

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: **LSR2WM2B20WFL559730D010 2LBDC\*MW**

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 (P14810)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2WM2B20WFL559730D010 2LBDC\*MW  
Description: 2000 Lumen, 2inch Portfolio LED Cylinder  
WIDE FLOOD OPTIC  
CAST ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1298.5 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

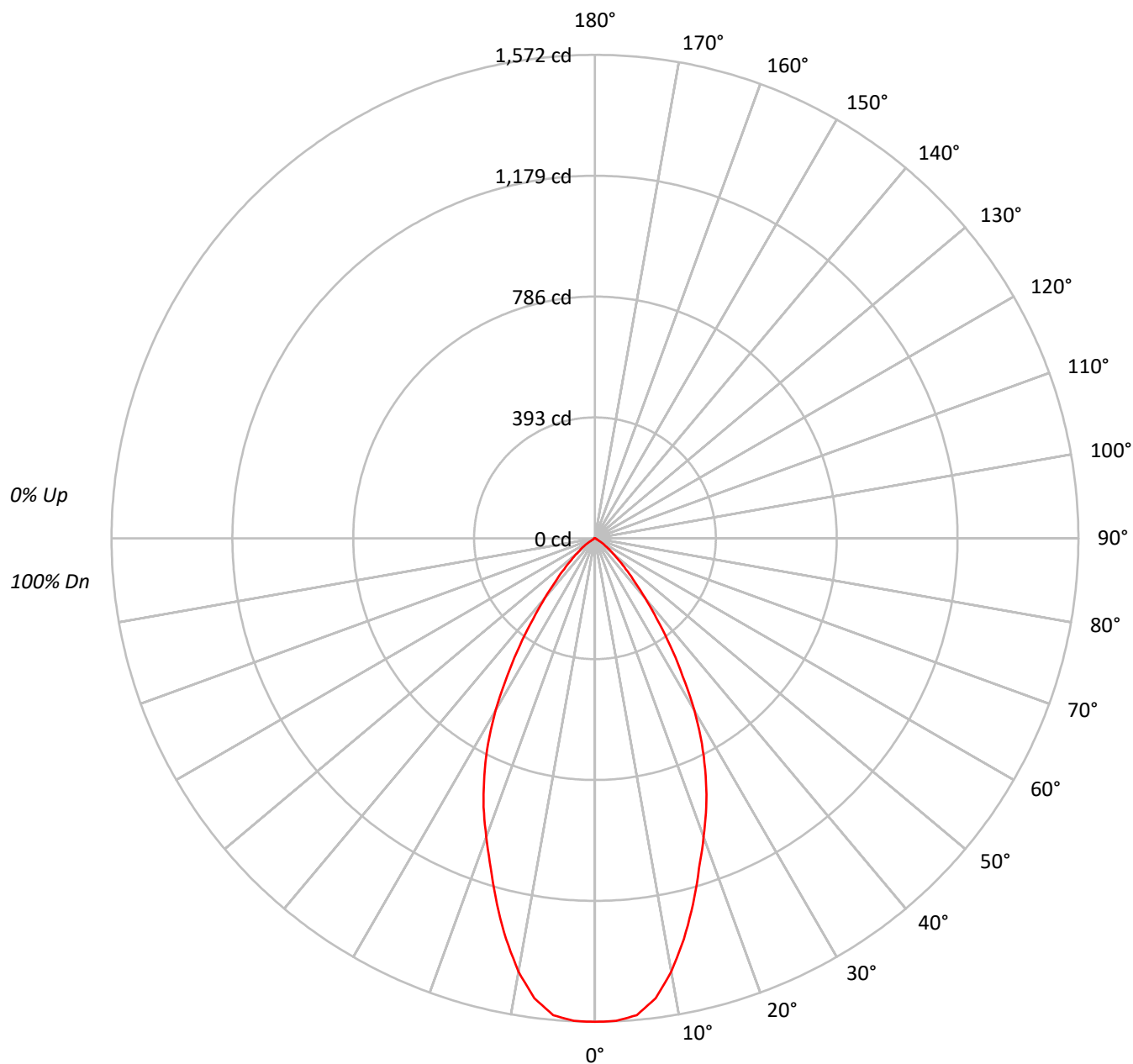
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |    |    | 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 |    |    |   |  |  |  |
| 1   | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |   |  |  |  |
| 2   | 108 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 94  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 86  |    |    |   |  |  |  |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 81  | 80  |    |    |   |  |  |  |
| 4   | 97  | 89  | 83  | 79  | 95  | 88  | 82  | 78  | 85  | 81  | 77  | 83  | 80  | 76  | 82  | 78  | 76  | 74  |    |    |   |  |  |  |
| 5   | 91  | 83  | 77  | 72  | 90  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 69  |    |    |   |  |  |  |
| 6   | 87  | 78  | 71  | 67  | 85  | 77  | 71  | 67  | 75  | 70  | 66  | 74  | 69  | 66  | 73  | 69  | 65  | 64  |    |    |   |  |  |  |
| 7   | 82  | 73  | 67  | 62  | 81  | 72  | 66  | 62  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 64  | 61  | 60  |    |    |   |  |  |  |
| 8   | 78  | 69  | 62  | 58  | 77  | 68  | 62  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 65  | 61  | 57  | 56  |    |    |   |  |  |  |
| 9   | 74  | 65  | 59  | 55  | 73  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 53  |    |    |   |  |  |  |
| 10  | 71  | 61  | 55  | 51  | 70  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 58  | 54  | 51  | 49  |    |    |   |  |  |  |

