

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: P315681

Luminaire Tested: **LDA2B10WFL9040D010 PIN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315681
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: LDA2B10WFL9040D010 PIN1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj PinHole, Black oculus, matte white finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 768.5 lumens
Efficiency: N/A
Efficacy: 76.8 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

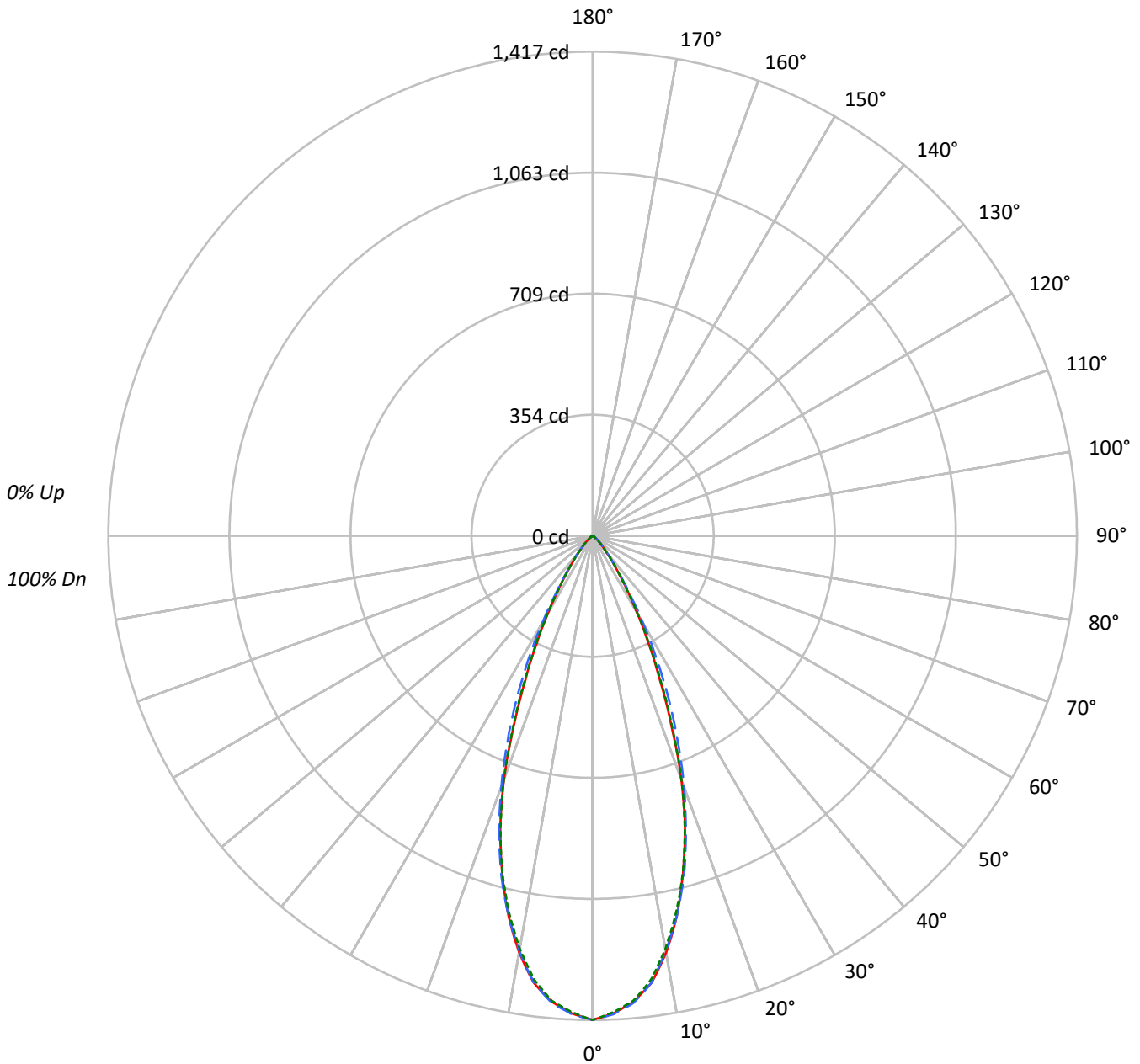
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 699044 | 699044 | 699044 |
| 5° | 678042 | 679676 | 676606 |
| 10° | 620655 | 618150 | 614443 |
| 15° | 522054 | 526906 | 521185 |
| 20° | 399229 | 409834 | 398599 |
| 25° | 253511 | 285846 | 258464 |
| 30° | 147435 | 166462 | 150055 |
| 35° | 77935 | 82934 | 78176 |
| 40° | 41154 | 43022 | 41154 |
| 45° | 23025 | 23862 | 23304 |
| 50° | 10745 | 13585 | 10745 |
| 55° | 3871 | 7483 | 4215 |
| 60° | 4440 | 4440 | 4440 |
| 65° | 4786 | 5253 | 4786 |
| 70° | 5914 | 5337 | 5914 |
| 75° | 5528 | 5528 | 5528 |
| 80° | 5966 | 4546 | 5966 |
| 85° | 4529 | 4529 | 4529 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.5 | 16.5 |
| 10°-20° | 281.6 | 36.6 |
| 20°-30° | 227.4 | 29.6 |
| 30°-40° | 89.9 | 11.7 |
| 40°-50° | 27.6 | 3.6 |
| 50°-60° | 7.1 | 0.9 |
| 60°-70° | 4.3 | 0.6 |
| 70°-80° | 3.2 | 0.4 |
| 80°-90° | 0.9 | 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° | 635.5 | 82.7 |
| 0°-40° | 725.4 | 94.4 |
| 0°-60° | 760.1 | 98.9 |
| 0°-90° | 768.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 768.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1417 | 1417 | 1417 | 1417 | 1417 | |
| 5° | 1369 | 1372 | 1372 | 1370 | 1366 | 127 |
| 15° | 1022 | 1025 | 1032 | 1028 | 1020 | 281 |
| 25° | 466 | 488 | 525 | 497 | 475 | 217 |
| 35° | 129 | 133 | 138 | 134 | 130 | 87 |
