

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: P315765

Luminaire Tested: **LDA2B15WFL9040D010 PIN1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315765
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: LDA2B15WFL9040D010 PIN1MW
Description: PORTFOLIO 2IN ADJ 1500 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: 1022.5 lumens
Efficiency: N/A
Efficacy: 72.5 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

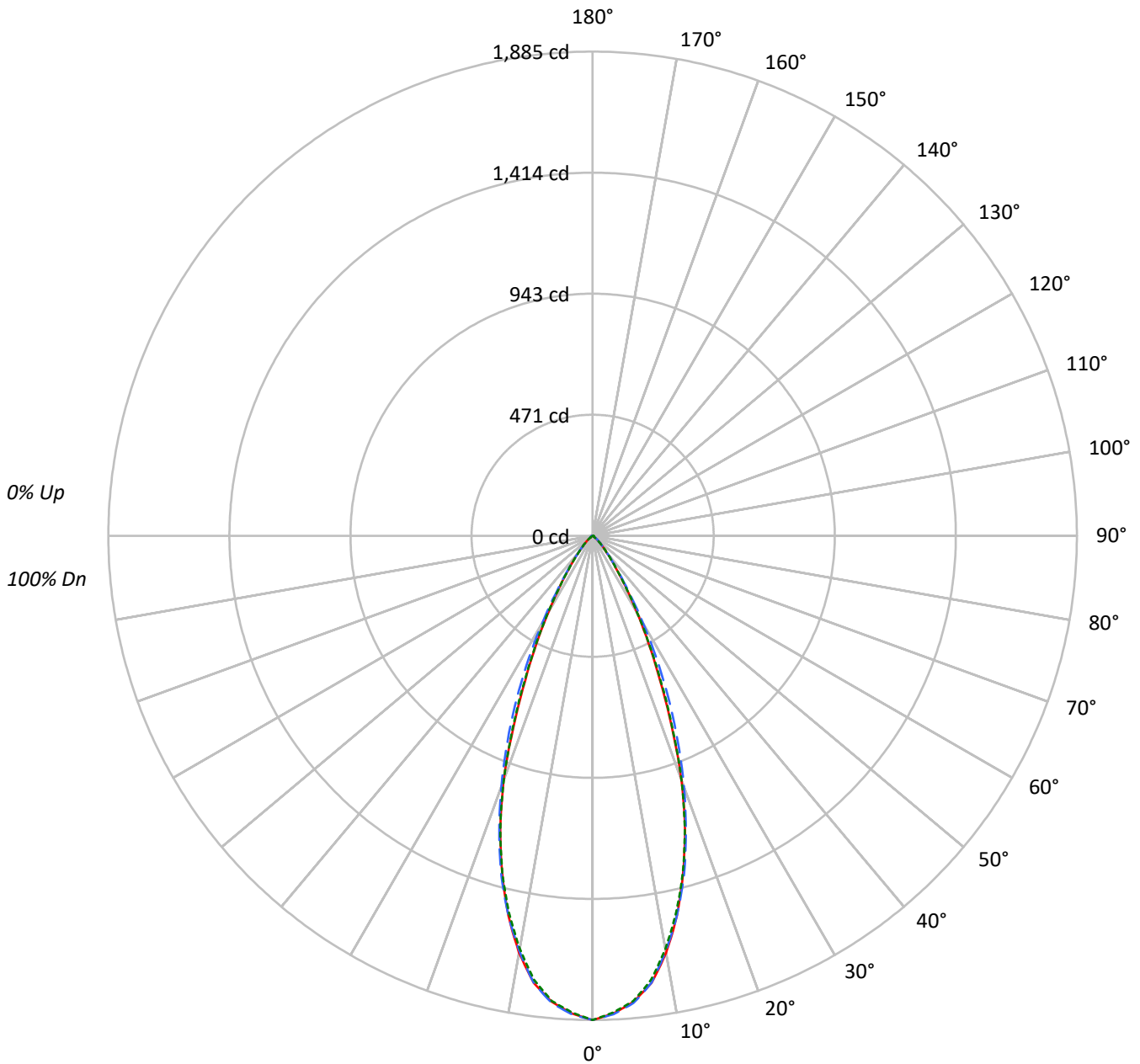
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 930135 | 930135 | 930135 |
| 5° | 902190 | 904369 | 900308 |
| 10° | 825803 | 822547 | 817587 |
| 15° | 694641 | 701077 | 693518 |
| 20° | 531220 | 545291 | 530327 |
| 25° | 337343 | 380293 | 343875 |
| 30° | 196200 | 221494 | 199618 |
| 35° | 103713 | 110338 | 104014 |
| 40° | 54743 | 57191 | 54743 |
| 45° | 30630 | 31746 | 30979 |
| 50° | 14276 | 18114 | 14276 |
| 55° | 5161 | 9892 | 5677 |
| 60° | 5920 | 5920 | 5920 |
| 65° | 6421 | 7004 | 6421 |
| 70° | 7934 | 7068 | 7934 |
| 75° | 7244 | 7244 | 7244 |
| 80° | 7671 | 6251 | 7671 |
| 85° | 6227 | 6227 | 6227 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.3 | 16.5 |
| 10°-20° | 374.7 | 36.6 |
| 20°-30° | 302.6 | 29.6 |
| 30°-40° | 119.6 | 11.7 |
| 40°-50° | 36.7 | 3.6 |
| 50°-60° | 9.5 | 0.9 |
| 60°-70° | 5.7 | 0.6 |
| 70°-80° | 4.2 | 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° | 845.6 | 82.7 |
| 0°-40° | 965.2 | 94.4 |
| 0°-60° | 1011.4 | 98.9 |
| 0°-90° | 1022.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1022.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1885 | 1885 | 1885 | 1885 | 1885 | |
| 5° | 1822 | 1825 | 1826 | 1822 | 1818 | 169 |
| 15° | 1360 | 1364 | 1373 | 1367 | 1358 | 374 |
| 25° | 620 | 649 | 699 | 661 | 632 | 288 |
| 35° | 172 | 177 | 183 | 178 | 173 | 115 |
| 45° | 44 | 44 | 46 | 45 | 44 | 36 |
| 55° | 6 | 8 | 12 | 8 | 7 | 8 |
| 65° | 6 | 6 | 6 | 6 | 6 | 6 |
| 75° | 4 | 4 | 4 | 4 | 4 | 4 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P315765

