

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: P283962

Luminaire Tested: **LDA2B10D2WD010 EU2B10WFL55D2W 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283962
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: LDA2B10D2WD010 EU2B10WFL55D2W 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 672.3 lumens
Efficiency: N/A
Efficacy: 67.2 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

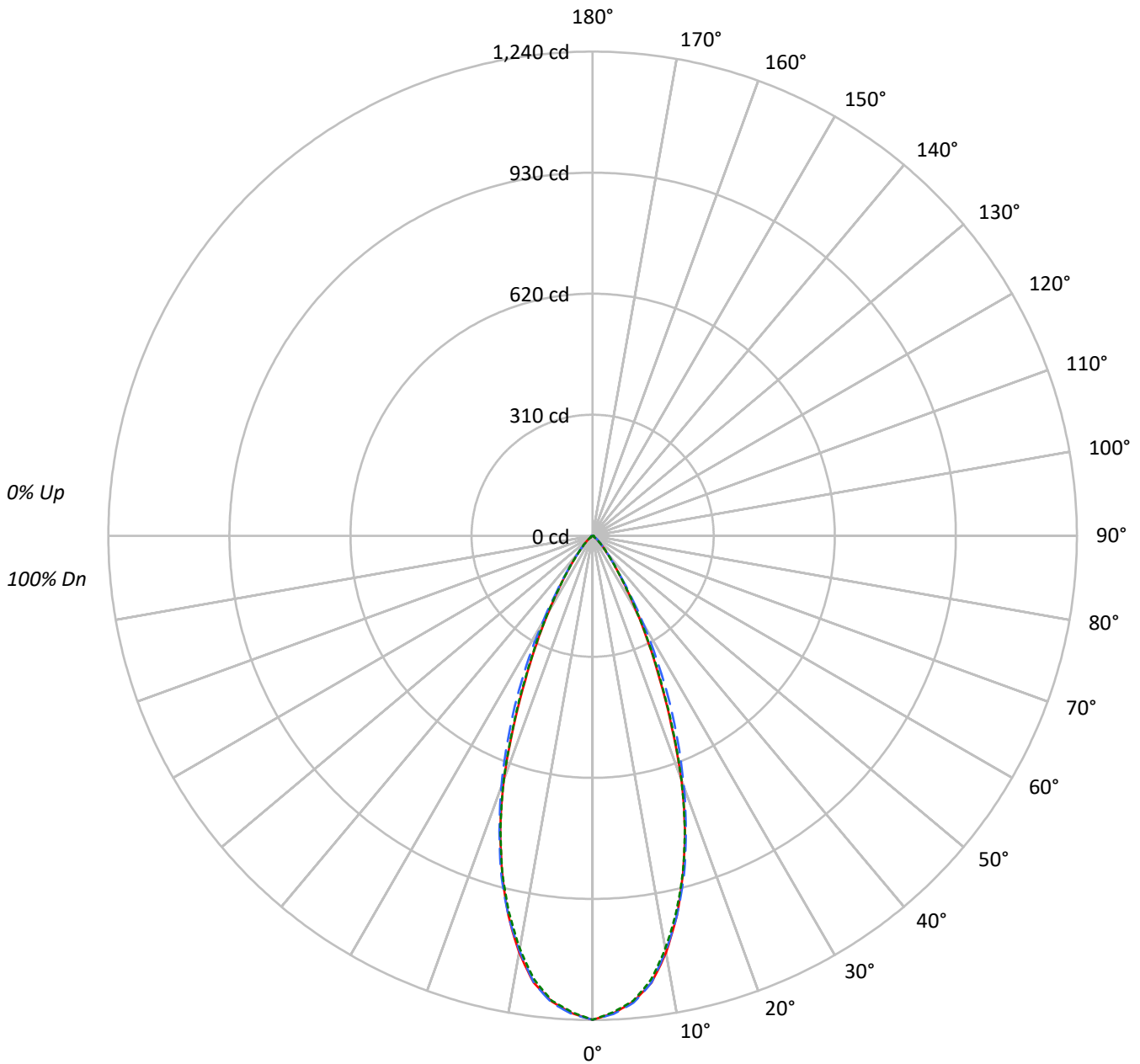
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 611522 | 611522 | 611522 |
| 5° | 593157 | 594593 | 591918 |
| 10° | 542954 | 540800 | 537544 |
| 15° | 456676 | 460915 | 455961 |
| 20° | 349246 | 358539 | 348669 |
| 25° | 221774 | 250027 | 226075 |
| 30° | 128977 | 145612 | 131255 |
| 35° | 68178 | 72515 | 68419 |
| 40° | 36002 | 37612 | 36002 |
| 45° | 20094 | 20862 | 20373 |
| 50° | 9441 | 11897 | 9441 |
| 55° | 3441 | 6537 | 3699 |
| 60° | 3947 | 3947 | 3947 |
| 65° | 4203 | 4670 | 4203 |
| 70° | 5193 | 4616 | 5193 |
| 75° | 4766 | 4766 | 4766 |
| 80° | 5114 | 3978 | 5114 |
| 85° | 3962 | 3962 | 3962 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.6 | 16.5 |
| 10°-20° | 246.4 | 36.6 |
| 20°-30° | 199.0 | 29.6 |
| 30°-40° | 78.6 | 11.7 |
| 40°-50° | 24.1 | 3.6 |
| 50°-60° | 6.2 | 0.9 |
| 60°-70° | 3.8 | 0.6 |
| 70°-80° | 2.8 | 0.4 |
| 80°-90° | 0.8 | 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° | 556.0 | 82.7 |
| 0°-40° | 634.6 | 94.4 |
| 0°-60° | 665.0 | 98.9 |
| 0°-90° | 672.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 672.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1240 | 1240 | 1240 | 1240 | 1240 | |
| 5° | 1198 | 1200 | 1201 | 1198 | 1195 | 111 |
| 15° | 894 | 897 | 902 | 899 | 893 | 246 |
| 25° | 407 | 427 | 459 | 435 | 415 | 190 |
| 35° | 113 | 116 | 120 | 117 | 114 | 76 |
| 45° | 29 | 29 | 30 | 30 | 29 | 24 |