| 45° | 33 | 33 | 34 | 34 | 33 | 27 |
| 55° | 4 | 6 | 9 | 6 | 5 | 6 |
| 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° | 1416.9 | 1416.9 | 1416.9 | 1416.9 | 1416.9 |
| 2.5° | 1399.2 | 1400.0 | 1401.3 | 1399.6 | 1395.5 |
| 5° | 1369.1 | 1371.6 | 1372.4 | 1369.5 | 1366.2 |
| 7.5° | 1319.7 | 1316.8 | 1319.2 | 1314.3 | 1310.2 |
| 10° | 1238.9 | 1235.2 | 1233.9 | 1226.5 | 1226.5 |
| 12.5° | 1139.1 | 1137.9 | 1138.7 | 1135.0 | 1129.3 |
| 15° | 1022.1 | 1025.0 | 1031.6 | 1027.5 | 1020.4 |
| 17.5° | 898.0 | 902.2 | 907.9 | 906.7 | 897.2 |
| 20° | 760.4 | 772.3 | 780.6 | 772.8 | 759.2 |
| 22.5° | 603.8 | 629.3 | 650.3 | 633.9 | 611.6 |
| 25° | 465.7 | 488.0 | 525.1 | 497.0 | 474.8 |
| 27.5° | 353.2 | 369.3 | 403.1 | 375.5 | 360.2 |
| 30° | 258.8 | 268.7 | 292.2 | 274.1 | 263.4 |
| 32.5° | 185.0 | 192.1 | 201.9 | 191.2 | 185.9 |
| 35° | 129.4 | 133.1 | 137.7 | 133.5 | 129.8 |
| 37.5° | 91.1 | 92.3 | 95.6 | 92.3 | 90.7 |
| 40° | 63.9 | 64.3 | 66.8 | 64.7 | 63.9 |
| 42.5° | 46.2 | 46.2 | 47.4 | 46.6 | 46.2 |
| 45° | 33.0 | 33.4 | 34.2 | 33.8 | 33.4 |
| 47.5° | 23.5 | 24.3 | 24.3 | 24.7 | 23.1 |
| 50° | 14.0 | 17.3 | 17.7 | 17.3 | 14.0 |
| 52.5° | 7.4 | 10.3 | 12.8 | 10.3 | 7.4 |
| 55° | 4.5 | 6.2 | 8.7 | 6.2 | 4.9 |
| 57.5° | 4.5 | 4.5 | 5.8 | 4.9 | 4.5 |
| 60° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 62.5° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 65° | 4.1 | 4.5 | 4.5 | 4.5 | 4.1 |
| 67.5° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 70° | 4.1 | 4.1 | 3.7 | 4.1 | 4.1 |
| 72.5° | 3.7 | 3.7 | 3.3 | 3.7 | 3.7 |
| 75° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 77.5° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 80° | 2.1 | 2.1 | 1.6 | 2.1 | 2.1 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 85° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 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)