

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: P274484

Luminaire Tested: **LD6B20DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-38)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20DE010W2N2765 EU6B1020W2N902765 6LBCSSQ1MW
Description: PORTFOLIO 6" W2N SQ DOWNLIGHT, CAST SHALLOW WITH MATTE WHITE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1795.4 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 0.46' x L: 0.46' x H: 0')
CIE Type: Direct

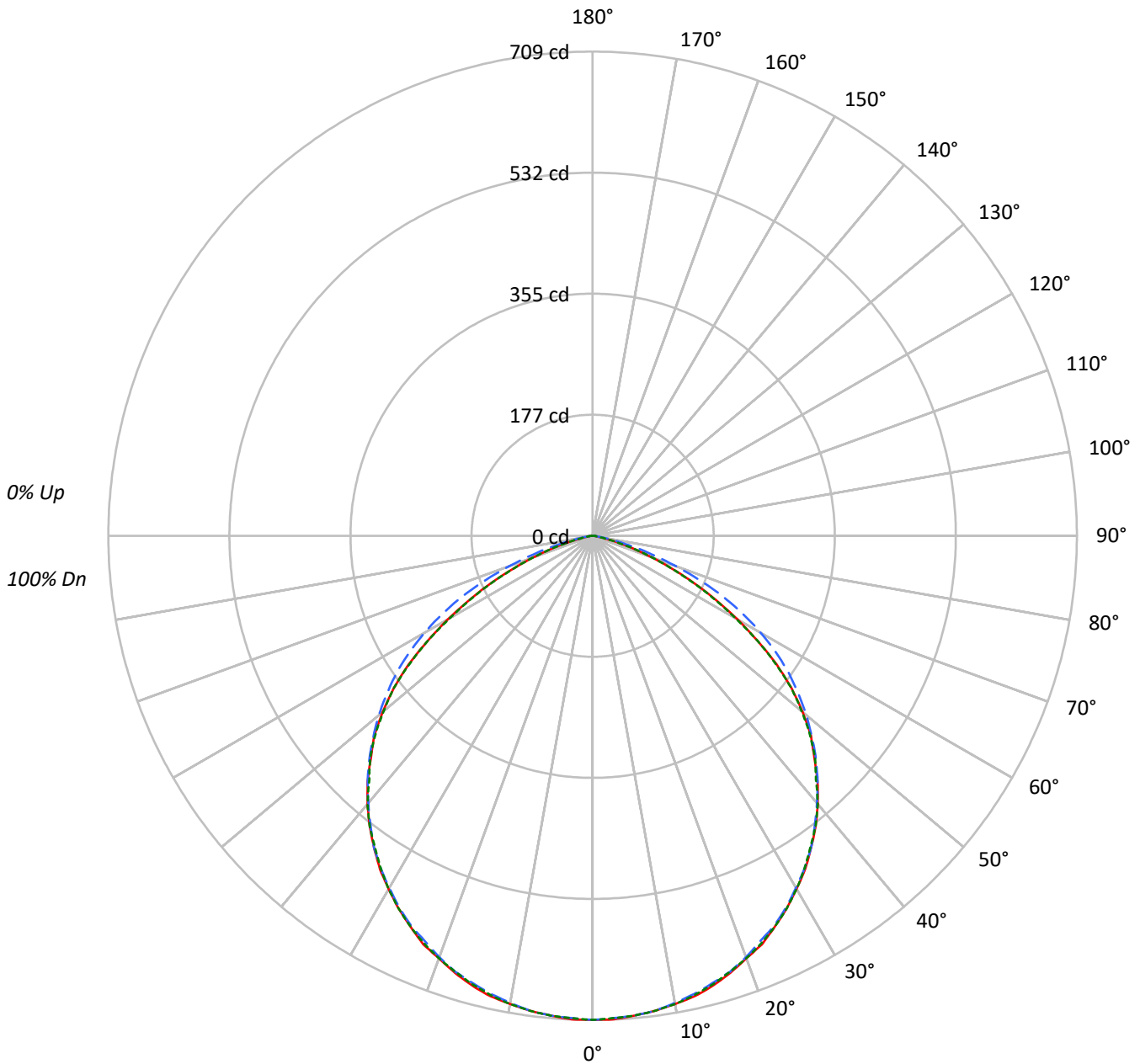
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 94 | 91 | 92 | 90 | 89 | 87 | | | | | | | | | | | | | | | | | | | |
| 2 | 101 | 94 | 87 | 82 | 99 | 92 | 86 | 81 | 88 | 84 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 74 | | | | | | | | | | | | | | | | | | | |
| 3 | 93 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 66 | 73 | 69 | 65 | 63 | | | | | | | | | | | | | | | | | | | |
| 4 | 85 | 74 | 66 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 54 | | | | | | | | | | | | | | | | | | | |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 54 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 6 | 72 | 60 | 51 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 | | | | | | | | | | | | | | | | | | | |
| 8 | 63 | 49 | 41 | 36 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | | | | | | | | | | | | | | | |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 | | | | | | | | | | | | | | | | | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 39 | 33 | 29 | 27 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 36319 | 36319 | 36319 |
| 5° | 36272 | 36272 | 36272 |
| 10° | 36224 | 36130 | 36224 |
| 15° | 36168 | 35977 | 36072 |
| 20° | 35901 | 35803 | 35901 |
| 25° | 35697 | 35596 | 35697 |
| 30° | 35334 | 35228 | 35334 |
| 35° | 34885 | 34885 | 34773 |
| 40° | 34294 | 34174 | 34294 |
| 45° | 33239 | 33500 | 33370 |
| 50° | 31982 | 32556 | 31838 |
| 55° | 29409 | 31338 | 29248 |
| 60° | 25077 | 29125 | 24708 |
| 65° | 19848 | 25522 | 19629 |
| 70° | 13738 | 19131 | 13738 |
| 75° | 7127 | 11760 | 7127 |
| 80° | 2656 | 4249 | 2656 |
| 85° | 2116 | 2116 | 2116 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.0 | 3.7 |
| 10°-20° | 191.8 | 10.7 |
| 20°-30° | 290.3 | 16.2 |
| 30°-40° | 348.3 | 19.4 |
| 40°-50° | 355.0 | 19.8 |
| 50°-60° | 301.3 | 16.8 |
| 60°-70° | 182.5 | 10.2 |
| 70°-80° | 54.3 | 3.0 |
| 80°-90° | 4.8 | 0.3 |
| 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° | 549.1 | 30.6 |
