

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: P315712

Luminaire Tested: **LDA2B15WFL8027D010 PINW1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315712
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: LDA2B15WFL8027D010 PINW1MW
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: 1219.2 lumens
Efficiency: N/A
Efficacy: 86.5 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

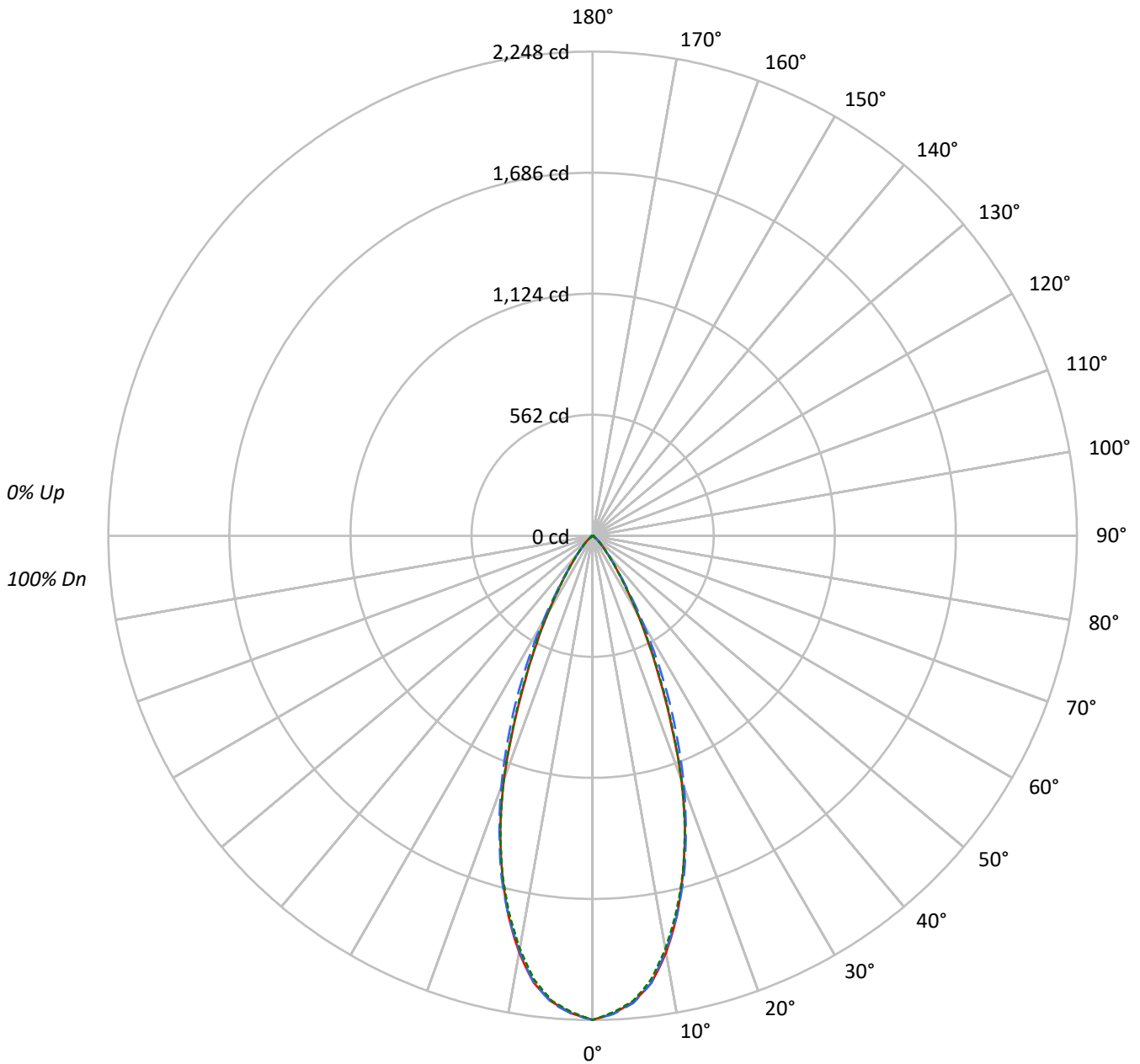
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 1108929 | 1108929 | 1108929 |
| 5° | 1075626 | 1078201 | 1073347 |
| 10° | 984562 | 980654 | 974743 |
| 15° | 828156 | 835817 | 826828 |
| 20° | 633337 | 650138 | 632287 |
| 25° | 402176 | 453401 | 410015 |
| 30° | 233913 | 264049 | 238014 |
| 35° | 123649 | 131539 | 124010 |
| 40° | 65241 | 68204 | 65241 |
| 45° | 36491 | 37886 | 36979 |
| 50° | 17039 | 21568 | 17039 |
| 55° | 6193 | 11784 | 6709 |
| 60° | 7104 | 7104 | 7104 |
| 65° | 7588 | 8405 | 7588 |
| 70° | 9376 | 8511 | 9376 |
| 75° | 8769 | 8769 | 8769 |
| 80° | 9376 | 7387 | 9376 |
| 85° | 7359 | 7359 | 7359 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 200.6 | 16.5 |
| 10°-20° | 446.7 | 36.6 |
| 20°-30° | 360.8 | 29.6 |
| 30°-40° | 142.6 | 11.7 |
| 40°-50° | 43.8 | 3.6 |
| 50°-60° | 11.3 | 0.9 |
| 60°-70° | 6.8 | 0.6 |
| 70°-80° | 5.0 | 0.4 |
| 80°-90° | 1.5 | 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° | 1008.2 | 82.7 |
| 0°-40° | 1150.8 | 94.4 |
| 0°-60° | 1205.9 | 98.9 |
| 0°-90° | 1219.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1219.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2248 | 2248 | 2248 | 2248 | 2248 | |
| 5° | 2172 | 2176 | 2177 | 2173 | 2167 | 201 |
| 15° | 1621 | 1626 | 1636 | 1630 | 1619 | 445 |
| 25° | 739 | 774 | 833 | 788 | 753 | 344 |
| 35° | 205 | 211 | 218 | 212 | 206 | 138 |
| 45° | 52 | 53 | 54 | 54 | 53 | 43 |
| 55° | 7 | 10 | 14 | 10 | 8 | 9 |
| 65° | 6 | 7 | 7 | 7 | 6 | 7 |
