

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: P315696

Luminaire Tested: **LDA2B10WFL9727D010 PINW1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P315696
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: LDA2B10WFL9727D010 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: 649.6 lumens
Efficiency: N/A
Efficacy: 65.0 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

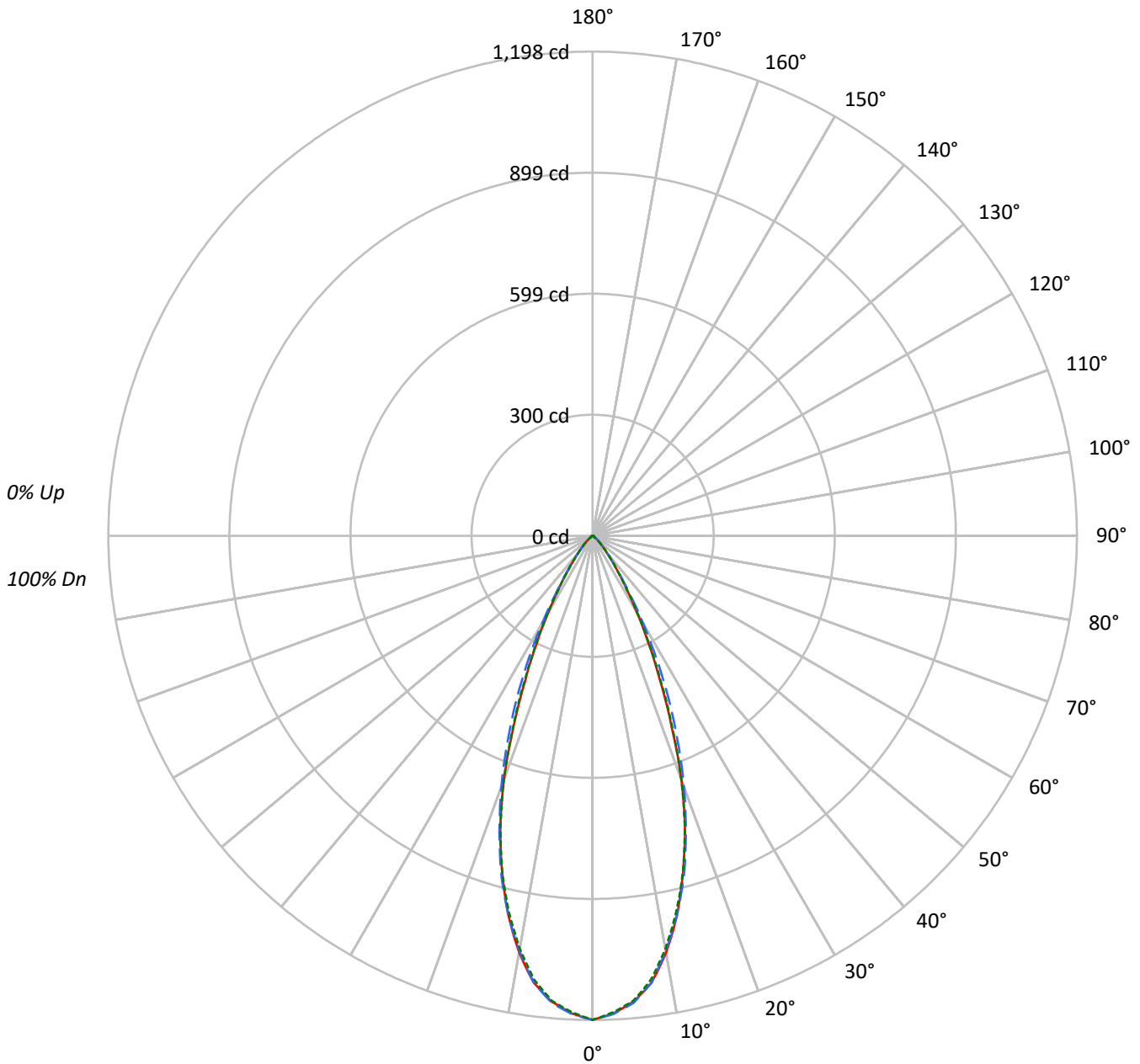
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 104 | 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° | 590949 | 590949 | 590949 |
| 5° | 573198 | 574585 | 571960 |
| 10° | 524669 | 522565 | 519408 |
| 15° | 441302 | 445388 | 440586 |
| 20° | 337486 | 346464 | 336961 |
| 25° | 214316 | 241643 | 218508 |
| 30° | 124647 | 140712 | 126812 |
| 35° | 65890 | 70106 | 66071 |
| 40° | 34778 | 36324 | 34778 |
| 45° | 19466 | 20164 | 19676 |
| 50° | 9057 | 11513 | 9057 |
| 55° | 3269 | 6279 | 3613 |
| 60° | 3750 | 3750 | 3750 |
| 65° | 4086 | 4436 | 4086 |
| 70° | 5049 | 4472 | 5049 |
| 75° | 4575 | 4575 | 4575 |
| 80° | 4830 | 3978 | 4830 |
| 85° | 3962 | 3962 | 3962 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 106.9 | 16.5 |
| 10°-20° | 238.1 | 36.6 |
| 20°-30° | 192.3 | 29.6 |
| 30°-40° | 76.0 | 11.7 |
| 40°-50° | 23.3 | 3.6 |
| 50°-60° | 6.0 | 0.9 |
| 60°-70° | 3.6 | 0.6 |
| 70°-80° | 2.6 | 0.4 |
| 80°-90° | 0.8 | 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° | 537.3 | 82.7 |
| 0°-40° | 613.2 | 94.4 |
| 0°-60° | 642.6 | 98.9 |
| 0°-90° | 649.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 649.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1198 | 1198 | 1198 | 1198 | 1198 | |
| 5° | 1157 | 1160 | 1160 | 1158 | 1155 | 107 |
| 15° | 864 | 866 | 872 | 869 | 863 | 237 |
| 25° | 394 | 412 | 444 | 420 | 401 | 183 |
| 35° | 109 | 112 | 116 | 113 | 110 | 73 |
