

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: P315642

Luminaire Tested: **LDA2B10WFL8035D010 PINW1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315642
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: LDA2B10WFL8035D010 PINW1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj PinHole, White oculus, matte metallic silver finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 944.3 lumens
Efficiency: N/A
Efficacy: 94.4 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

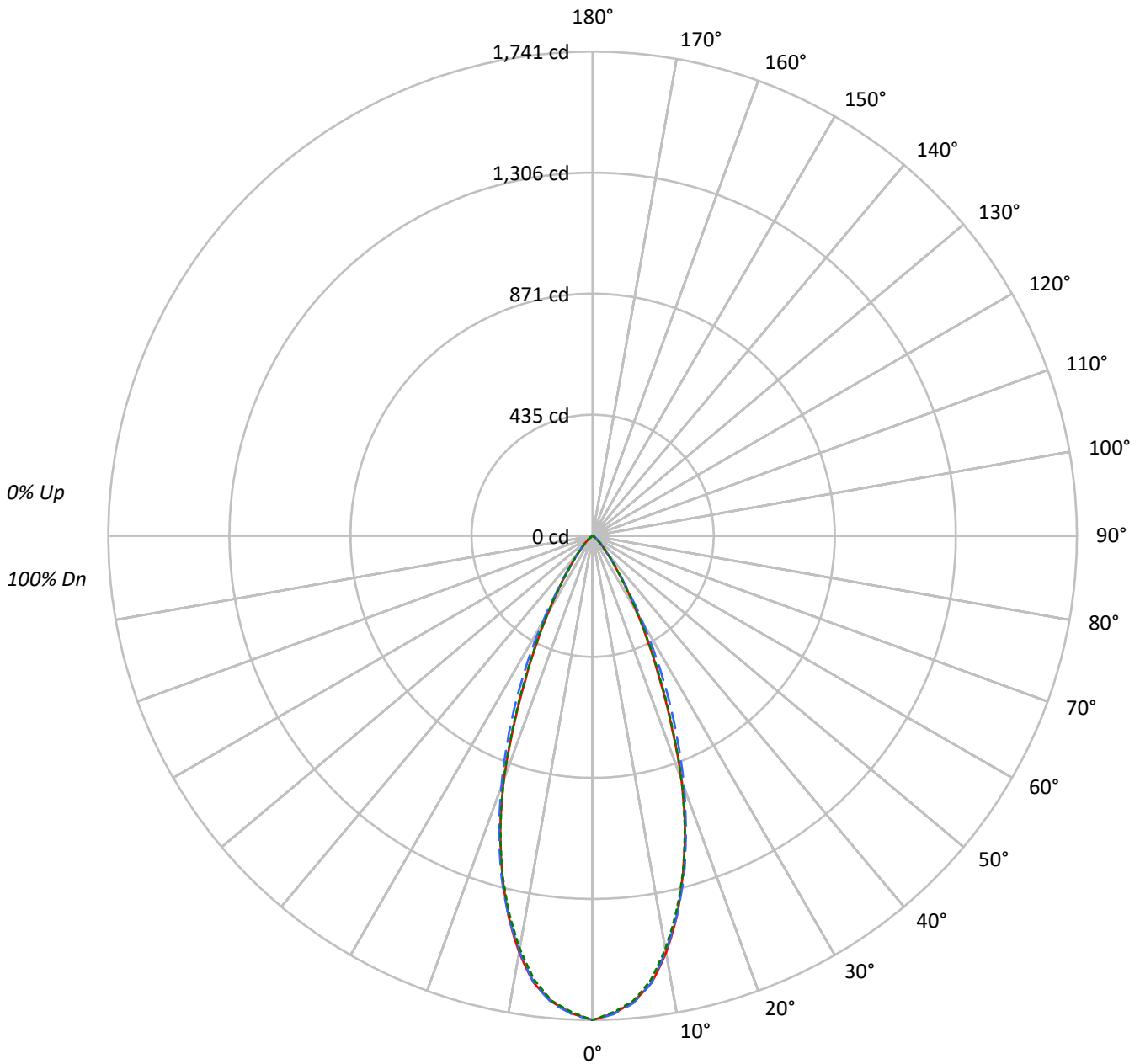
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 858943 | 858943 | 858943 |
| 5° | 833103 | 835134 | 831370 |
| 10° | 762581 | 759525 | 754966 |
| 15° | 641420 | 647396 | 640398 |
| 20° | 490531 | 503551 | 489743 |
| 25° | 311485 | 351170 | 317582 |
| 30° | 181160 | 204517 | 184350 |
| 35° | 95763 | 101846 | 96064 |
| 40° | 50557 | 52811 | 50557 |
| 45° | 28258 | 29304 | 28606 |
| 50° | 13202 | 16732 | 13202 |
| 55° | 4817 | 9118 | 5247 |
| 60° | 5526 | 5526 | 5526 |
| 65° | 5954 | 6537 | 5954 |
| 70° | 7357 | 6635 | 7357 |
| 75° | 6672 | 6672 | 6672 |
| 80° | 7103 | 5682 | 7103 |
| 85° | 5661 | 5661 | 5661 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.4 | 16.5 |
| 10°-20° | 346.0 | 36.6 |
| 20°-30° | 279.4 | 29.6 |
| 30°-40° | 110.4 | 11.7 |
| 40°-50° | 33.9 | 3.6 |
| 50°-60° | 8.8 | 0.9 |
| 60°-70° | 5.3 | 0.6 |
| 70°-80° | 3.9 | 0.4 |
| 80°-90° | 1.1 | 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° | 780.9 | 82.7 |
| 0°-40° | 891.3 | 94.4 |
| 0°-60° | 934.0 | 98.9 |
| 0°-90° | 944.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 944.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1741 | 1741 | 1741 | 1741 | 1741 | |
| 5° | 1682 | 1685 | 1686 | 1683 | 1679 | 156 |
| 15° | 1256 | 1259 | 1268 | 1262 | 1254 | 345 |
| 25° | 572 | 600 | 645 | 611 | 583 | 266 |
| 35° | 159 | 164 | 169 | 164 | 160 | 106 |
| 45° | 40 | 41 | 42 | 42 | 41 | 33 |
| 55° | 6 | 8 | 11 | 8 | 6 | 7 |
| 65° | 5 | 6 | 6 | 6 | 5 | 5 |
| 75° | 4 | 4 | 4 | 4 | 4 | 4 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P315642

