

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: P277928

Luminaire Tested: **LDA2B059035D010 EU2B05SP159035 2LBAD1WHH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P277928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059035D010 EU2B05SP159035 2LBAD1WHH
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
ADJ spun Refl, Self-Flanged, WHH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 666.9 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.28
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

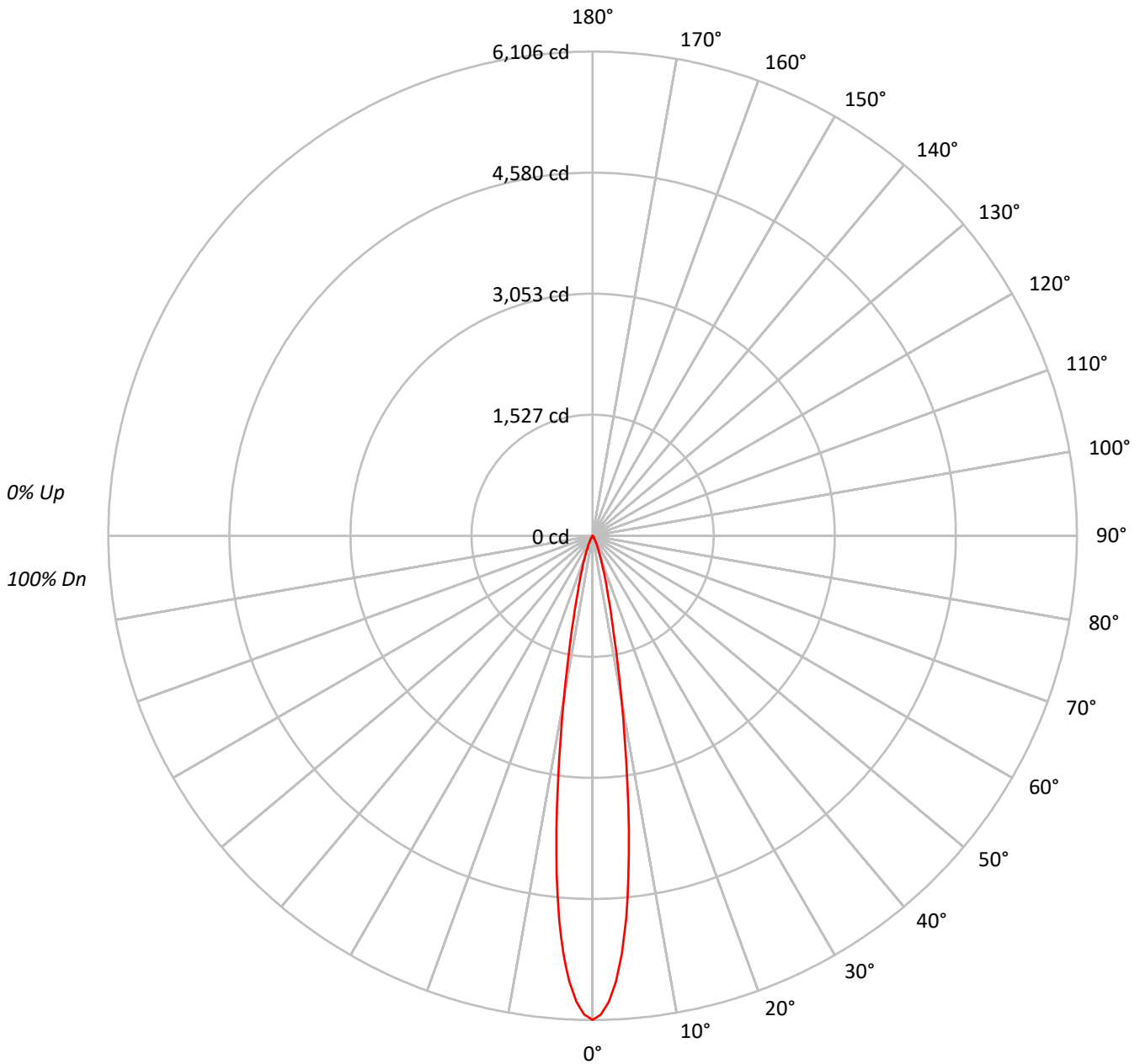
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 116 | 114 | 112 | 110 | 113 | 112 | 110 | 109 | 108 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 98 | 98 |
| 2 | 112 | 109 | 107 | 104 | 110 | 108 | 105 | 103 | 105 | 103 | 101 | 102 | 100 | 99 | 99 | 98 | 97 | 96 | 96 | 96 |
| 3 | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99 | 102 | 99 | 98 | 100 | 98 | 96 | 97 | 96 | 95 | 95 | 95 | 95 |
| 4 | 107 | 102 | 99 | 96 | 105 | 101 | 98 | 96 | 99 | 97 | 95 | 98 | 95 | 94 | 96 | 94 | 93 | 93 | 93 | 93 |
| 5 | 104 | 99 | 96 | 93 | 103 | 99 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 91 | 94 | 92 | 91 | 91 | 91 | 91 |
| 6 | 102 | 97 | 93 | 91 | 101 | 96 | 93 | 91 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 89 | 89 | 89 |
| 7 | 100 | 95 | 91 | 89 | 99 | 94 | 91 | 88 | 93 | 90 | 88 | 92 | 90 | 88 | 91 | 89 | 87 | 87 | 87 | 87 |
| 8 | 98 | 93 | 89 | 87 | 97 | 92 | 89 | 87 | 91 | 88 | 86 | 90 | 88 | 86 | 90 | 87 | 86 | 86 | 86 | 86 |
| 9 | 96 | 91 | 87 | 85 | 95 | 90 | 87 | 85 | 90 | 87 | 85 | 89 | 86 | 84 | 88 | 86 | 84 | 84 | 84 | 84 |
