

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: P278394

Luminaire Tested: **LDA2B059024D010 EU2B05NFL259024 2LBALD1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P278394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-2)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059024D010 EU2B05NFL259024 2LBALD1LI
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in ADJ spun Refl w/lens Self-Flanged, H
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 558.3 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.39
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

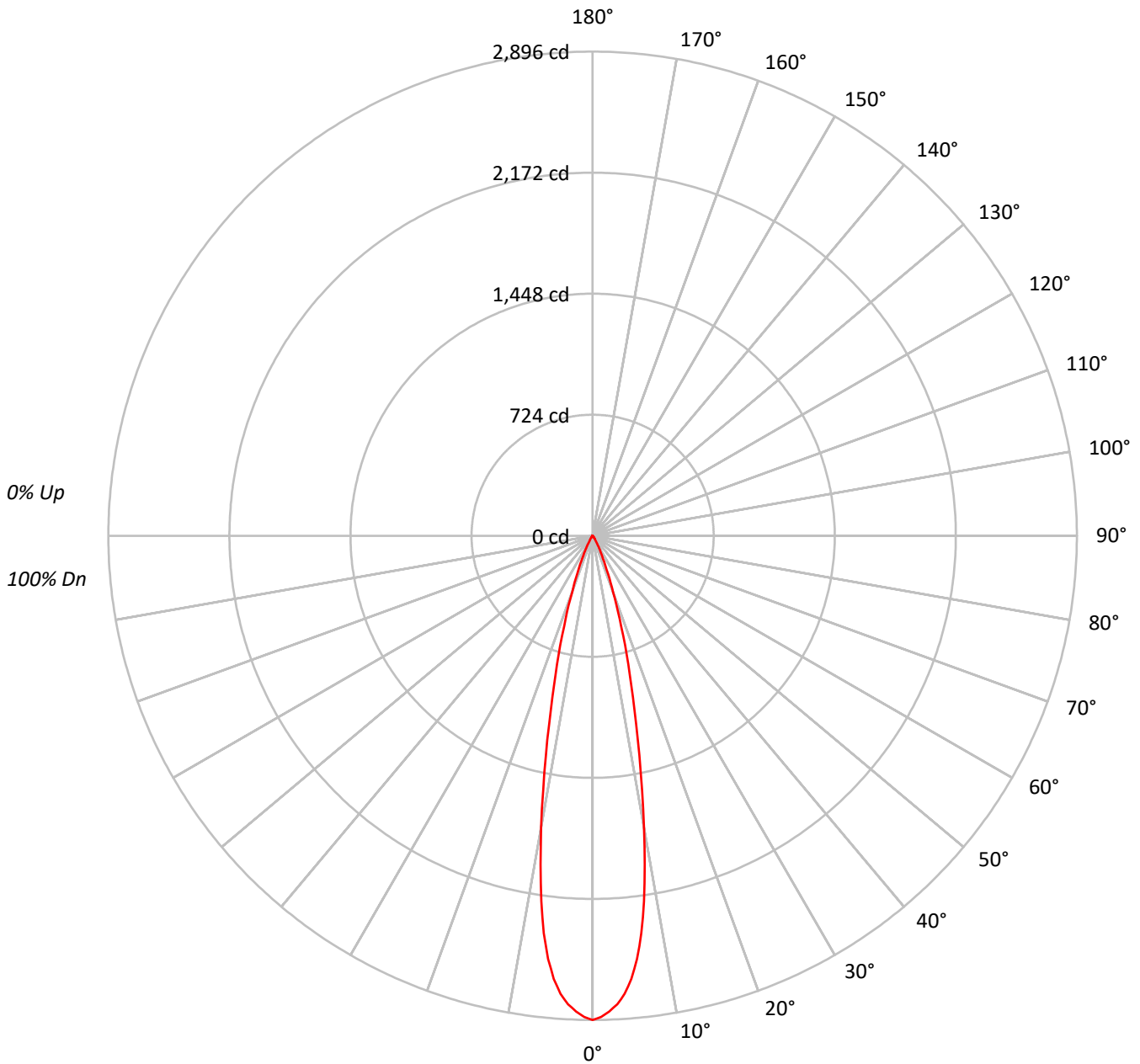
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 115 | 113 | 111 | 110 | 113 | 111 | 109 | 108 | 107 | 106 | 105 | 103 | 102 | 102 | 100 | 99 | 99 | 97 |
| 2 | 112 | 108 | 105 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 100 | 101 | 99 | 98 | 98 | 97 | 96 | 94 |
| 3 | 108 | 104 | 100 | 98 | 107 | 103 | 99 | 97 | 100 | 98 | 95 | 98 | 96 | 94 | 96 | 94 | 93 | 91 |
| 4 | 105 | 100 | 96 | 94 | 104 | 99 | 96 | 93 | 97 | 94 | 92 | 95 | 93 | 91 | 94 | 92 | 90 | 89 |
| 5 | 102 | 97 | 93 | 90 | 101 | 96 | 92 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 92 | 89 | 87 | 86 |
| 6 | 100 | 94 | 90 | 87 | 98 | 93 | 89 | 87 | 92 | 89 | 86 | 91 | 88 | 86 | 89 | 87 | 85 | 84 |
| 7 | 97 | 91 | 87 | 84 | 96 | 90 | 87 | 84 | 89 | 86 | 84 | 88 | 85 | 83 | 87 | 85 | 83 | 82 |
| 8 | 95 | 88 | 85 | 82 | 94 | 88 | 84 | 82 | 87 | 84 | 81 | 86 | 83 | 81 | 85 | 83 | 81 | 80 |
| 9 | 92 | 86 | 82 | 80 | 92 | 86 | 82 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 84 | 81 | 79 | 78 |