| 75° | 5 | 5 | 5 | 5 | 5 | 5 |
| 85° | 1 | 1 | 1 | 1 | 1 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2247.7 | 2247.7 | 2247.7 | 2247.7 | 2247.7 |
| 2.5° | 2219.6 | 2220.9 | 2222.9 | 2220.3 | 2213.8 |
| 5° | 2171.9 | 2175.8 | 2177.1 | 2172.6 | 2167.3 |
| 7.5° | 2093.5 | 2088.9 | 2092.8 | 2085.0 | 2078.4 |
| 10° | 1965.3 | 1959.4 | 1957.5 | 1945.7 | 1945.7 |
| 12.5° | 1807.1 | 1805.1 | 1806.4 | 1800.6 | 1791.4 |
| 15° | 1621.4 | 1626.0 | 1636.4 | 1629.9 | 1618.8 |
| 17.5° | 1424.6 | 1431.2 | 1440.3 | 1438.3 | 1423.3 |
| 20° | 1206.3 | 1225.2 | 1238.3 | 1225.9 | 1204.3 |
| 22.5° | 957.8 | 998.3 | 1031.7 | 1005.5 | 970.2 |
| 25° | 738.8 | 774.1 | 832.9 | 788.5 | 753.2 |
| 27.5° | 560.3 | 585.8 | 639.4 | 595.6 | 571.4 |
| 30° | 410.6 | 426.3 | 463.5 | 434.8 | 417.8 |
| 32.5° | 293.6 | 304.7 | 320.4 | 303.4 | 294.9 |
| 35° | 205.3 | 211.2 | 218.4 | 211.8 | 205.9 |
| 37.5° | 144.5 | 146.5 | 151.7 | 146.5 | 143.8 |
| 40° | 101.3 | 102.0 | 105.9 | 102.6 | 101.3 |
| 42.5° | 73.2 | 73.2 | 75.2 | 73.9 | 73.2 |
| 45° | 52.3 | 53.0 | 54.3 | 53.6 | 53.0 |
| 47.5° | 37.3 | 38.6 | 38.6 | 39.2 | 36.6 |
| 50° | 22.2 | 27.5 | 28.1 | 27.5 | 22.2 |
| 52.5° | 11.8 | 16.3 | 20.3 | 16.3 | 11.8 |
| 55° | 7.2 | 9.8 | 13.7 | 9.8 | 7.8 |
| 57.5° | 7.2 | 7.2 | 9.2 | 7.8 | 7.2 |
| 60° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 62.5° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 65° | 6.5 | 7.2 | 7.2 | 7.2 | 6.5 |
| 67.5° | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| 70° | 6.5 | 6.5 | 5.9 | 6.5 | 6.5 |
| 72.5° | 5.9 | 5.9 | 5.2 | 5.9 | 5.9 |
| 75° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 77.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 80° | 3.3 | 3.3 | 2.6 | 3.3 | 3.3 |
| 82.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 85° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 87.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)