| 0°-40° | 897.4 | 50.0 |
| 0°-60° | 1553.8 | 86.5 |
| 0°-90° | 1795.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1795.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 709 | 709 | 709 | 709 | 709 | |
| 5° | 705 | 705 | 705 | 705 | 705 | 67 |
| 15° | 682 | 680 | 678 | 680 | 680 | 192 |
| 25° | 631 | 631 | 630 | 630 | 631 | 291 |
| 35° | 558 | 558 | 558 | 558 | 556 | 349 |
| 45° | 459 | 460 | 462 | 462 | 460 | 354 |
| 55° | 329 | 340 | 351 | 340 | 327 | 291 |
| 65° | 164 | 184 | 210 | 182 | 162 | 163 |
| 75° | 36 | 47 | 59 | 45 | 36 | 44 |
| 85° | 4 | 4 | 4 | 4 | 4 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 708.8 | 708.8 | 708.8 | 708.8 | 708.8 |
| 2.5° | 708.8 | 707.0 | 707.0 | 708.8 | 707.0 |
| 5° | 705.2 | 705.2 | 705.2 | 705.2 | 705.2 |
| 7.5° | 701.6 | 699.8 | 701.6 | 701.6 | 701.6 |
| 10° | 696.2 | 696.2 | 694.4 | 696.2 | 696.2 |
| 12.5° | 690.8 | 687.2 | 687.2 | 689.0 | 689.0 |
| 15° | 681.8 | 680.0 | 678.2 | 680.0 | 680.0 |
| 17.5° | 671.0 | 669.2 | 669.2 | 671.0 | 669.2 |
| 20° | 658.4 | 656.6 | 656.6 | 658.4 | 658.4 |
| 22.5° | 647.6 | 644.0 | 642.2 | 645.8 | 645.8 |
| 25° | 631.4 | 631.4 | 629.6 | 629.6 | 631.4 |
| 27.5° | 615.2 | 613.4 | 613.4 | 613.4 | 615.2 |
| 30° | 597.2 | 595.4 | 595.4 | 597.2 | 597.2 |
| 32.5° | 579.2 | 577.4 | 577.4 | 579.2 | 577.4 |
| 35° | 557.7 | 557.7 | 557.7 | 557.7 | 555.9 |
| 37.5° | 536.1 | 534.3 | 534.3 | 534.3 | 536.1 |
| 40° | 512.7 | 510.9 | 510.9 | 512.7 | 512.7 |
| 42.5° | 487.5 | 485.7 | 487.5 | 487.5 | 483.9 |
| 45° | 458.7 | 460.5 | 462.3 | 462.3 | 460.5 |
| 47.5° | 433.5 | 433.5 | 435.3 | 433.5 | 431.7 |
| 50° | 401.2 | 403.0 | 408.4 | 404.8 | 399.4 |
| 52.5° | 367.0 | 372.4 | 379.6 | 374.2 | 367.0 |
| 55° | 329.2 | 340.0 | 350.8 | 340.0 | 327.4 |
| 57.5° | 286.0 | 302.2 | 318.4 | 302.2 | 286.0 |
| 60° | 244.7 | 262.6 | 284.2 | 262.6 | 241.1 |
| 62.5° | 203.3 | 221.3 | 248.2 | 221.3 | 201.5 |
| 65° | 163.7 | 183.5 | 210.5 | 181.7 | 161.9 |
| 67.5° | 125.9 | 143.9 | 169.1 | 143.9 | 124.1 |
| 70° | 91.7 | 107.9 | 127.7 | 107.9 | 91.7 |
| 72.5° | 63.0 | 73.8 | 91.7 | 75.6 | 61.2 |
| 75° | 36.0 | 46.8 | 59.4 | 45.0 | 36.0 |
| 77.5° | 18.0 | 23.4 | 32.4 | 23.4 | 18.0 |
| 80° | 9.0 | 10.8 | 14.4 | 10.8 | 9.0 |
| 82.5° | 5.4 | 7.2 | 7.2 | 7.2 | 5.4 |
| 85° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 |
| 87.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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







(END OF REPORT)