

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: P315781

Luminaire Tested: **LDA2B15WFL9727D010 PIN1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315781
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: LDA2B15WFL9727D010 PIN1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj PinHole, Black oculus black finish
Light Source: -
Ballast/Driver: -

Summary

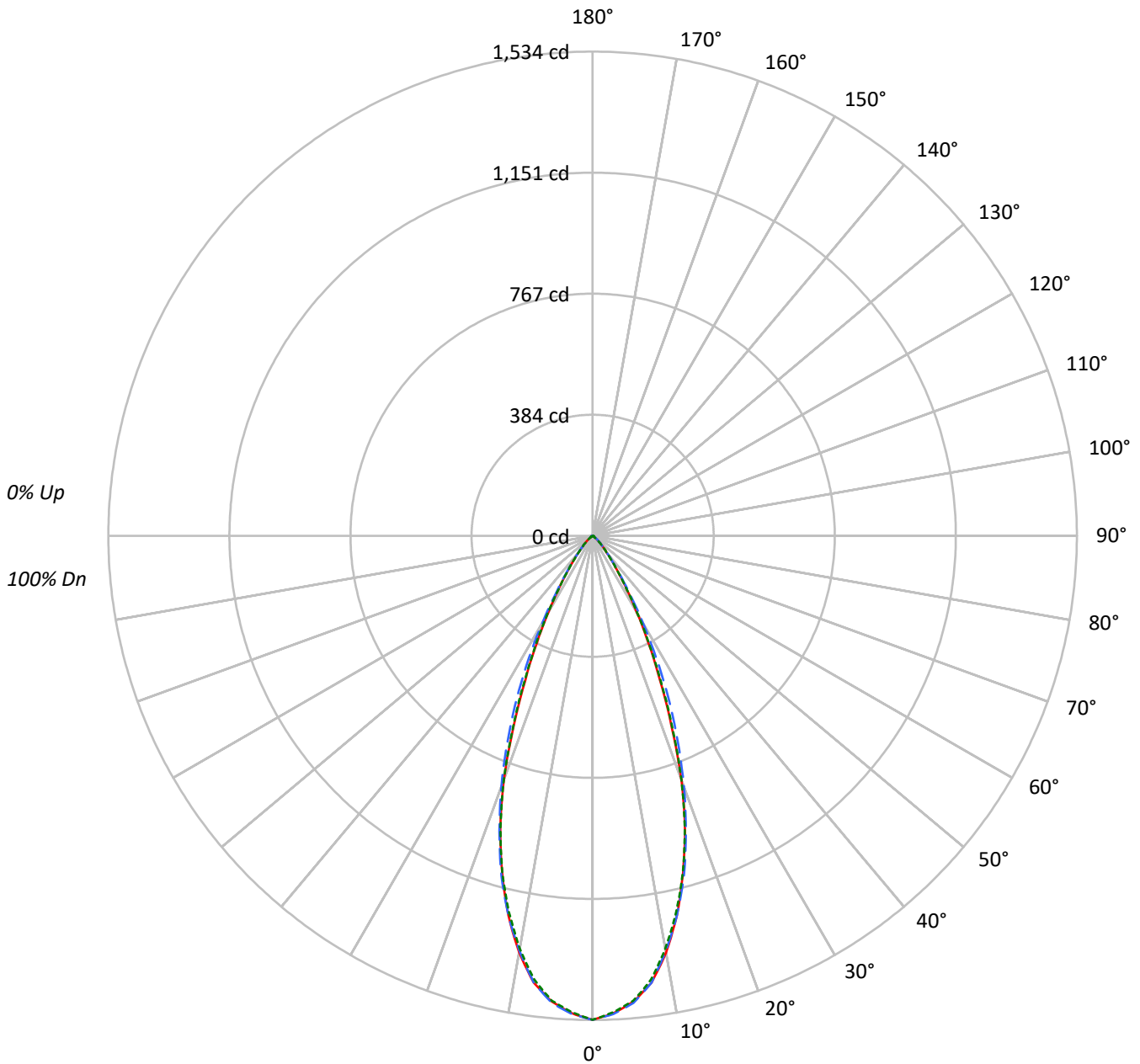
Lumens per Lamp: N/A
Luminaire Lumens: 831.8 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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° | 756620 | 756620 | 756620 |
| 5° | 733906 | 735639 | 732321 |
| 10° | 671754 | 669099 | 665041 |
| 15° | 565060 | 570270 | 564141 |
| 20° | 432095 | 443593 | 431413 |
| 25° | 274414 | 309362 | 279749 |
| 30° | 159569 | 180191 | 162360 |
| 35° | 84380 | 89740 | 84621 |
| 40° | 44503 | 46564 | 44503 |
| 45° | 24909 | 25816 | 25188 |
| 50° | 11667 | 14737 | 11667 |
| 55° | 4215 | 8085 | 4645 |
| 60° | 4835 | 4835 | 4835 |
| 65° | 5253 | 5720 | 5253 |
| 70° | 6491 | 5770 | 6491 |
| 75° | 5909 | 5909 | 5909 |
| 80° | 6251 | 5114 | 6251 |
| 85° | 5095 | 5095 | 5095 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 136.9 | 16.5 |
| 10°-20° | 304.8 | 36.6 |
| 20°-30° | 246.2 | 29.6 |
| 30°-40° | 97.3 | 11.7 |
| 40°-50° | 29.9 | 3.6 |
| 50°-60° | 7.7 | 0.9 |
| 60°-70° | 4.7 | 0.6 |
| 70°-80° | 3.4 | 0.4 |
| 80°-90° | 1.0 | 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° | 687.9 | 82.7 |
| 0°-40° | 785.2 | 94.4 |
| 0°-60° | 822.7 | 98.9 |
| 0°-90° | 831.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 831.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1534 | 1534 | 1534 | 1534 | 1534 | |
| 5° | 1482 | 1484 | 1485 | 1482 | 1479 | 137 |
| 15° | 1106 | 1109 | 1116 | 1112 | 1104 | 304 |
| 25° | 504 | 528 | 568 | 538 | 514 | 235 |
| 35° | 140 | 144 | 149 | 144 | 140 | 94 |