| 10 | 94 | 89 | 86 | 83 | 94 | 89 | 85 | 83 | 88 | 85 | 83 | 87 | 85 | 83 | 87 | 85 | 83 | 83 | 83 | 83 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 3012664 |
| 5° | 2401895 |
| 10° | 1042775 |
| 15° | 360294 |
| 20° | 147742 |
| 25° | 66739 |
| 30° | 26832 |
| 35° | 12527 |
| 40° | 6762 |
| 45° | 2512 |
| 50° | 1535 |
| 55° | 1118 |
| 60° | 691 |
| 65° | 350 |
| 70° | 433 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 366.5 | 55.0 |
| 10°-20° | 220.1 | 33.0 |
| 20°-30° | 60.6 | 9.1 |
| 30°-40° | 14.4 | 2.2 |
| 40°-50° | 3.5 | 0.5 |
| 50°-60° | 1.2 | 0.2 |
| 60°-70° | 0.4 | 0.1 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 647.2 | 97.1 |
| 0°-40° | 661.7 | 99.2 |
| 0°-60° | 666.4 | 99.9 |
| 0°-90° | 666.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 666.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6106 | |
| 5° | 4850 | 367 |
| 15° | 705 | 220 |
| 25° | 123 | 61 |
| 35° | 21 | 14 |
| 45° | 4 | 4 |
| 55° | 1 | 1 |
| 65° | 0 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 6106.4 |
| 1° | 6038.9 |
| 2° | 5877.1 |
| 3° | 5630.4 |
| 4° | 5282.1 |
| 5° | 4849.9 |
| 6° | 4322.1 |
| 7° | 3743.9 |
| 8° | 3136.4 |
| 9° | 2577.6 |
| 10° | 2081.5 |
| 11° | 1661.4 |
| 12° | 1322.4 |
| 13° | 1066.4 |
| 14° | 862.8 |
| 15° | 705.4 |
| 17.5° | 437.8 |
| 20° | 281.4 |
| 22.5° | 184.5 |
| 25° | 122.6 |
| 27.5° | 78.7 |
| 30° | 47.1 |
| 32.5° | 29.7 |
| 35° | 20.8 |
| 37.5° | 15.2 |
| 40° | 10.5 |
| 42.5° | 6.3 |
| 45° | 3.6 |
| 47.5° | 2.6 |
| 50° | 2.0 |
| 52.5° | 1.6 |
| 55° | 1.3 |
| 57.5° | 1.0 |
| 60° | 0.7 |
| 62.5° | 0.7 |
| 65° | 0.3 |
| 67.5° | 0.3 |
| 70° | 0.3 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







| | | |
|-------|--|-----|
| 85° | | 0.0 |
| 87.5° | | 0.0 |



(END OF REPORT)