CATALOG NUMBER: LDA2B10WFL8035D010 PINW1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1741.0 | 1741.0 | 1741.0 | 1741.0 | 1741.0 |
| 2.5° | 1719.2 | 1720.2 | 1721.7 | 1719.7 | 1714.6 |
| 5° | 1682.2 | 1685.3 | 1686.3 | 1682.7 | 1678.7 |
| 7.5° | 1621.5 | 1617.9 | 1620.9 | 1614.9 | 1609.8 |
| 10° | 1522.2 | 1517.6 | 1516.1 | 1507.0 | 1507.0 |
| 12.5° | 1399.7 | 1398.1 | 1399.1 | 1394.6 | 1387.5 |
| 15° | 1255.8 | 1259.4 | 1267.5 | 1262.4 | 1253.8 |
| 17.5° | 1103.4 | 1108.5 | 1115.6 | 1114.1 | 1102.4 |
| 20° | 934.3 | 949.0 | 959.1 | 949.5 | 932.8 |
| 22.5° | 741.9 | 773.3 | 799.1 | 778.8 | 751.5 |
| 25° | 572.2 | 599.6 | 645.1 | 610.7 | 583.4 |
| 27.5° | 434.0 | 453.7 | 495.2 | 461.3 | 442.6 |
| 30° | 318.0 | 330.2 | 359.0 | 336.7 | 323.6 |
| 32.5° | 227.4 | 236.0 | 248.1 | 235.0 | 228.4 |
| 35° | 159.0 | 163.6 | 169.1 | 164.1 | 159.5 |
| 37.5° | 111.9 | 113.4 | 117.5 | 113.4 | 111.4 |
| 40° | 78.5 | 79.0 | 82.0 | 79.5 | 78.5 |
| 42.5° | 56.7 | 56.7 | 58.2 | 57.2 | 56.7 |
| 45° | 40.5 | 41.0 | 42.0 | 41.5 | 41.0 |
| 47.5° | 28.9 | 29.9 | 29.9 | 30.4 | 28.4 |
| 50° | 17.2 | 21.3 | 21.8 | 21.3 | 17.2 |
| 52.5° | 9.1 | 12.7 | 15.7 | 12.7 | 9.1 |
| 55° | 5.6 | 7.6 | 10.6 | 7.6 | 6.1 |
| 57.5° | 5.6 | 5.6 | 7.1 | 6.1 | 5.6 |
| 60° | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 62.5° | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 65° | 5.1 | 5.6 | 5.6 | 5.6 | 5.1 |
| 67.5° | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| 70° | 5.1 | 5.1 | 4.6 | 5.1 | 5.1 |
| 72.5° | 4.6 | 4.6 | 4.1 | 4.6 | 4.6 |
| 75° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 77.5° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 80° | 2.5 | 2.5 | 2.0 | 2.5 | 2.5 |
| 82.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 85° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 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)