

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: P283882

Luminaire Tested: **LDA2B108027D010 EU2B10WFL558027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283882
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: LDA2B108027D010 EU2B10WFL558027 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 968.1 lumens
Efficiency: N/A
Efficacy: 96.8 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

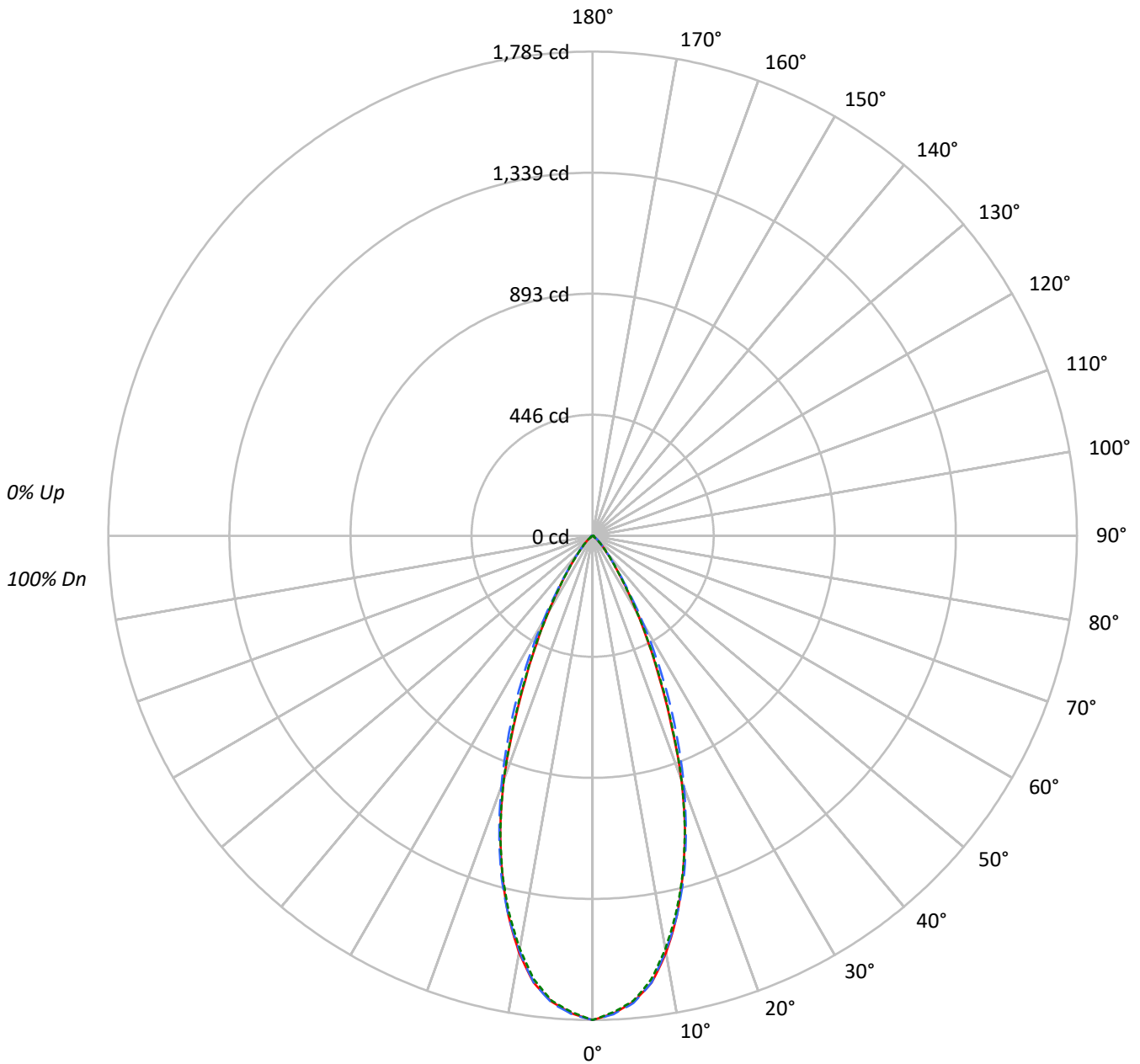
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| 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° | 880651 | 880651 | 880651 |
| 5° | 854151 | 856231 | 852368 |
| 10° | 781868 | 778712 | 774053 |
| 15° | 657662 | 663740 | 656589 |
| 20° | 502921 | 516257 | 502081 |
| 25° | 319379 | 360043 | 325584 |
| 30° | 185717 | 209701 | 189022 |
| 35° | 98172 | 104436 | 98473 |
| 40° | 51845 | 54164 | 51845 |
| 45° | 28955 | 30072 | 29374 |
| 50° | 13585 | 17116 | 13585 |
| 55° | 4903 | 9376 | 5333 |
| 60° | 5624 | 5624 | 5624 |
| 65° | 6070 | 6654 | 6070 |
| 70° | 7501 | 6780 | 7501 |
| 75° | 6862 | 6862 | 6862 |
| 80° | 7387 | 5966 | 7387 |
| 85° | 5661 | 5661 | 5661 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 159.3 | 16.5 |
| 10°-20° | 354.8 | 36.6 |
| 20°-30° | 286.5 | 29.6 |
| 30°-40° | 113.2 | 11.7 |
| 40°-50° | 34.8 | 3.6 |
| 50°-60° | 9.0 | 0.9 |
| 60°-70° | 5.4 | 0.6 |
| 70°-80° | 4.0 | 0.4 |
| 80°-90° | 1.2 | 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° | 800.6 | 82.7 |
| 0°-40° | 913.8 | 94.4 |
| 0°-60° | 957.6 | 98.9 |
| 0°-90° | 968.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 968.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1785 | 1785 | 1785 | 1785 | 1785 | |
| 5° | 1725 | 1728 | 1729 | 1725 | 1721 | 160 |
| 15° | 1288 | 1291 | 1300 | 1294 | 1286 | 354 |
| 25° | 587 | 615 | 661 | 626 | 598 | 273 |
