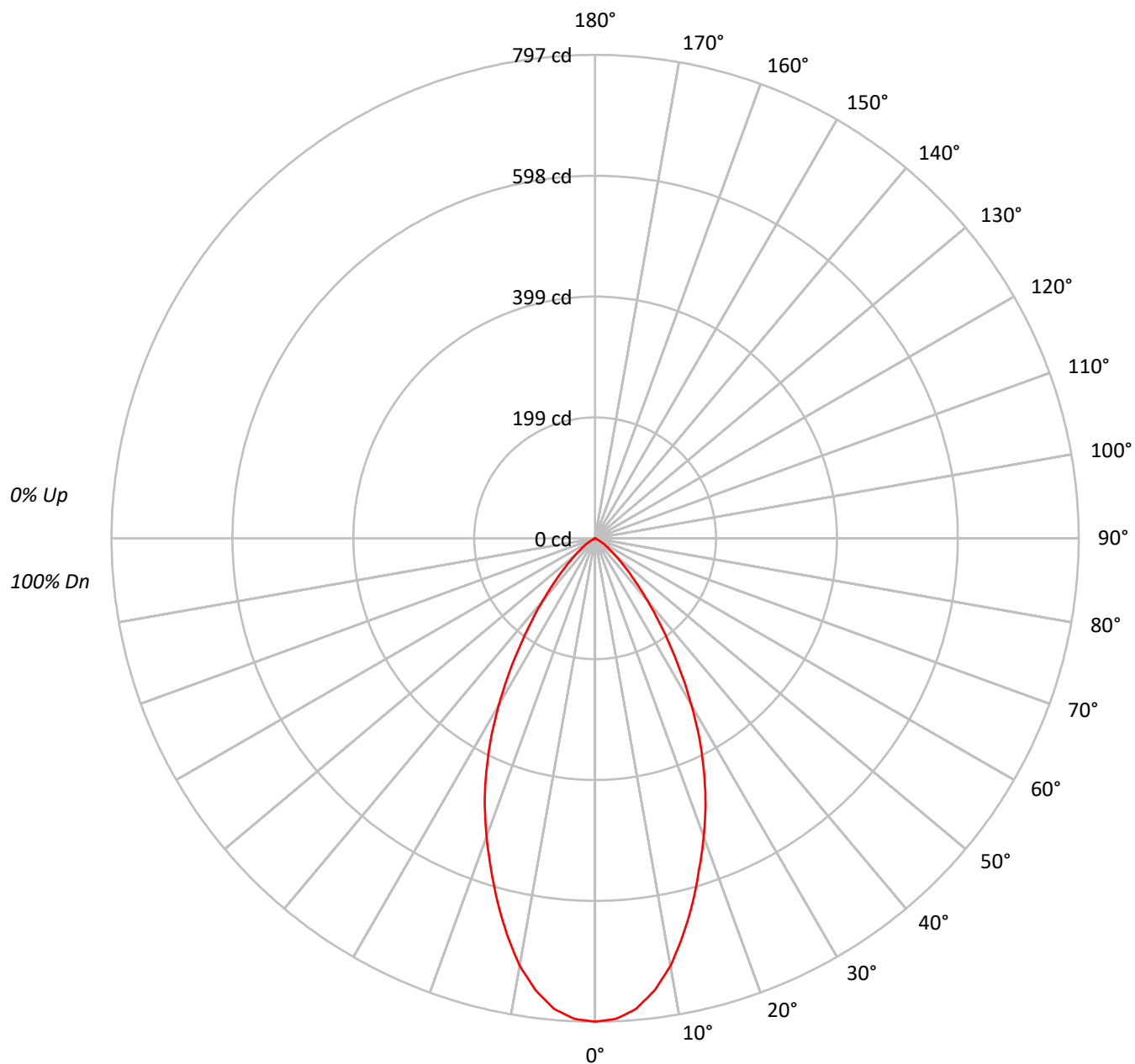
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 113 | 111 | 108 | 106 |  | 111 | 108 | 106 | 104 |  | 104 | 102 | 101 |  | 101 | 99  | 98  |  | 97  | 96  | 95  |
| 2   | 108 | 102 | 98  | 95  |  | 105 | 101 | 97  | 94  |  | 98  | 94  | 92  |  | 95  | 92  | 90  |  | 92  | 90  | 88  |
| 3   | 102 | 95  | 90  | 86  |  | 100 | 94  | 89  | 85  |  | 91  | 87  | 84  |  | 89  | 85  | 83  |  | 86  | 84  | 81  |
| 4   | 96  | 89  | 83  | 79  |  | 95  | 87  | 82  | 78  |  | 85  | 81  | 77  |  | 83  | 79  | 76  |  | 81  | 78  | 75  |
| 5   | 91  | 83  | 77  | 72  |  | 90  | 82  | 76  | 72  |  | 80  | 75  | 71  |  | 78  | 74  | 71  |  | 77  | 73  | 70  |
| 6   | 87  | 77  | 71  | 67  |  | 85  | 77  | 71  | 67  |  | 75  | 70  | 66  |  | 74  | 69  | 66  |  | 72  | 68  | 65  |
| 7   | 82  | 73  | 66  | 62  |  | 81  | 72  | 66  | 62  |  | 71  | 65  | 62  |  | 69  | 65  | 61  |  | 68  | 64  | 61  |
| 8   | 78  | 68  | 62  | 58  |  | 77  | 68  | 62  | 58  |  | 67  | 61  | 57  |  | 66  | 61  | 57  |  | 65  | 60  | 57  |
| 9   | 74  | 64  | 58  | 54  |  | 73  | 64  | 58  | 54  |  | 63  | 58  | 54  |  | 62  | 57  | 54  |  | 61  | 57  | 54  |
| 10  | 71  | 61  | 55  | 51  |  | 70  | 60  | 55  | 51  |  | 60  | 54  | 51  |  | 59  | 54  | 51  |  | 58  | 54  | 50  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 308676 |
| 5°  | 302701 |
| 10° | 281382 |
| 15° | 249107 |
| 20° | 215666 |
| 25° | 181298 |
| 30° | 141963 |
