

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: P283804

Luminaire Tested: **LDA2B058030D010 EU2B05WFL558030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283804
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: LDA2B058030D010 EU2B05WFL558030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 726.4 lumens
Efficiency: N/A
Efficacy: 103.8 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

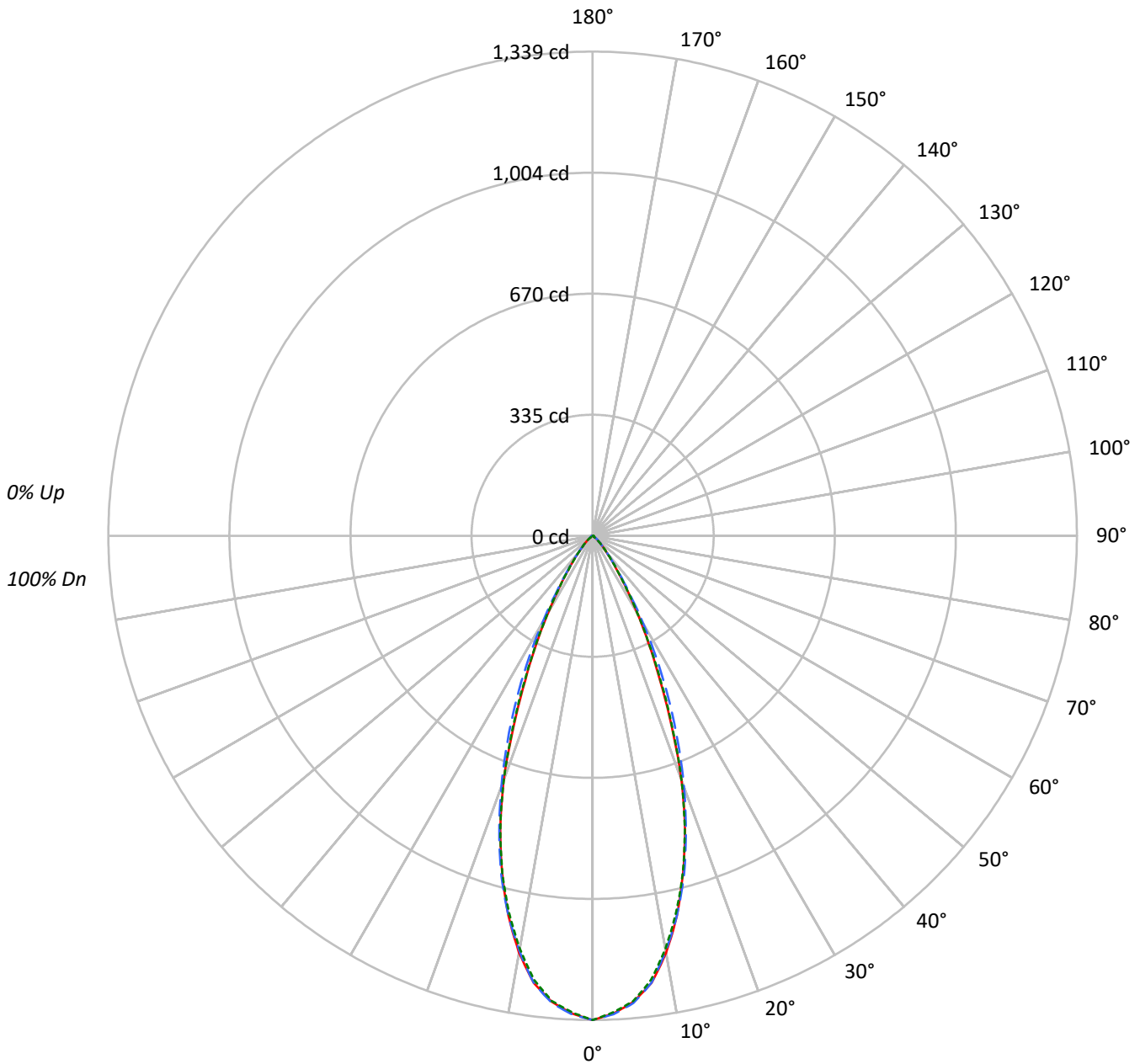
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283804

CATALOG NUMBER: LDA2B058030D010 EU2B05WFL558030 2LBAPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283804

CATALOG NUMBER: LDA2B058030D010 EU2B05WFL558030 2LBAPINSQ1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | | | | | 94 | | | |
| 2 | 109 | 104 | 101 | 98 | 107 | 103 | 99 | 96 | 100 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 89 | | | | | 89 | | | |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 90 | 87 | 85 | 84 | | | | | 84 | | | |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 83 | 90 | 86 | 82 | 88 | 84 | 81 | 86 | 83 | 81 | 79 | | | | | 79 | | | |
| 5 | 95 | 88 | 82 | 79 | 94 | 87 | 82 | 78 | 85 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | | | | | 75 | | | |
| 6 | 91 | 83 | 78 | 74 | 90 | 82 | 77 | 74 | 81 | 77 | 73 | 80 | 76 | 73 | 78 | 75 | 72 | 71 | | | | | 71 | | | |
| 7 | 87 | 79 | 74 | 70 | 86 | 78 | 73 | 70 | 77 | 73 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 67 | | | | | 67 | | | |
| 8 | 84 | 75 | 70 | 66 | 83 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 68 | 65 | 64 | | | | | 64 | | | |
| 9 | 81 | 72 | 67 | 63 | 80 | 71 | 66 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 62 | 61 | | | | | 61 | | | |
| 10 | 77 | 69 | 64 | 60 | 76 | 68 | 63 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 66 | 62 | 60 | 58 | | | | | 58 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 660710 | 660710 | 660710 |
| 5° | 640849 | 642384 | 639512 |
| 10° | 586589 | 584234 | 580728 |
| 15° | 493400 | 497997 | 492634 |
| 20° | 377335 | 387363 | 376705 |
| 25° | 239629 | 270168 | 244256 |
| 30° | 139345 | 157347 | 141795 |
| 35° | 73659 | 78357 | 73900 |
| 40° | 38900 | 40639 | 38900 |
| 45° | 21769 | 22536 | 22048 |
| 50° | 10131 | 12818 | 10131 |
| 55° | 3699 | 7053 | 4043 |
| 60° | 4243 | 4243 | 4243 |
| 65° | 4553 | 5020 | 4553 |
| 70° | 5626 | 5049 | 5626 |
| 75° | 5147 | 5147 | 5147 |
| 80° | 5398 | 4546 | 5398 |
| 85° | 4529 | 4529 | 4529 |



