

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: P315674

Luminaire Tested: **LDA2B10WFL9030D010 PINW1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B10WFL9030D010 PINW1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj PinHole, White oculus black finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 753.2 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

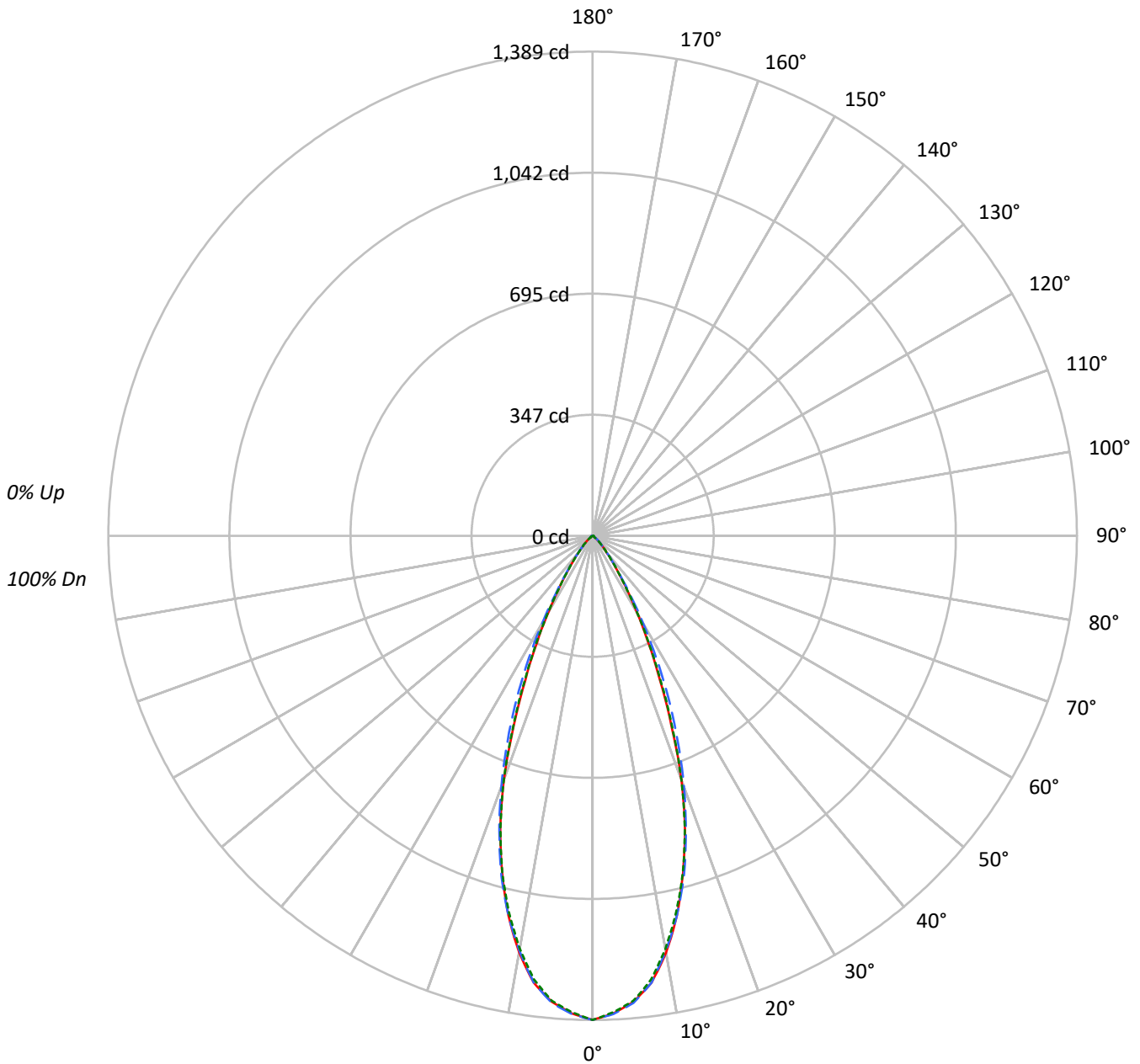
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | | | | | | | | | | | | | | | | | | | |
| 2 | 109 | 104 | 101 | 98 | 107 | 103 | 99 | 96 | 100 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 90 | 87 | 85 | 84 | | | | | | | | | | | | | | | | | | | |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 83 | 90 | 86 | 82 | 88 | 84 | 81 | 86 | 83 | 81 | 79 | | | | | | | | | | | | | | | | | | | |
| 5 | 95 | 88 | 82 | 79 | 94 | 87 | 82 | 78 | 85 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | | | | | | | | | | | | | | | | | | | |
| 6 | 91 | 83 | 78 | 74 | 90 | 82 | 77 | 74 | 81 | 77 | 73 | 80 | 76 | 73 | 78 | 75 | 72 | 71 | | | | | | | | | | | | | | | | | | | |
| 7 | 87 | 79 | 74 | 70 | 86 | 78 | 73 | 70 | 77 | 73 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 8 | 84 | 75 | 70 | 66 | 83 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 68 | 65 | 64 | | | | | | | | | | | | | | | | | | | |
| 9 | 81 | 72 | 67 | 63 | 80 | 71 | 66 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 62 | 61 | | | | | | | | | | | | | | | | | | | |
| 10 | 77 | 69 | 64 | 60 | 76 | 68 | 63 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 66 | 62 | 60 | 58 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 685230 | 685230 | 685230 |
| 5° | 664621 | 666205 | 663234 |
| 10° | 608331 | 605926 | 602269 |
| 15° | 511736 | 516435 | 510868 |
| 20° | 391301 | 401696 | 390671 |
| 25° | 248502 | 280184 | 253347 |
| 30° | 144529 | 163158 | 147036 |
| 35° | 76370 | 81248 | 76671 |
| 40° | 40317 | 42120 | 40317 |
| 45° | 22536 | 23374 | 22815 |
| 50° | 10515 | 13355 | 10515 |
| 55° | 3785 | 7311 | 4129 |
| 60° | 4342 | 4342 | 4342 |
| 65° | 4670 | 5137 | 4670 |
| 70° | 5770 | 5193 | 5770 |
| 75° | 5337 | 5337 | 5337 |
| 80° | 5682 | 4546 | 5682 |
| 85° | 4529 | 4529 | 4529 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 124.0 | 16.5 |
| 10°-20° | 276.0 | 36.6 |
| 20°-30° | 222.9 | 29.6 |
| 30°-40° | 88.1 | 11.7 |
| 40°-50° | 27.0 | 3.6 |
| 50°-60° | 7.0 | 0.9 |
| 60°-70° | 4.2 | 0.6 |