| 45° | 36 | 36 | 37 | 37 | 36 | 29 |
| 55° | 5 | 7 | 9 | 7 | 5 | 6 |
| 65° | 4 | 5 | 5 | 5 | 4 | 5 |
| 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° | 1533.6 | 1533.6 | 1533.6 | 1533.6 | 1533.6 |
| 2.5° | 1514.4 | 1515.3 | 1516.7 | 1514.9 | 1510.4 |
| 5° | 1481.9 | 1484.5 | 1485.4 | 1482.3 | 1478.7 |
| 7.5° | 1428.3 | 1425.2 | 1427.9 | 1422.5 | 1418.1 |
| 10° | 1340.9 | 1336.9 | 1335.6 | 1327.5 | 1327.5 |
| 12.5° | 1233.0 | 1231.6 | 1232.5 | 1228.5 | 1222.3 |
| 15° | 1106.3 | 1109.4 | 1116.5 | 1112.1 | 1104.5 |
| 17.5° | 972.0 | 976.5 | 982.7 | 981.4 | 971.1 |
| 20° | 823.0 | 835.9 | 844.9 | 836.4 | 821.7 |
| 22.5° | 653.5 | 681.2 | 703.9 | 686.1 | 662.0 |
| 25° | 504.1 | 528.2 | 568.3 | 538.0 | 513.9 |
| 27.5° | 382.3 | 399.7 | 436.3 | 406.4 | 389.9 |
| 30° | 280.1 | 290.8 | 316.3 | 296.6 | 285.0 |
| 32.5° | 200.3 | 207.9 | 218.6 | 207.0 | 201.2 |
| 35° | 140.1 | 144.1 | 149.0 | 144.5 | 140.5 |
| 37.5° | 98.6 | 99.9 | 103.5 | 99.9 | 98.1 |
| 40° | 69.1 | 69.6 | 72.3 | 70.0 | 69.1 |
| 42.5° | 50.0 | 50.0 | 51.3 | 50.4 | 50.0 |
| 45° | 35.7 | 36.1 | 37.0 | 36.6 | 36.1 |
| 47.5° | 25.4 | 26.3 | 26.3 | 26.8 | 25.0 |
| 50° | 15.2 | 18.7 | 19.2 | 18.7 | 15.2 |
| 52.5° | 8.0 | 11.2 | 13.8 | 11.2 | 8.0 |
| 55° | 4.9 | 6.7 | 9.4 | 6.7 | 5.4 |
| 57.5° | 4.9 | 4.9 | 6.2 | 5.4 | 4.9 |
| 60° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 62.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 65° | 4.5 | 4.9 | 4.9 | 4.9 | 4.5 |
| 67.5° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 70° | 4.5 | 4.5 | 4.0 | 4.5 | 4.5 |
| 72.5° | 4.0 | 4.0 | 3.6 | 4.0 | 4.0 |
| 75° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 77.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 80° | 2.2 | 2.2 | 1.8 | 2.2 | 2.2 |
| 82.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 85° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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)