

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: P315641

Luminaire Tested: **LDA2B10WFL8035D010 PIN1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315641
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: LDA2B10WFL8035D010 PIN1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj PinHole, Black oculus, matte metallic silver finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 908.7 lumens
Efficiency: N/A
Efficacy: 90.9 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

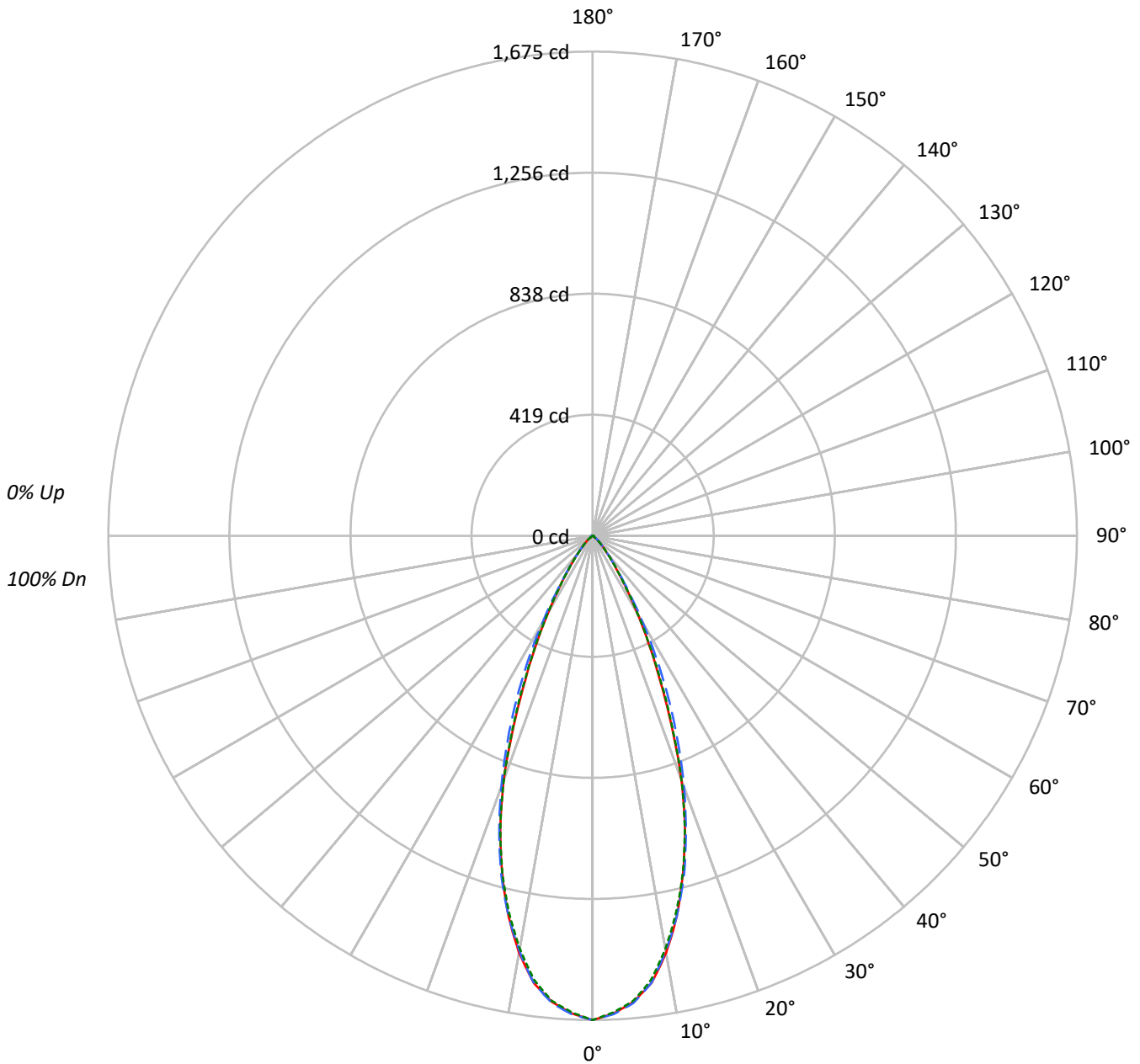
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 826480 | 826480 | 826480 |
| 5° | 801655 | 803587 | 799971 |
| 10° | 733775 | 730869 | 726460 |
| 15° | 617209 | 622930 | 616239 |
| 20° | 471997 | 484545 | 471210 |
| 25° | 299727 | 337941 | 305552 |
| 30° | 174324 | 196826 | 177400 |
| 35° | 92149 | 97992 | 92451 |
| 40° | 48625 | 50815 | 48625 |
| 45° | 27211 | 28188 | 27560 |
| 50° | 12741 | 16118 | 12741 |
| 55° | 4645 | 8774 | 4989 |
| 60° | 5328 | 5328 | 5328 |
| 65° | 5720 | 6304 | 5720 |
| 70° | 7068 | 6347 | 7068 |
| 75° | 6481 | 6481 | 6481 |
| 80° | 6819 | 5398 | 6819 |
| 85° | 5661 | 5661 | 5661 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.5 | 16.5 |
| 10°-20° | 333.0 | 36.6 |
| 20°-30° | 268.9 | 29.6 |
| 30°-40° | 106.3 | 11.7 |
| 40°-50° | 32.6 | 3.6 |
| 50°-60° | 8.4 | 0.9 |
| 60°-70° | 5.1 | 0.6 |
| 70°-80° | 3.7 | 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° | 751.4 | 82.7 |
| 0°-40° | 857.7 | 94.4 |
| 0°-60° | 898.7 | 98.9 |
| 0°-90° | 908.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 908.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1675 | 1675 | 1675 | 1675 | 1675 | |
| 5° | 1619 | 1622 | 1623 | 1619 | 1615 | 150 |
| 15° | 1208 | 1212 | 1220 | 1215 | 1206 | 332 |
| 25° | 551 | 577 | 621 | 588 | 561 | 256 |
| 35° | 153 | 157 | 163 | 158 | 154 | 102 |
| 45° | 39 | 40 | 40 | 40 | 40 | 32 |
| 55° | 5 | 7 | 10 | 7 | 6 | 7 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 75° | 3 | 3 | 3 | 3 | 3 | 4 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P315641