TEST NUMBER: P283804

CATALOG NUMBER: LDA2B058030D010 EU2B05WFL558030 2LBAPINSQ1MMS

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 119.5 | 16.5 |
| 10°-20° | 266.2 | 36.6 |
| 20°-30° | 215.0 | 29.6 |
| 30°-40° | 85.0 | 11.7 |
| 40°-50° | 26.1 | 3.6 |
| 50°-60° | 6.7 | 0.9 |
| 60°-70° | 4.1 | 0.6 |
| 70°-80° | 3.0 | 0.4 |
| 80°-90° | 0.9 | 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° | 600.7 | 82.7 |
| 0°-40° | 685.6 | 94.4 |
| 0°-60° | 718.5 | 98.9 |
| 0°-90° | 726.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 726.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1339 | 1339 | 1339 | 1339 | 1339 | |
| 5° | 1294 | 1296 | 1297 | 1294 | 1291 | 120 |
| 15° | 966 | 969 | 975 | 971 | 964 | 265 |
| 25° | 440 | 461 | 496 | 470 | 449 | 205 |
| 35° | 122 | 126 | 130 | 126 | 123 | 82 |
| 45° | 31 | 32 | 32 | 32 | 32 | 25 |
| 55° | 4 | 6 | 8 | 6 | 5 | 5 |
| 65° | 4 | 4 | 4 | 4 | 4 | 4 |
| 75° | 3 | 3 | 3 | 3 | 3 | 3 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P283804

CATALOG NUMBER: LDA2B058030D010 EU2B05WFL558030 2LBAPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1339.2 | 1339.2 | 1339.2 | 1339.2 | 1339.2 |
| 2.5° | 1322.4 | 1323.2 | 1324.4 | 1322.8 | 1318.9 |
| 5° | 1294.0 | 1296.3 | 1297.1 | 1294.4 | 1291.3 |
| 7.5° | 1247.3 | 1244.5 | 1246.9 | 1242.2 | 1238.3 |
| 10° | 1170.9 | 1167.4 | 1166.2 | 1159.2 | 1159.2 |
| 12.5° | 1076.6 | 1075.5 | 1076.3 | 1072.8 | 1067.3 |
| 15° | 966.0 | 968.8 | 975.0 | 971.1 | 964.5 |
| 17.5° | 848.8 | 852.7 | 858.1 | 857.0 | 848.0 |
| 20° | 718.7 | 730.0 | 737.8 | 730.4 | 717.5 |
| 22.5° | 570.7 | 594.8 | 614.7 | 599.1 | 578.1 |
| 25° | 440.2 | 461.2 | 496.3 | 469.8 | 448.7 |
| 27.5° | 333.8 | 349.0 | 381.0 | 354.9 | 340.4 |
| 30° | 244.6 | 254.0 | 276.2 | 259.0 | 248.9 |
| 32.5° | 174.9 | 181.5 | 190.9 | 180.7 | 175.7 |
| 35° | 122.3 | 125.8 | 130.1 | 126.2 | 122.7 |
| 37.5° | 86.1 | 87.3 | 90.4 | 87.3 | 85.7 |
| 40° | 60.4 | 60.8 | 63.1 | 61.2 | 60.4 |
| 42.5° | 43.6 | 43.6 | 44.8 | 44.0 | 43.6 |
| 45° | 31.2 | 31.6 | 32.3 | 31.9 | 31.6 |
| 47.5° | 22.2 | 23.0 | 23.0 | 23.4 | 21.8 |
| 50° | 13.2 | 16.4 | 16.7 | 16.4 | 13.2 |
| 52.5° | 7.0 | 9.7 | 12.1 | 9.7 | 7.0 |
| 55° | 4.3 | 5.8 | 8.2 | 5.8 | 4.7 |
| 57.5° | 4.3 | 4.3 | 5.5 | 4.7 | 4.3 |
| 60° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 62.5° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 65° | 3.9 | 4.3 | 4.3 | 4.3 | 3.9 |
| 67.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 70° | 3.9 | 3.9 | 3.5 | 3.9 | 3.9 |
| 72.5° | 3.5 | 3.5 | 3.1 | 3.5 | 3.5 |
| 75° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 77.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 80° | 1.9 | 1.9 | 1.6 | 1.9 | 1.9 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 85° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 87.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)