| 35° | 163 | 168 | 173 | 168 | 164 | 109 |
| 45° | 42 | 42 | 43 | 43 | 42 | 34 |
| 55° | 6 | 8 | 11 | 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° | 1785.0 | 1785.0 | 1785.0 | 1785.0 | 1785.0 |
| 2.5° | 1762.6 | 1763.7 | 1765.2 | 1763.2 | 1758.0 |
| 5° | 1724.7 | 1727.8 | 1728.9 | 1725.2 | 1721.1 |
| 7.5° | 1662.4 | 1658.8 | 1661.9 | 1655.7 | 1650.5 |
| 10° | 1560.7 | 1556.0 | 1554.4 | 1545.1 | 1545.1 |
| 12.5° | 1435.0 | 1433.5 | 1434.5 | 1429.8 | 1422.6 |
| 15° | 1287.6 | 1291.2 | 1299.5 | 1294.3 | 1285.5 |
| 17.5° | 1131.3 | 1136.5 | 1143.8 | 1142.2 | 1130.3 |
| 20° | 957.9 | 973.0 | 983.3 | 973.5 | 956.3 |
| 22.5° | 760.6 | 792.8 | 819.3 | 798.5 | 770.5 |
| 25° | 586.7 | 614.7 | 661.4 | 626.1 | 598.1 |
| 27.5° | 444.9 | 465.2 | 507.8 | 473.0 | 453.8 |
| 30° | 326.0 | 338.5 | 368.1 | 345.3 | 331.8 |
| 32.5° | 233.1 | 241.9 | 254.4 | 240.9 | 234.2 |
| 35° | 163.0 | 167.7 | 173.4 | 168.2 | 163.5 |
| 37.5° | 114.7 | 116.3 | 120.5 | 116.3 | 114.2 |
| 40° | 80.5 | 81.0 | 84.1 | 81.5 | 80.5 |
| 42.5° | 58.1 | 58.1 | 59.7 | 58.7 | 58.1 |
| 45° | 41.5 | 42.1 | 43.1 | 42.6 | 42.1 |
| 47.5° | 29.6 | 30.6 | 30.6 | 31.2 | 29.1 |
| 50° | 17.7 | 21.8 | 22.3 | 21.8 | 17.7 |
| 52.5° | 9.3 | 13.0 | 16.1 | 13.0 | 9.3 |
| 55° | 5.7 | 7.8 | 10.9 | 7.8 | 6.2 |
| 57.5° | 5.7 | 5.7 | 7.3 | 6.2 | 5.7 |
| 60° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 62.5° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 65° | 5.2 | 5.7 | 5.7 | 5.7 | 5.2 |
| 67.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 70° | 5.2 | 5.2 | 4.7 | 5.2 | 5.2 |
| 72.5° | 4.7 | 4.7 | 4.2 | 4.7 | 4.7 |
| 75° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 77.5° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 80° | 2.6 | 2.6 | 2.1 | 2.6 | 2.6 |
| 82.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 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)