| 35° | 101429 |
| 40° | 67756  |
| 45° | 42015  |
| 50° | 25129  |
| 55° | 15060  |
| 60° | 6740   |
| 65° | 917    |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.3   | 11.0      |
| 10°-20°   | 173.0  | 26.3      |
| 20°-30°   | 193.0  | 29.3      |
| 30°-40°   | 135.2  | 20.5      |
| 40°-50°   | 61.7   | 9.4       |
| 50°-60°   | 20.6   | 3.1       |
| 60°-70°   | 2.3    | 0.3       |
| 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°    | 438.3  | 66.6      |
| 0°-40°    | 573.4  | 87.1      |
| 0°-60°    | 655.7  | 99.7      |
| 0°-90°    | 658.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 658.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 797 |      |
| 5°  | 778 | 72   |
| 15° | 621 | 173  |
| 25° | 424 | 193  |
| 35° | 214 | 135  |
| 45° | 77  | 62   |
| 55° | 22  | 21   |
| 65° | 1   | 2    |
| 75° | 0   | 0    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 796.9 |
| 2.5°  | 793.0 |
| 5°    | 778.5 |
| 7.5°  | 751.3 |
| 10°   | 715.4 |
| 12.5° | 669.8 |
| 15°   | 621.2 |
| 17.5° | 570.8 |
| 20°   | 523.2 |
| 22.5° | 475.6 |
| 25°   | 424.2 |
| 27.5° | 371.8 |
| 30°   | 317.4 |
| 32.5° | 264.0 |
| 35°   | 214.5 |
| 37.5° | 170.8 |
| 40°   | 134.0 |
| 42.5° | 101.9 |
| 45°   | 76.7  |
| 47.5° | 57.3  |
| 50°   | 41.7  |
| 52.5° | 30.1  |
| 55°   | 22.3  |
| 57.5° | 15.5  |
| 60°   | 8.7   |
| 62.5° | 2.9   |
| 65°   | 1.0   |
| 67.5° | 1.0   |
| 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)