| 70°-80° | 3.1 | 0.4 |
| 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° | 622.9 | 82.7 |
| 0°-40° | 711.0 | 94.4 |
| 0°-60° | 745.1 | 98.9 |
| 0°-90° | 753.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 753.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1389 | 1389 | 1389 | 1389 | 1389 | |
| 5° | 1342 | 1344 | 1345 | 1342 | 1339 | 124 |
| 15° | 1002 | 1005 | 1011 | 1007 | 1000 | 275 |
| 25° | 456 | 478 | 515 | 487 | 465 | 213 |
| 35° | 127 | 130 | 135 | 131 | 127 | 85 |
| 45° | 32 | 33 | 34 | 33 | 33 | 26 |
| 55° | 4 | 6 | 8 | 6 | 5 | 6 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 75° | 3 | 3 | 3 | 3 | 3 | 3 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1388.9 | 1388.9 | 1388.9 | 1388.9 | 1388.9 |
| 2.5° | 1371.5 | 1372.3 | 1373.5 | 1371.9 | 1367.9 |
| 5° | 1342.0 | 1344.4 | 1345.2 | 1342.4 | 1339.2 |
| 7.5° | 1293.5 | 1290.7 | 1293.1 | 1288.3 | 1284.2 |
| 10° | 1214.3 | 1210.7 | 1209.5 | 1202.2 | 1202.2 |
| 12.5° | 1116.6 | 1115.4 | 1116.2 | 1112.5 | 1106.9 |
| 15° | 1001.9 | 1004.7 | 1011.1 | 1007.1 | 1000.2 |
| 17.5° | 880.3 | 884.3 | 890.0 | 888.7 | 879.4 |
| 20° | 745.3 | 757.0 | 765.1 | 757.4 | 744.1 |
| 22.5° | 591.8 | 616.9 | 637.5 | 621.3 | 599.5 |
| 25° | 456.5 | 478.3 | 514.7 | 487.2 | 465.4 |
| 27.5° | 346.2 | 362.0 | 395.1 | 368.0 | 353.1 |
| 30° | 253.7 | 263.4 | 286.4 | 268.6 | 258.1 |
| 32.5° | 181.4 | 188.3 | 197.9 | 187.4 | 182.2 |
| 35° | 126.8 | 130.5 | 134.9 | 130.9 | 127.3 |
| 37.5° | 89.3 | 90.5 | 93.7 | 90.5 | 88.9 |
| 40° | 62.6 | 63.0 | 65.4 | 63.4 | 62.6 |
| 42.5° | 45.2 | 45.2 | 46.5 | 45.6 | 45.2 |
| 45° | 32.3 | 32.7 | 33.5 | 33.1 | 32.7 |
| 47.5° | 23.0 | 23.8 | 23.8 | 24.2 | 22.6 |
| 50° | 13.7 | 17.0 | 17.4 | 17.0 | 13.7 |
| 52.5° | 7.3 | 10.1 | 12.5 | 10.1 | 7.3 |
| 55° | 4.4 | 6.1 | 8.5 | 6.1 | 4.8 |
| 57.5° | 4.4 | 4.4 | 5.7 | 4.8 | 4.4 |
| 60° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 62.5° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 |
| 65° | 4.0 | 4.4 | 4.4 | 4.4 | 4.0 |
| 67.5° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 70° | 4.0 | 4.0 | 3.6 | 4.0 | 4.0 |
| 72.5° | 3.6 | 3.6 | 3.2 | 3.6 | 3.6 |
| 75° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 77.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 80° | 2.0 | 2.0 | 1.6 | 2.0 | 2.0 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 85° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 87.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)