

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: P283963

Luminaire Tested: **LDA2B10D2WD010 EU2B10WFL55D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283963
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 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 683.9 lumens
Efficiency: N/A
Efficacy: 68.4 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

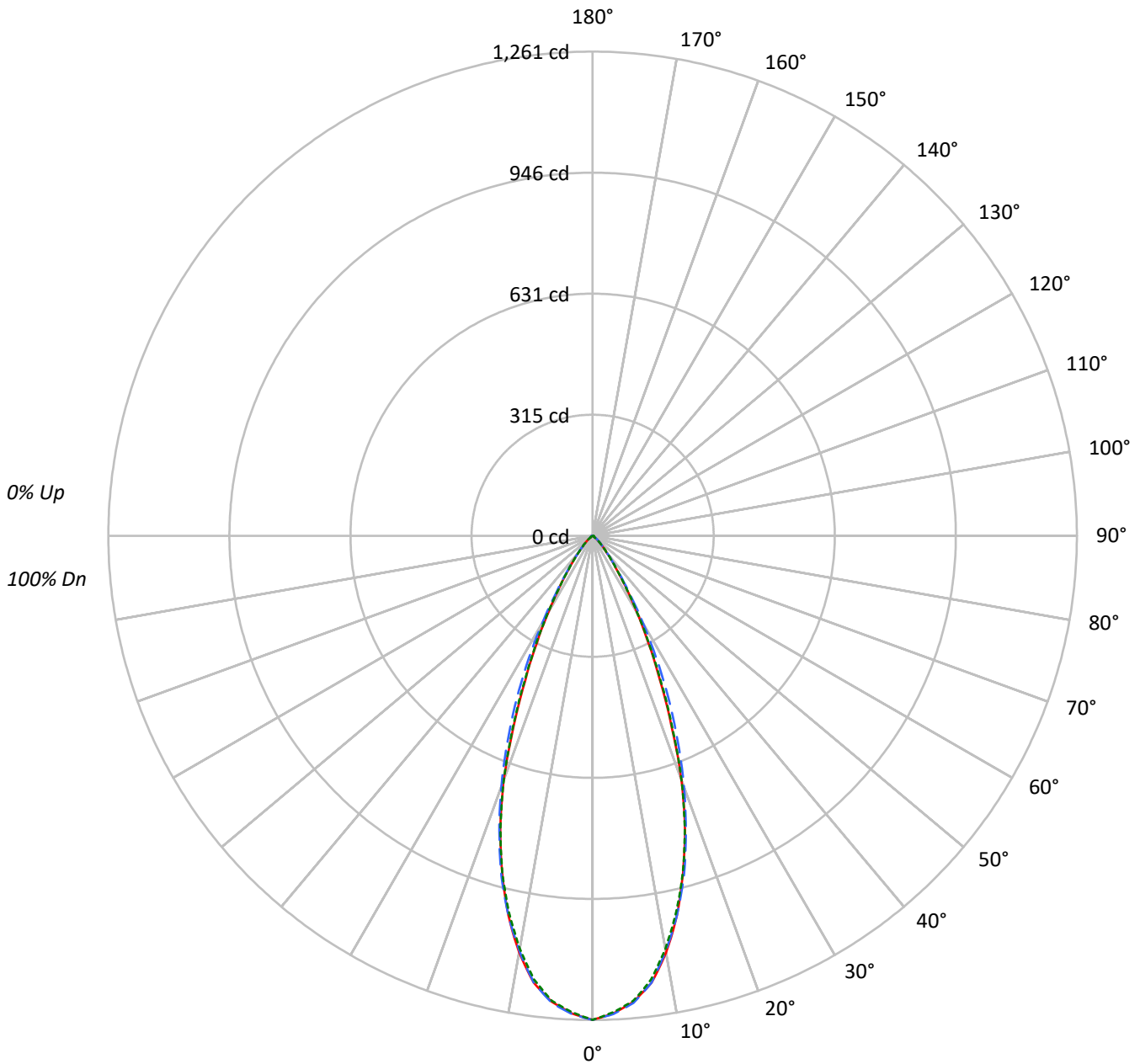
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | | | | | 94 | | | |
| 2 | 109 | 104 | 101 | 98 | 107 | 103 | 99 | 96 | 100 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 89 | | | | | 89 | | | |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 90 | 87 | 85 | 84 | | | | | 84 | | | |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 83 | 90 | 86 | 82 | 88 | 84 | 81 | 86 | 83 | 81 | 79 | | | | | 79 | | | |
| 5 | 95 | 88 | 82 | 79 | 94 | 87 | 82 | 78 | 85 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | | | | | 75 | | | |
| 6 | 91 | 83 | 78 | 74 | 90 | 82 | 77 | 74 | 81 | 77 | 73 | 80 | 76 | 73 | 78 | 75 | 72 | 71 | | | | | 71 | | | |
| 7 | 87 | 79 | 74 | 70 | 86 | 78 | 73 | 70 | 77 | 73 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 67 | | | | | 67 | | | |
| 8 | 84 | 75 | 70 | 66 | 83 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 68 | 65 | 64 | | | | | 64 | | | |
| 9 | 81 | 72 | 67 | 63 | 80 | 71 | 66 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 62 | 61 | | | | | 61 | | | |
| 10 | 77 | 69 | 64 | 60 | 76 | 68 | 63 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 66 | 62 | 60 | 58 | | | | | 58 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 622080 | 622080 | 622080 |
| 5° | 603408 | 604844 | 602121 |
| 10° | 552322 | 550118 | 546812 |
| 15° | 464592 | 468883 | 463826 |
| 20° | 355284 | 364682 | 354707 |
| 25° | 225585 | 254382 | 229994 |
| 30° | 131198 | 148118 | 133534 |
| 35° | 69383 | 73780 | 69564 |
| 40° | 36581 | 38256 | 36581 |
| 45° | 20443 | 21211 | 20722 |
| 50° | 9594 | 12127 | 9594 |
| 55° | 3441 | 6623 | 3785 |
| 60° | 3947 | 3947 | 3947 |
| 65° | 4319 | 4670 | 4319 |
| 70° | 5337 | 4760 | 5337 |
| 75° | 4956 | 4956 | 4956 |
| 80° | 5114 | 4262 | 5114 |
| 85° | 3962 | 3962 | 3962 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.6 | 16.5 |