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

|     | 0°     |
|-----|--------|
| 0°  | 609102 |
| 5°  | 605246 |
| 10° | 562646 |
| 15° | 493964 |
| 20° | 425808 |
| 25° | 364093 |
| 30° | 288936 |
| 35° | 201439 |
| 40° | 127422 |
| 45° | 77786  |
| 50° | 45979  |
| 55° | 25189  |
| 60° | 5500   |
| 65° | 4858   |
| 70° | 3964   |
| 75° | 5238   |
| 80° | 4015   |
| 85° | 8000   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.5  | 11.1      |
| 10°-20°   | 343.1  | 26.4      |
| 20°-30°   | 387.0  | 29.8      |
| 30°-40°   | 267.7  | 20.6      |
| 40°-50°   | 114.1  | 8.8       |
| 50°-60°   | 33.0   | 2.5       |
| 60°-70°   | 4.8    | 0.4       |
| 70°-80°   | 3.0    | 0.2       |
| 80°-90°   | 1.2    | 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°    | 874.5  | 67.4      |
| 0°-40°    | 1142.3 | 88.0      |
| 0°-60°    | 1289.4 | 99.3      |
| 0°-90°    | 1298.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1298.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1572 |      |
| 5°  | 1557 | 144  |
| 15° | 1232 | 343  |
| 25° | 852  | 387  |
| 35° | 426  | 268  |
| 45° | 142  | 114  |
| 55° | 37   | 33   |
| 65° | 5    | 5    |
| 75° | 4    | 3    |
| 85° | 2    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1572.5 |
| 2.5°  | 1570.8 |
| 5°    | 1556.6 |
| 7.5°  | 1508.6 |
| 10°   | 1430.5 |
| 12.5° | 1334.7 |
| 15°   | 1231.8 |
| 17.5° | 1125.3 |
| 20°   | 1033.0 |
| 22.5° | 946.0  |
| 25°   | 851.9  |
| 27.5° | 752.5  |
| 30°   | 646.0  |
| 32.5° | 530.7  |
| 35°   | 426.0  |
| 37.5° | 330.1  |
| 40°   | 252.0  |
| 42.5° | 189.9  |
| 45°   | 142.0  |
| 47.5° | 102.9  |
| 50°   | 76.3   |
| 52.5° | 55.0   |
| 55°   | 37.3   |
| 57.5° | 16.0   |
| 60°   | 7.1    |
| 62.5° | 5.3    |
| 65°   | 5.3    |
| 67.5° | 3.5    |
| 70°   | 3.5    |
| 72.5° | 3.5    |
| 75°   | 3.5    |
| 77.5° | 1.8    |
| 80°   | 1.8    |
| 82.5° | 1.8    |
| 85°   | 1.8    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)