

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: P283845

Luminaire Tested: **LDA2B059035D010 EU2B05WFL559035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283845
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: LDA2B059035D010 EU2B05WFL559035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 596.7 lumens
Efficiency: N/A
Efficacy: 85.2 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

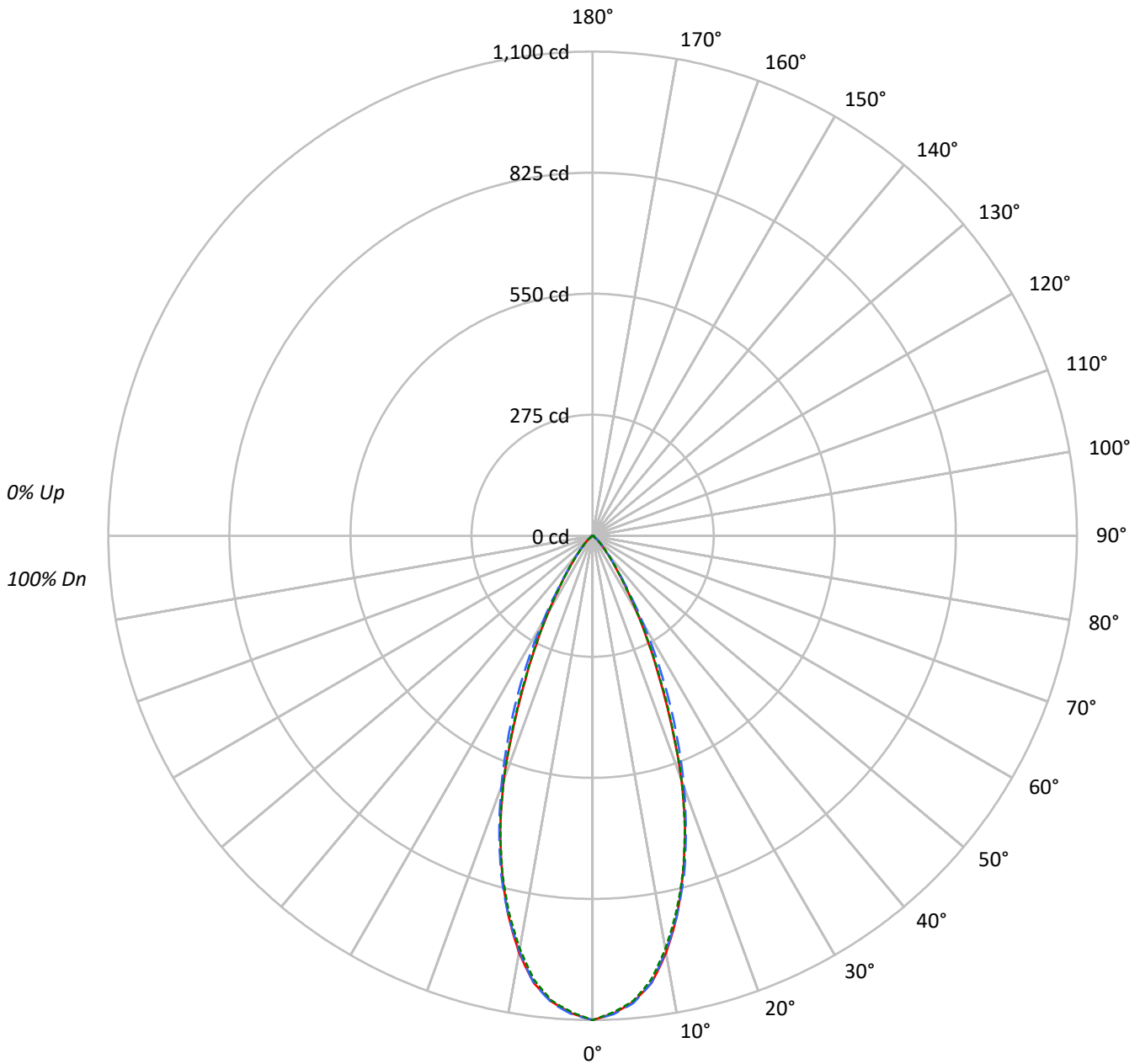
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 542797 | 542797 | 542797 |
| 5° | 526496 | 527735 | 525357 |
| 10° | 481886 | 479982 | 477076 |
| 15° | 405344 | 409123 | 404680 |
| 20° | 309975 | 318217 | 309450 |
| 25° | 196842 | 221937 | 200653 |
| 30° | 114507 | 129262 | 116501 |
| 35° | 60529 | 64384 | 60710 |
| 40° | 31944 | 33361 | 31944 |
| 45° | 17862 | 18559 | 18071 |
| 50° | 8366 | 10592 | 8366 |
| 55° | 3011 | 5763 | 3269 |
| 60° | 3454 | 3454 | 3454 |
| 65° | 3736 | 4086 | 3736 |
| 70° | 4616 | 4183 | 4616 |
| 75° | 4194 | 4194 | 4194 |
| 80° | 4546 | 3694 | 4546 |
| 85° | 3396 | 3396 | 3396 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.2 | 16.5 |
| 10°-20° | 218.7 | 36.6 |
| 20°-30° | 176.6 | 29.6 |
| 30°-40° | 69.8 | 11.7 |
| 40°-50° | 21.4 | 3.6 |
| 50°-60° | 5.5 | 0.9 |
| 60°-70° | 3.3 | 0.6 |
| 70°-80° | 2.4 | 0.4 |
| 80°-90° | 0.7 | 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° | 493.5 | 82.7 |
| 0°-40° | 563.3 | 94.4 |
| 0°-60° | 590.2 | 98.9 |
| 0°-90° | 596.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 596.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1100 | 1100 | 1100 | 1100 | 1100 | |
| 5° | 1063 | 1065 | 1066 | 1063 | 1061 | 98 |
| 15° | 794 | 796 | 801 | 798 | 792 | 218 |
| 25° | 362 | 379 | 408 | 386 | 369 | 168 |
| 35° | 100 | 103 | 107 | 104 | 101 | 67 |
| 45° | 26 | 26 | 27 | 26 | 26 | 21 |
| 55° | 4 | 5 | 7 | 5 | 4 | 4 |
| 65° | 3 | 4 | 4 | 4 | 3 | 3 |
