

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: **LD2B15D010 EU2B15WFL559730 2LBD\*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: LD2B15D010 EU2B15WFL559730 2LBD\*MW  
Description: 1500 Lumen, 2inch Portfolio LED Downlight  
WIDE FLOOD OPTIC  
SPUN ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

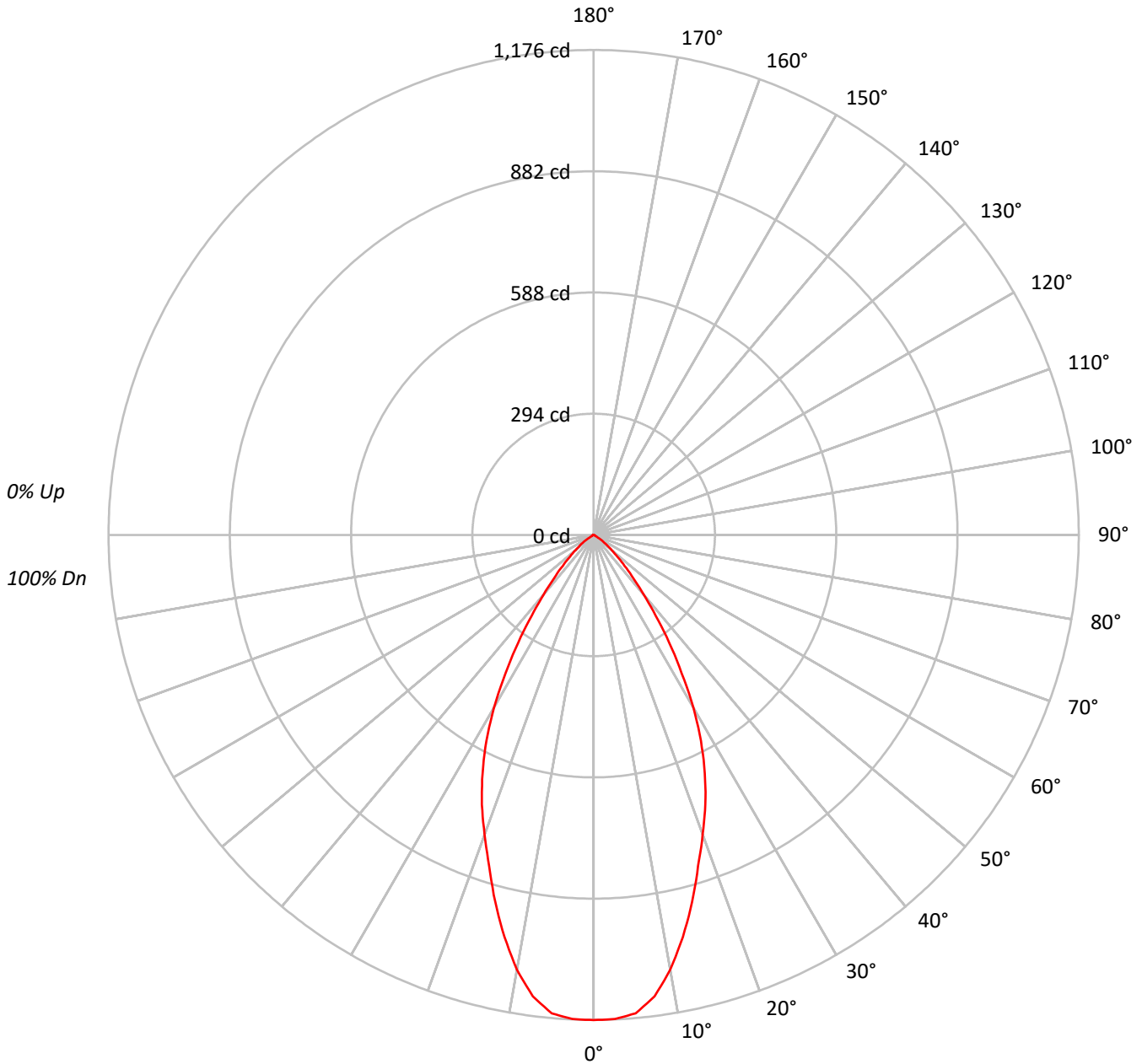
Lumens per Lamp: N/A  
Luminaire Lumens: 971.5 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P#  
CATALOG NUMBER: LD2B15D010 EU2B15WFL559730 2LBD\*MW

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL559730 2LBD\*MW

**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°  | 455713 |
| 5°  | 452826 |
| 10° | 420972 |
| 15° | 369571 |
| 20° | 318552 |
| 25° | 272418 |
| 30° | 216210 |
| 35° | 150701 |
| 40° | 95365  |
| 45° | 58175  |
| 50° | 34409  |
| 55° | 18841  |
| 60° | 4106   |
| 65° | 3666   |
| 70° | 3058   |
| 75° | 4041   |
| 80° | 2900   |
| 85° | 5778   |



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL559730 2LBD\*MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.1  | 11.1      |
| 10°-20°   | 256.7  | 26.4      |
| 20°-30°   | 289.6  | 29.8      |
| 30°-40°   | 200.3  | 20.6      |
| 40°-50°   | 85.4   | 8.8       |
| 50°-60°   | 24.7   | 2.5       |
| 60°-70°   | 3.6    | 0.4       |
| 70°-80°   | 2.3    | 0.2       |
| 80°-90°   | 0.9    | 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°    | 654.3  | 67.3      |
| 0°-40°    | 854.6  | 88.0      |
| 0°-60°    | 964.7  | 99.3      |
| 0°-90°    | 971.5  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 971.5  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1176 |      |
| 5°  | 1165 | 108  |
| 15° | 922  | 257  |
| 25° | 637  | 290  |
| 35° | 319  | 200  |
| 45° | 106  | 85   |
| 55° | 28   | 25   |
| 65° | 4    | 4    |
| 75° | 3    | 2    |
| 85° | 1    | 1    |
| 90° | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD2B15D010 EU2B15WFL559730 2LBD\*MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1176.5 |
| 2.5°  | 1175.2 |
| 5°    | 1164.6 |
| 7.5°  | 1128.7 |
| 10°   | 1070.3 |
| 12.5° | 998.6  |
| 15°   | 921.6  |
| 17.5° | 841.9  |
| 20°   | 772.8  |
| 22.5° | 707.8  |
| 25°   | 637.4  |
| 27.5° | 563.0  |
| 30°   | 483.4  |
| 32.5° | 397.0  |
| 35°   | 318.7  |
| 37.5° | 247.0  |
| 40°   | 188.6  |
| 42.5° | 142.1  |
| 45°   | 106.2  |
| 47.5° | 77.0   |
| 50°   | 57.1   |
| 52.5° | 41.2   |
| 55°   | 27.9   |
| 57.5° | 12.0   |
| 60°   | 5.3    |
| 62.5° | 4.0    |
| 65°   | 4.0    |
| 67.5° | 2.7    |
| 70°   | 2.7    |
| 72.5° | 2.7    |
| 75°   | 2.7    |
| 77.5° | 1.3    |
| 80°   | 1.3    |
| 82.5° | 1.3    |
| 85°   | 1.3    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)