

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: **LD2B20D010 EU2B20WFL559024 2LBD\*WH**

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 (P14804)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B20D010 EU2B20WFL559024 2LBD\*WH  
Description: 2000 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
SPUN ROUND TRIM WITH WHEAT HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1252.5 lumens  
Efficiency: N/A  
Efficacy: 59.9 lumens/watt  
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.81  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

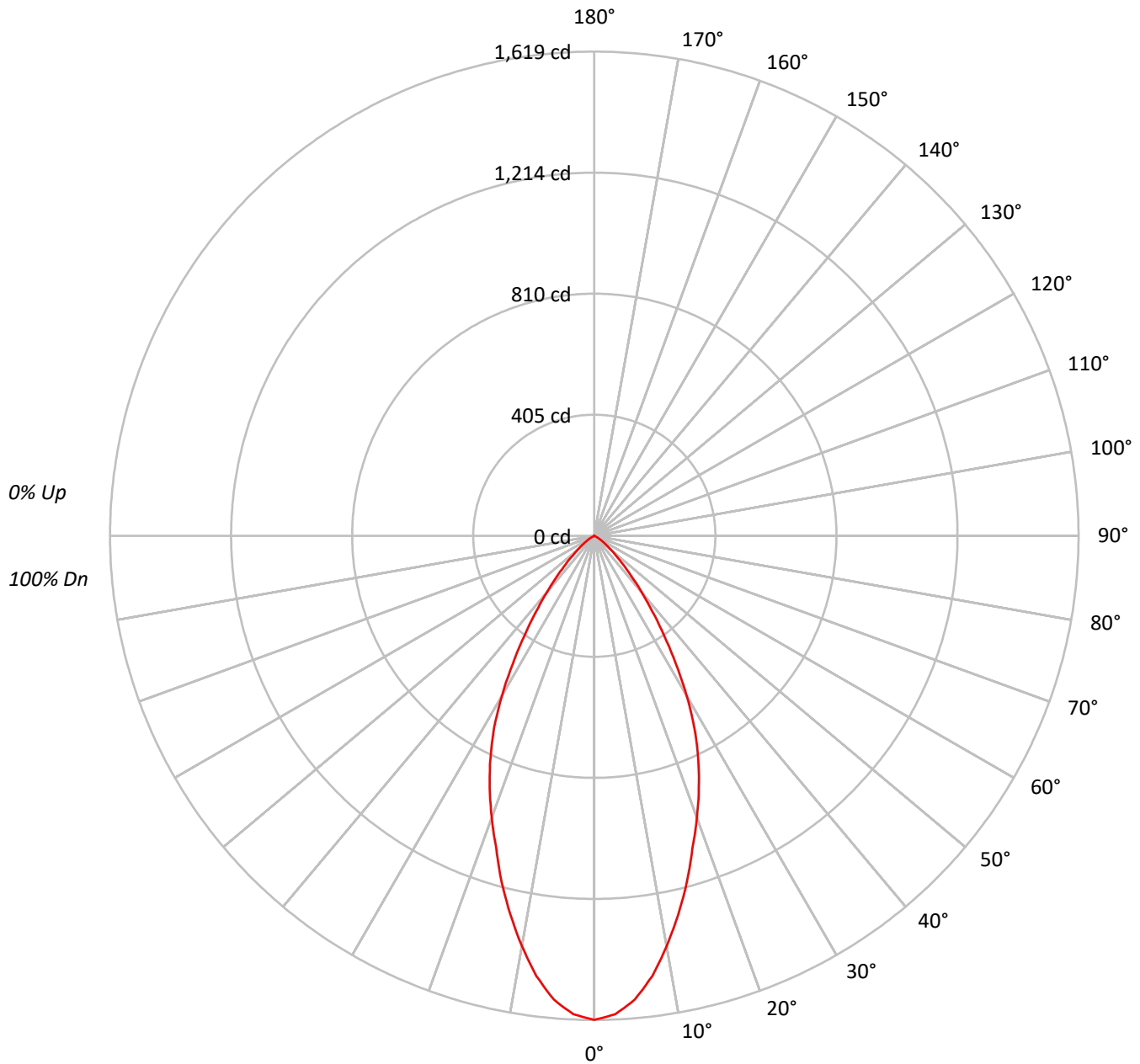
Input Watts (W): 20.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 108 | 106 | 104 |  | 104 | 103 | 101 |  |  | 101 | 99  | 98  |  |  | 97  |
| 2   | 108 | 103 | 99  | 95  |  | 105 | 101 | 97  | 94  |  | 98  | 95  | 92  |  |  | 95  | 92  | 90  |  |  | 92  |
| 3   | 102 | 96  | 90  | 86  |  | 100 | 94  | 90  | 86  |  | 92  | 88  | 84  |  |  | 89  | 86  | 83  |  |  | 87  |
| 4   | 97  | 89  | 83  | 79  |  | 95  | 88  | 83  | 79  |  | 86  | 81  | 78  |  |  | 84  | 80  | 77  |  |  | 82  |
| 5   | 92  | 83  | 77  | 73  |  | 90  | 82  | 77  | 73  |  | 80  | 76  | 72  |  |  | 79  | 75  | 71  |  |  | 77  |
| 6   | 87  | 78  | 72  | 68  |  | 86  | 77  | 71  | 67  |  | 76  | 71  | 67  |  |  | 74  | 70  | 66  |  |  | 73  |
| 7   | 83  | 73  | 67  | 63  |  | 81  | 73  | 67  | 63  |  | 71  | 66  | 62  |  |  | 70  | 65  | 62  |  |  | 69  |
| 8   | 79  | 69  | 63  | 59  |  | 77  | 68  | 63  | 59  |  | 67  | 62  | 58  |  |  | 66  | 61  | 58  |  |  | 65  |
| 9   | 75  | 65  | 59  | 55  |  | 74  | 64  | 59  | 55  |  | 64  | 58  | 55  |  |  | 63  | 58  | 54  |  |  | 62  |
