

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: P315636

Luminaire Tested: **LDA2B10WFL8030D010 PINW1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315636
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: LDA2B10WFL8030D010 PINW1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj PinHole, White oculus, matte metallic silver finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 933.9 lumens
Efficiency: N/A
Efficacy: 93.4 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

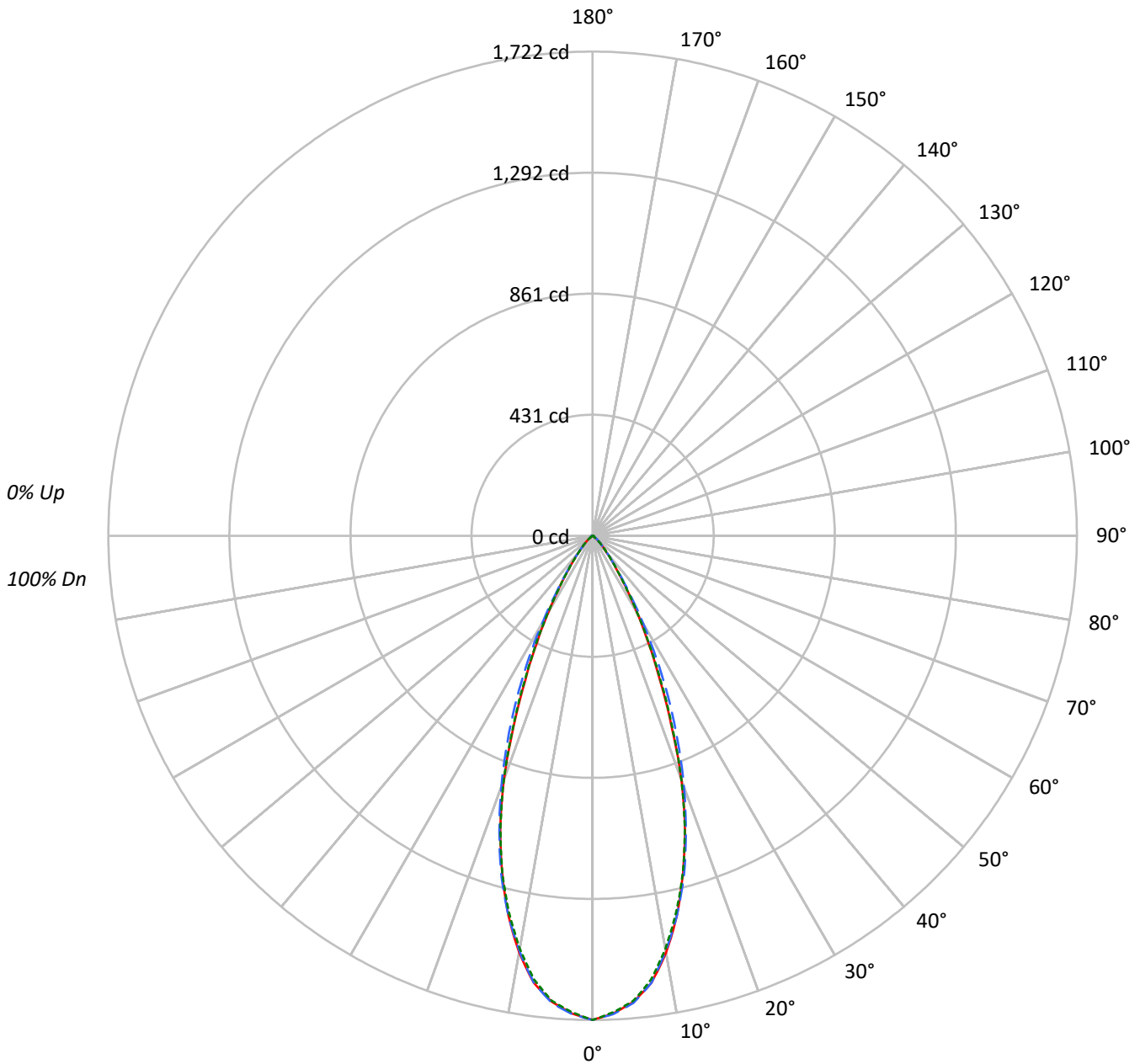
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P315636