| 75° | 2 | 2 | 2 | 2 | 2 | 2 |
| 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° | 1100.2 | 1100.2 | 1100.2 | 1100.2 | 1100.2 |
| 2.5° | 1086.4 | 1087.1 | 1088.0 | 1086.7 | 1083.5 |
| 5° | 1063.1 | 1065.0 | 1065.6 | 1063.4 | 1060.8 |
| 7.5° | 1024.7 | 1022.4 | 1024.3 | 1020.5 | 1017.3 |
| 10° | 961.9 | 959.1 | 958.1 | 952.3 | 952.3 |
| 12.5° | 884.5 | 883.5 | 884.2 | 881.3 | 876.8 |
| 15° | 793.6 | 795.9 | 801.0 | 797.8 | 792.3 |
| 17.5° | 697.3 | 700.5 | 705.0 | 704.0 | 696.7 |
| 20° | 590.4 | 599.7 | 606.1 | 600.0 | 589.4 |
| 22.5° | 468.8 | 488.6 | 505.0 | 492.2 | 474.9 |
| 25° | 361.6 | 378.9 | 407.7 | 385.9 | 368.6 |
| 27.5° | 274.2 | 286.7 | 313.0 | 291.5 | 279.7 |
| 30° | 201.0 | 208.6 | 226.9 | 212.8 | 204.5 |
| 32.5° | 143.7 | 149.1 | 156.8 | 148.5 | 144.3 |
| 35° | 100.5 | 103.4 | 106.9 | 103.7 | 100.8 |
| 37.5° | 70.7 | 71.7 | 74.2 | 71.7 | 70.4 |
| 40° | 49.6 | 49.9 | 51.8 | 50.2 | 49.6 |
| 42.5° | 35.8 | 35.8 | 36.8 | 36.2 | 35.8 |
| 45° | 25.6 | 25.9 | 26.6 | 26.2 | 25.9 |
| 47.5° | 18.2 | 18.9 | 18.9 | 19.2 | 17.9 |
| 50° | 10.9 | 13.4 | 13.8 | 13.4 | 10.9 |
| 52.5° | 5.8 | 8.0 | 9.9 | 8.0 | 5.8 |
| 55° | 3.5 | 4.8 | 6.7 | 4.8 | 3.8 |
| 57.5° | 3.5 | 3.5 | 4.5 | 3.8 | 3.5 |
| 60° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 62.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 65° | 3.2 | 3.5 | 3.5 | 3.5 | 3.2 |
| 67.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 70° | 3.2 | 3.2 | 2.9 | 3.2 | 3.2 |
| 72.5° | 2.9 | 2.9 | 2.6 | 2.9 | 2.9 |
| 75° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 77.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 80° | 1.6 | 1.6 | 1.3 | 1.6 | 1.6 |
| 82.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 85° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 87.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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







(END OF REPORT)