| 10  | 71  | 61  | 56  | 52  |  | 70  | 61  | 55  | 52  |  | 60  | 55  | 51  |  |  | 59  | 55  | 51  |  |  | 59  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 626997 |
| 5°  | 605285 |
| 10° | 548015 |
| 15° | 480089 |
| 20° | 413359 |
| 25° | 351399 |
| 30° | 276188 |
| 35° | 191982 |
| 40° | 124388 |
| 45° | 74445  |
| 50° | 43508  |
| 55° | 24379  |
| 60° | 9296   |
| 65° | 0      |
| 70° | 0      |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 143.3  | 11.4      |
| 10°-20°   | 333.3  | 26.6      |
| 20°-30°   | 373.4  | 29.8      |
| 30°-40°   | 256.6  | 20.5      |
| 40°-50°   | 110.3  | 8.8       |
| 50°-60°   | 33.6   | 2.7       |
| 60°-70°   | 1.9    | 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°    | 850.1  | 67.9      |
| 0°-40°    | 1106.7 | 88.4      |
| 0°-60°    | 1250.6 | 99.9      |
| 0°-90°    | 1252.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1252.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1619 |      |
| 5°  | 1557 | 143  |
| 15° | 1197 | 333  |
| 25° | 822  | 373  |
| 35° | 406  | 257  |
| 45° | 136  | 110  |
| 55° | 36   | 34   |
| 65° | 0    | 2    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1618.7 |
| 2.5°  | 1601.5 |
| 5°    | 1556.7 |
| 7.5°  | 1484.5 |
| 10°   | 1393.3 |
| 12.5° | 1297.0 |
| 15°   | 1197.2 |
| 17.5° | 1092.3 |
| 20°   | 1002.8 |
| 22.5° | 913.4  |
| 25°   | 822.2  |
| 27.5° | 725.9  |
| 30°   | 617.5  |
| 32.5° | 507.4  |
| 35°   | 406.0  |
| 37.5° | 318.2  |
| 40°   | 246.0  |
| 42.5° | 184.1  |
| 45°   | 135.9  |
| 47.5° | 99.8   |
| 50°   | 72.2   |
| 52.5° | 49.9   |
| 55°   | 36.1   |
| 57.5° | 24.1   |
| 60°   | 12.0   |
| 62.5° | 1.7    |
| 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    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)