| 10°-20° | 250.6 | 36.6 |
| 20°-30° | 202.4 | 29.6 |
| 30°-40° | 80.0 | 11.7 |
| 40°-50° | 24.6 | 3.6 |
| 50°-60° | 6.3 | 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° | 565.6 | 82.7 |
| 0°-40° | 645.6 | 94.4 |
| 0°-60° | 676.4 | 98.9 |
| 0°-90° | 683.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 683.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1261 | 1261 | 1261 | 1261 | 1261 | |
| 5° | 1218 | 1221 | 1221 | 1219 | 1216 | 113 |
| 15° | 910 | 912 | 918 | 914 | 908 | 250 |
| 25° | 414 | 434 | 467 | 442 | 422 | 193 |
| 35° | 115 | 118 | 122 | 119 | 116 | 77 |
| 45° | 29 | 30 | 30 | 30 | 30 | 24 |
| 55° | 4 | 6 | 8 | 6 | 4 | 5 |
| 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° | 1260.9 | 1260.9 | 1260.9 | 1260.9 | 1260.9 |
| 2.5° | 1245.1 | 1245.9 | 1247.0 | 1245.5 | 1241.8 |
| 5° | 1218.4 | 1220.6 | 1221.3 | 1218.7 | 1215.8 |
| 7.5° | 1174.4 | 1171.8 | 1174.0 | 1169.6 | 1165.9 |
| 10° | 1102.5 | 1099.2 | 1098.1 | 1091.5 | 1091.5 |
| 12.5° | 1013.7 | 1012.6 | 1013.4 | 1010.1 | 1004.9 |
| 15° | 909.6 | 912.1 | 918.0 | 914.3 | 908.1 |
| 17.5° | 799.2 | 802.8 | 808.0 | 806.9 | 798.4 |
| 20° | 676.7 | 687.3 | 694.6 | 687.7 | 675.6 |
| 22.5° | 537.3 | 560.0 | 578.7 | 564.1 | 544.3 |
| 25° | 414.4 | 434.2 | 467.3 | 442.3 | 422.5 |
| 27.5° | 314.3 | 328.6 | 358.7 | 334.1 | 320.5 |
| 30° | 230.3 | 239.1 | 260.0 | 243.9 | 234.4 |
| 32.5° | 164.7 | 170.9 | 179.7 | 170.2 | 165.4 |
| 35° | 115.2 | 118.5 | 122.5 | 118.8 | 115.5 |
| 37.5° | 81.1 | 82.2 | 85.1 | 82.2 | 80.7 |
| 40° | 56.8 | 57.2 | 59.4 | 57.6 | 56.8 |
| 42.5° | 41.1 | 41.1 | 42.2 | 41.4 | 41.1 |
| 45° | 29.3 | 29.7 | 30.4 | 30.1 | 29.7 |
| 47.5° | 20.9 | 21.6 | 21.6 | 22.0 | 20.5 |
| 50° | 12.5 | 15.4 | 15.8 | 15.4 | 12.5 |
| 52.5° | 6.6 | 9.2 | 11.4 | 9.2 | 6.6 |
| 55° | 4.0 | 5.5 | 7.7 | 5.5 | 4.4 |
| 57.5° | 4.0 | 4.0 | 5.1 | 4.4 | 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° | 3.7 | 4.0 | 4.0 | 4.0 | 3.7 |
| 67.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 70° | 3.7 | 3.7 | 3.3 | 3.7 | 3.7 |
| 72.5° | 3.3 | 3.3 | 2.9 | 3.3 | 3.3 |
| 75° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 77.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 80° | 1.8 | 1.8 | 1.5 | 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)