| 55° | 4 | 5 | 8 | 5 | 4 | 5 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 75° | 2 | 2 | 2 | 2 | 2 | 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° | 1239.5 | 1239.5 | 1239.5 | 1239.5 | 1239.5 |
| 2.5° | 1224.0 | 1224.8 | 1225.8 | 1224.4 | 1220.8 |
| 5° | 1197.7 | 1199.9 | 1200.6 | 1198.1 | 1195.2 |
| 7.5° | 1154.5 | 1151.9 | 1154.1 | 1149.8 | 1146.2 |
| 10° | 1083.8 | 1080.5 | 1079.5 | 1073.0 | 1073.0 |
| 12.5° | 996.5 | 995.5 | 996.2 | 992.9 | 987.9 |
| 15° | 894.1 | 896.7 | 902.4 | 898.8 | 892.7 |
| 17.5° | 785.6 | 789.2 | 794.3 | 793.2 | 784.9 |
| 20° | 665.2 | 675.7 | 682.9 | 676.0 | 664.1 |
| 22.5° | 528.2 | 550.5 | 568.9 | 554.5 | 535.0 |
| 25° | 407.4 | 426.9 | 459.3 | 434.8 | 415.3 |
| 27.5° | 309.0 | 323.0 | 352.6 | 328.5 | 315.1 |
| 30° | 226.4 | 235.1 | 255.6 | 239.8 | 230.4 |
| 32.5° | 161.9 | 168.0 | 176.7 | 167.3 | 162.6 |
| 35° | 113.2 | 116.5 | 120.4 | 116.8 | 113.6 |
| 37.5° | 79.7 | 80.8 | 83.6 | 80.8 | 79.3 |
| 40° | 55.9 | 56.2 | 58.4 | 56.6 | 55.9 |
| 42.5° | 40.4 | 40.4 | 41.5 | 40.7 | 40.4 |
| 45° | 28.8 | 29.2 | 29.9 | 29.6 | 29.2 |
| 47.5° | 20.6 | 21.3 | 21.3 | 21.6 | 20.2 |
| 50° | 12.3 | 15.1 | 15.5 | 15.1 | 12.3 |
| 52.5° | 6.5 | 9.0 | 11.2 | 9.0 | 6.5 |
| 55° | 4.0 | 5.4 | 7.6 | 5.4 | 4.3 |
| 57.5° | 4.0 | 4.0 | 5.0 | 4.3 | 4.0 |
| 60° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 62.5° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 65° | 3.6 | 4.0 | 4.0 | 4.0 | 3.6 |
| 67.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 70° | 3.6 | 3.6 | 3.2 | 3.6 | 3.6 |
| 72.5° | 3.2 | 3.2 | 2.9 | 3.2 | 3.2 |
| 75° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 77.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 80° | 1.8 | 1.8 | 1.4 | 1.8 | 1.8 |
| 82.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 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)