CATALOG NUMBER: LDA2B15WFL9040D010 PIN1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1885.3 | 1885.3 | 1885.3 | 1885.3 | 1885.3 |
| 2.5° | 1861.8 | 1862.9 | 1864.5 | 1862.3 | 1856.8 |
| 5° | 1821.7 | 1825.0 | 1826.1 | 1822.3 | 1817.9 |
| 7.5° | 1755.9 | 1752.1 | 1755.4 | 1748.8 | 1743.3 |
| 10° | 1648.4 | 1643.5 | 1641.9 | 1632.0 | 1632.0 |
| 12.5° | 1515.7 | 1514.1 | 1515.2 | 1510.3 | 1502.6 |
| 15° | 1360.0 | 1363.8 | 1372.6 | 1367.1 | 1357.8 |
| 17.5° | 1194.9 | 1200.4 | 1208.1 | 1206.4 | 1193.8 |
| 20° | 1011.8 | 1027.7 | 1038.6 | 1028.2 | 1010.1 |
| 22.5° | 803.4 | 837.4 | 865.4 | 843.4 | 813.8 |
| 25° | 619.7 | 649.3 | 698.6 | 661.4 | 631.7 |
| 27.5° | 470.0 | 491.4 | 536.3 | 499.6 | 479.3 |
| 30° | 344.4 | 357.5 | 388.8 | 364.7 | 350.4 |
| 32.5° | 246.2 | 255.5 | 268.7 | 254.5 | 247.3 |
| 35° | 172.2 | 177.1 | 183.2 | 177.7 | 172.7 |
| 37.5° | 121.2 | 122.8 | 127.2 | 122.8 | 120.6 |
| 40° | 85.0 | 85.5 | 88.8 | 86.1 | 85.0 |
| 42.5° | 61.4 | 61.4 | 63.1 | 62.0 | 61.4 |
| 45° | 43.9 | 44.4 | 45.5 | 45.0 | 44.4 |
| 47.5° | 31.3 | 32.4 | 32.4 | 32.9 | 30.7 |
| 50° | 18.6 | 23.0 | 23.6 | 23.0 | 18.6 |
| 52.5° | 9.9 | 13.7 | 17.0 | 13.7 | 9.9 |
| 55° | 6.0 | 8.2 | 11.5 | 8.2 | 6.6 |
| 57.5° | 6.0 | 6.0 | 7.7 | 6.6 | 6.0 |
| 60° | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 62.5° | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 65° | 5.5 | 6.0 | 6.0 | 6.0 | 5.5 |
| 67.5° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 |
| 70° | 5.5 | 5.5 | 4.9 | 5.5 | 5.5 |
| 72.5° | 4.9 | 4.9 | 4.4 | 4.9 | 4.9 |
| 75° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 77.5° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 80° | 2.7 | 2.7 | 2.2 | 2.7 | 2.7 |
| 82.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 85° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 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)