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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° | 849520 | 849520 | 849520 |
| 5° | 823991 | 825972 | 822208 |
| 10° | 754214 | 751209 | 746700 |
| 15° | 634422 | 640296 | 633401 |
| 20° | 485123 | 498038 | 484335 |
| 25° | 308056 | 347359 | 314098 |
| 30° | 179166 | 202295 | 182299 |
| 35° | 94739 | 100762 | 95040 |
| 40° | 49977 | 52231 | 49977 |
| 45° | 27979 | 29025 | 28327 |
| 50° | 13048 | 16502 | 13048 |
| 55° | 4731 | 9032 | 5161 |
| 60° | 5427 | 5427 | 5427 |
| 65° | 5837 | 6421 | 5837 |
| 70° | 7212 | 6491 | 7212 |
| 75° | 6672 | 6672 | 6672 |
| 80° | 7103 | 5682 | 7103 |
| 85° | 5661 | 5661 | 5661 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.7 | 16.5 |
| 10°-20° | 342.2 | 36.6 |
| 20°-30° | 276.4 | 29.6 |
| 30°-40° | 109.2 | 11.7 |
| 40°-50° | 33.5 | 3.6 |
| 50°-60° | 8.6 | 0.9 |
| 60°-70° | 5.2 | 0.6 |
| 70°-80° | 3.8 | 0.4 |
| 80°-90° | 1.1 | 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° | 772.3 | 82.7 |
| 0°-40° | 881.5 | 94.4 |
| 0°-60° | 923.7 | 98.9 |
| 0°-90° | 933.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 933.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1722 | 1722 | 1722 | 1722 | 1722 | |
| 5° | 1664 | 1667 | 1668 | 1664 | 1660 | 154 |
| 15° | 1242 | 1246 | 1254 | 1249 | 1240 | 341 |
| 25° | 566 | 593 | 638 | 604 | 577 | 263 |
| 35° | 157 | 162 | 167 | 162 | 158 | 105 |
| 45° | 40 | 41 | 42 | 41 | 41 | 33 |
| 55° | 6 | 8 | 10 | 8 | 6 | 7 |
| 65° | 5 | 6 | 6 | 6 | 5 | 5 |
| 75° | 4 | 4 | 4 | 4 | 4 | 4 |
| 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° | 1721.9 | 1721.9 | 1721.9 | 1721.9 | 1721.9 |
| 2.5° | 1700.3 | 1701.3 | 1702.8 | 1700.8 | 1695.8 |
| 5° | 1663.8 | 1666.8 | 1667.8 | 1664.3 | 1660.2 |
| 7.5° | 1603.7 | 1600.2 | 1603.2 | 1597.1 | 1592.1 |
| 10° | 1505.5 | 1501.0 | 1499.5 | 1490.5 | 1490.5 |
| 12.5° | 1384.3 | 1382.8 | 1383.8 | 1379.3 | 1372.3 |
| 15° | 1242.1 | 1245.6 | 1253.6 | 1248.6 | 1240.1 |
| 17.5° | 1091.3 | 1096.3 | 1103.3 | 1101.8 | 1090.3 |
| 20° | 924.0 | 938.6 | 948.6 | 939.1 | 922.5 |
| 22.5° | 733.7 | 764.8 | 790.3 | 770.3 | 743.2 |
| 25° | 565.9 | 593.0 | 638.1 | 604.0 | 577.0 |
| 27.5° | 429.2 | 448.7 | 489.8 | 456.3 | 437.7 |
| 30° | 314.5 | 326.5 | 355.1 | 333.1 | 320.0 |
| 32.5° | 224.9 | 233.4 | 245.4 | 232.4 | 225.9 |
| 35° | 157.3 | 161.8 | 167.3 | 162.3 | 157.8 |
| 37.5° | 110.7 | 112.2 | 116.2 | 112.2 | 110.2 |
| 40° | 77.6 | 78.1 | 81.1 | 78.6 | 77.6 |
| 42.5° | 56.1 | 56.1 | 57.6 | 56.6 | 56.1 |
| 45° | 40.1 | 40.6 | 41.6 | 41.1 | 40.6 |
| 47.5° | 28.5 | 29.5 | 29.5 | 30.0 | 28.0 |
| 50° | 17.0 | 21.0 | 21.5 | 21.0 | 17.0 |
| 52.5° | 9.0 | 12.5 | 15.5 | 12.5 | 9.0 |
| 55° | 5.5 | 7.5 | 10.5 | 7.5 | 6.0 |
| 57.5° | 5.5 | 5.5 | 7.0 | 6.0 | 5.5 |
| 60° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 62.5° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 65° | 5.0 | 5.5 | 5.5 | 5.5 | 5.0 |
| 67.5° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 70° | 5.0 | 5.0 | 4.5 | 5.0 | 5.0 |
| 72.5° | 4.5 | 4.5 | 4.0 | 4.5 | 4.5 |
| 75° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 77.5° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 80° | 2.5 | 2.5 | 2.0 | 2.5 | 2.5 |
| 82.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 85° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 87.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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







(END OF REPORT)