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1675.2 | 1675.2 | 1675.2 | 1675.2 | 1675.2 |
| 2.5° | 1654.3 | 1655.2 | 1656.7 | 1654.8 | 1649.9 |
| 5° | 1618.7 | 1621.6 | 1622.6 | 1619.2 | 1615.3 |
| 7.5° | 1560.2 | 1556.8 | 1559.7 | 1553.9 | 1549.0 |
| 10° | 1464.7 | 1460.3 | 1458.9 | 1450.1 | 1450.1 |
| 12.5° | 1346.8 | 1345.3 | 1346.3 | 1341.9 | 1335.1 |
| 15° | 1208.4 | 1211.8 | 1219.6 | 1214.8 | 1206.5 |
| 17.5° | 1061.8 | 1066.6 | 1073.4 | 1072.0 | 1060.8 |
| 20° | 899.0 | 913.1 | 922.9 | 913.6 | 897.5 |
| 22.5° | 713.8 | 744.1 | 768.9 | 749.4 | 723.1 |
| 25° | 550.6 | 576.9 | 620.8 | 587.6 | 561.3 |
| 27.5° | 417.6 | 436.6 | 476.5 | 443.9 | 425.9 |
| 30° | 306.0 | 317.7 | 345.5 | 324.0 | 311.4 |
| 32.5° | 218.8 | 227.1 | 238.8 | 226.1 | 219.8 |
| 35° | 153.0 | 157.4 | 162.7 | 157.9 | 153.5 |
| 37.5° | 107.7 | 109.1 | 113.0 | 109.1 | 107.2 |
| 40° | 75.5 | 76.0 | 78.9 | 76.5 | 75.5 |
| 42.5° | 54.6 | 54.6 | 56.0 | 55.1 | 54.6 |
| 45° | 39.0 | 39.5 | 40.4 | 40.0 | 39.5 |
| 47.5° | 27.8 | 28.7 | 28.7 | 29.2 | 27.3 |
| 50° | 16.6 | 20.5 | 21.0 | 20.5 | 16.6 |
| 52.5° | 8.8 | 12.2 | 15.1 | 12.2 | 8.8 |
| 55° | 5.4 | 7.3 | 10.2 | 7.3 | 5.8 |
| 57.5° | 5.4 | 5.4 | 6.8 | 5.8 | 5.4 |
| 60° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 62.5° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 65° | 4.9 | 5.4 | 5.4 | 5.4 | 4.9 |
| 67.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 70° | 4.9 | 4.9 | 4.4 | 4.9 | 4.9 |
| 72.5° | 4.4 | 4.4 | 3.9 | 4.4 | 4.4 |
| 75° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 77.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 80° | 2.4 | 2.4 | 1.9 | 2.4 | 2.4 |
| 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)