

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: **LSR2B20WFL558050D010 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: LSR2B20WFL558050D010 2LBD\*LI  
Description: 2000 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: 1848.5 lumens  
Efficiency: N/A  
Efficacy: 88.4 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

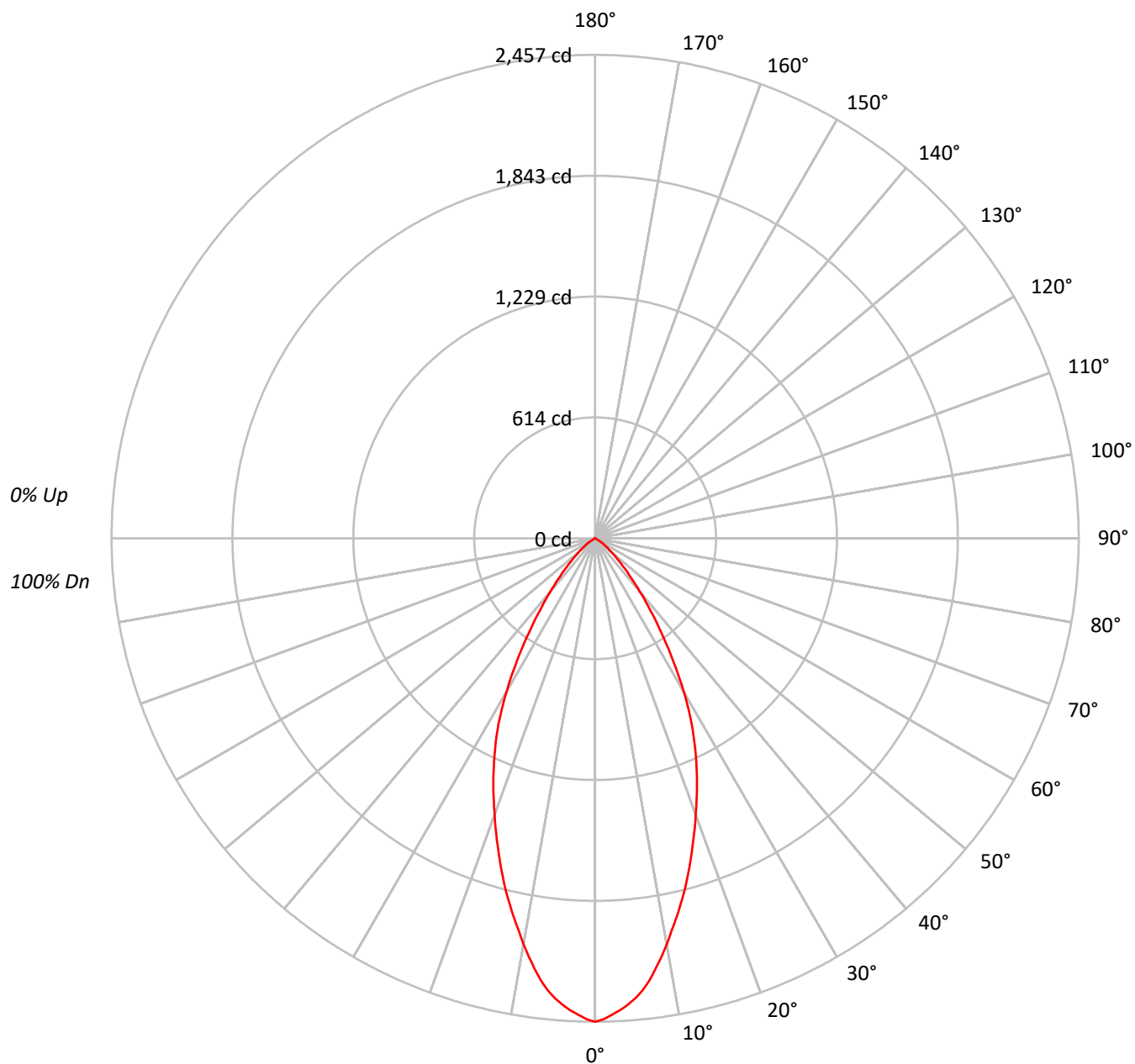
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| 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°  | 951864 |
| 5°  | 912418 |
| 10° | 824048 |
| 15° | 721938 |
| 20° | 615958 |
| 25° | 516713 |
| 30° | 403034 |
| 35° | 277854 |
| 40° | 178442 |
| 45° | 107969 |
| 50° | 63334  |
| 55° | 35522  |
| 60° | 10148  |
| 65° | 0      |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 215.9  | 11.7      |
| 10°-20°   | 500.4  | 27.1      |
| 20°-30°   | 549.9  | 29.7      |
| 30°-40°   | 372.1  | 20.1      |
| 40°-50°   | 159.5  | 8.6       |
| 50°-60°   | 48.7   | 2.6       |
| 60°-70°   | 2.0    | 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°    | 1266.1 | 68.5      |
| 0°-40°    | 1638.2 | 88.6      |
| 0°-60°    | 1846.5 | 99.9      |
| 0°-90°    | 1848.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1848.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2457 |      |
| 5°  | 2347 | 216  |
| 15° | 1800 | 500  |
| 25° | 1209 | 550  |
| 35° | 588  | 372  |
| 45° | 197  | 160  |
| 55° | 53   | 49   |
| 65° | 0    | 2    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2457.4 |
| 1°    | 2444.3 |
| 2°    | 2423.6 |
| 3°    | 2403.0 |
| 4°    | 2376.7 |
| 5°    | 2346.6 |
| 6°    | 2309.1 |
| 7°    | 2264.0 |
| 8°    | 2209.6 |
| 9°    | 2153.3 |
| 10°   | 2095.1 |
| 11°   | 2033.1 |
| 12°   | 1976.8 |
| 13°   | 1918.6 |
| 14°   | 1860.4 |
| 15°   | 1800.3 |
| 17.5° | 1644.5 |
| 20°   | 1494.3 |
| 22.5° | 1351.7 |
| 25°   | 1209.0 |
| 27.5° | 1062.6 |
| 30°   | 901.1  |
| 32.5° | 737.8  |
| 35°   | 587.6  |
| 37.5° | 459.9  |
| 40°   | 352.9  |
| 42.5° | 266.6  |
| 45°   | 197.1  |
| 47.5° | 144.6  |
| 50°   | 105.1  |
| 52.5° | 75.1   |
| 55°   | 52.6   |
| 57.5° | 33.8   |
| 60°   | 13.1   |
| 62.5° | 1.9    |
| 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)