| 45° | 28 | 28 | 29 | 29 | 28 | 23 |
| 55° | 4 | 5 | 7 | 5 | 4 | 5 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 75° | 2 | 2 | 2 | 2 | 2 | 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° | 1197.8 | 1197.8 | 1197.8 | 1197.8 | 1197.8 |
| 2.5° | 1182.8 | 1183.5 | 1184.6 | 1183.2 | 1179.7 |
| 5° | 1157.4 | 1159.5 | 1160.2 | 1157.7 | 1154.9 |
| 7.5° | 1115.6 | 1113.1 | 1115.2 | 1111.1 | 1107.6 |
| 10° | 1047.3 | 1044.2 | 1043.1 | 1036.8 | 1036.8 |
| 12.5° | 963.0 | 961.9 | 962.6 | 959.5 | 954.6 |
| 15° | 864.0 | 866.5 | 872.0 | 868.6 | 862.6 |
| 17.5° | 759.2 | 762.7 | 767.5 | 766.5 | 758.5 |
| 20° | 642.8 | 652.9 | 659.9 | 653.3 | 641.8 |
| 22.5° | 510.4 | 532.0 | 549.8 | 535.8 | 517.0 |
| 25° | 393.7 | 412.5 | 443.9 | 420.2 | 401.4 |
| 27.5° | 298.6 | 312.2 | 340.7 | 317.4 | 304.5 |
| 30° | 218.8 | 227.2 | 247.0 | 231.7 | 222.6 |
| 32.5° | 156.4 | 162.4 | 170.7 | 161.7 | 157.1 |
| 35° | 109.4 | 112.5 | 116.4 | 112.9 | 109.7 |
| 37.5° | 77.0 | 78.0 | 80.8 | 78.0 | 76.6 |
| 40° | 54.0 | 54.4 | 56.4 | 54.7 | 54.0 |
| 42.5° | 39.0 | 39.0 | 40.1 | 39.4 | 39.0 |
| 45° | 27.9 | 28.2 | 28.9 | 28.6 | 28.2 |
| 47.5° | 19.9 | 20.6 | 20.6 | 20.9 | 19.5 |
| 50° | 11.8 | 14.6 | 15.0 | 14.6 | 11.8 |
| 52.5° | 6.3 | 8.7 | 10.8 | 8.7 | 6.3 |
| 55° | 3.8 | 5.2 | 7.3 | 5.2 | 4.2 |
| 57.5° | 3.8 | 3.8 | 4.9 | 4.2 | 3.8 |
| 60° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 62.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 65° | 3.5 | 3.8 | 3.8 | 3.8 | 3.5 |
| 67.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 70° | 3.5 | 3.5 | 3.1 | 3.5 | 3.5 |
| 72.5° | 3.1 | 3.1 | 2.8 | 3.1 | 3.1 |
| 75° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 77.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 80° | 1.7 | 1.7 | 1.4 | 1.7 | 1.7 |
| 82.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 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)