| 10 | 90 | 84 | 80 | 78 | 90 | 84 | 80 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 82 | 79 | 77 | 76 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1428924 |
| 5° | 1317801 |
| 10° | 888024 |
| 15° | 437828 |
| 20° | 187014 |
| 25° | 73544 |
| 30° | 28940 |
| 35° | 12708 |
| 40° | 6118 |
| 45° | 2930 |
| 50° | 1612 |
| 55° | 946 |
| 60° | 493 |
| 65° | 350 |
| 70° | 433 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 225.4 | 40.4 |
| 10°-20° | 242.8 | 43.5 |
| 20°-30° | 70.1 | 12.6 |
| 30°-40° | 14.8 | 2.7 |
| 40°-50° | 3.6 | 0.7 |
| 50°-60° | 1.1 | 0.2 |
| 60°-70° | 0.4 | 0.1 |
| 70°-80° | 0.2 | 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° | 538.2 | 96.4 |
| 0°-40° | 553.0 | 99.1 |
| 0°-60° | 557.7 | 99.9 |
| 0°-90° | 558.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 558.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2896 | |
| 5° | 2661 | 225 |
| 15° | 857 | 243 |
| 25° | 135 | 70 |
| 35° | 21 | 15 |
| 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° | 2896.3 |
| 1° | 2878.1 |
| 2° | 2847.3 |
| 3° | 2805.7 |
| 4° | 2746.8 |
| 5° | 2660.9 |
| 6° | 2545.1 |
| 7° | 2394.0 |
| 8° | 2208.1 |
| 9° | 1991.4 |
| 10° | 1772.6 |
| 11° | 1551.5 |
| 12° | 1342.7 |
| 13° | 1157.4 |
| 14° | 994.4 |
| 15° | 857.2 |
| 17.5° | 566.6 |
| 20° | 356.2 |
| 22.5° | 219.0 |
| 25° | 135.1 |
| 27.5° | 82.4 |
| 30° | 50.8 |
| 32.5° | 32.1 |
| 35° | 21.1 |
| 37.5° | 14.0 |
| 40° | 9.5 |
| 42.5° | 6.6 |
| 45° | 4.2 |
| 47.5° | 2.6 |
| 50° | 2.1 |
| 52.5° | 1.6 |
| 55° | 1.1 |
| 57.5° | 0.8 |
| 60° | 0.5 |
| 62.5° | 0.5 |
| 65° | 0.3 |
| 67.5° | 0.3 |
| 70° | 0.3 |
| 72.5° | 0.3 |
| 75° | 0.0 |
| 77.5° | 0.3 |
| 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)