

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: P280712

Luminaire Tested: **LDA2B159050D010 EU2B15WFL559050 2LBAD1WHH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P280712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1811-033-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159050D010 EU2B15WFL559050 2LBAD1WHH
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in ADJ spun Refl, Self-Flanged, WHH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1356.9 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.73
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

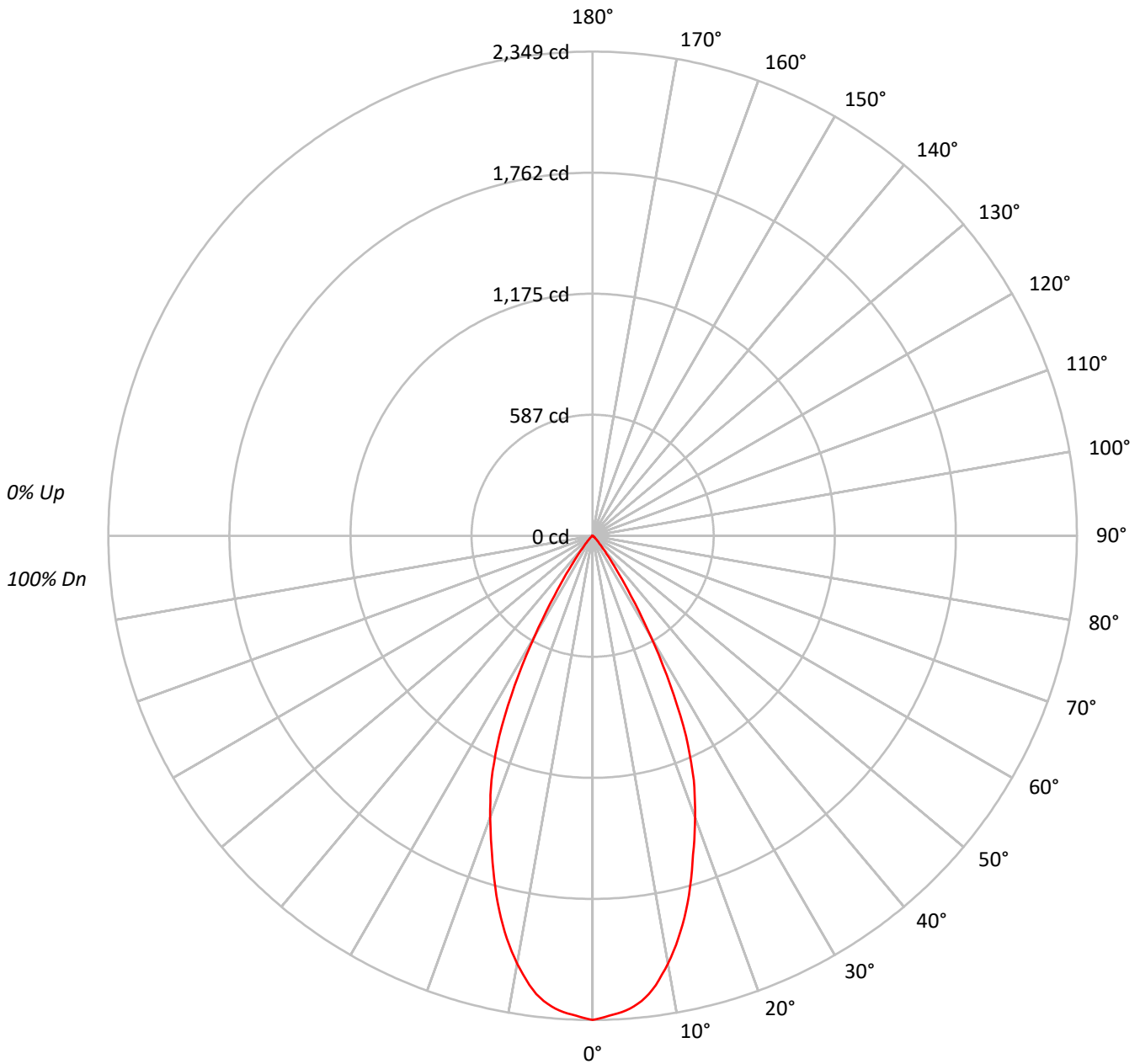
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 112 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 99 | 98 | 97 | 97 | 95 | | |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 98 | 95 | 97 | 95 | 93 | 95 | 93 | 91 | 90 | | |
| 3 | 105 | 99 | 95 | 91 | 103 | 98 | 94 | 91 | 95 | 92 | 89 | 93 | 90 | 88 | 91 | 88 | 86 | 85 | | |
| 4 | 100 | 94 | 89 | 85 | 99 | 93 | 88 | 85 | 91 | 87 | 84 | 89 | 85 | 83 | 87 | 84 | 82 | 80 | | |
| 5 | 96 | 89 | 84 | 80 | 95 | 88 | 83 | 80 | 86 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 78 | 76 | | |
| 6 | 92 | 84 | 79 | 75 | 91 | 84 | 79 | 75 | 82 | 78 | 75 | 81 | 77 | 74 | 80 | 76 | 74 | 72 | | |
| 7 | 88 | 80 | 75 | 71 | 87 | 80 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 69 | | |
| 8 | 85 | 76 | 71 | 68 | 84 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 65 | | |
| 9 | 81 | 73 | 68 | 64 | 80 | 72 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 64 | 62 | | |
| 10 | 78 | 70 | 65 | 61 | 77 | 69 | 64 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 67 | 63 | 61 | 59 | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1158858 |
| 5° | 1135204 |
| 10° | 1055650 |
| 15° | 921728 |
| 20° | 763123 |
| 25° | 583668 |
| 30° | 319365 |
| 35° | 118228 |
| 40° | 40961 |
| 45° | 18420 |
| 50° | 8673 |
| 55° | 4301 |
| 60° | 1283 |
| 65° | 700 |
| 70° | 865 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 213.0 | 15.7 |
| 10°-20° | 498.8 | 36.8 |
| 20°-30° | 471.4 | 34.7 |
| 30°-40° | 145.1 | 10.7 |
| 40°-50° | 22.9 | 1.7 |
| 50°-60° | 4.9 | 0.4 |
| 60°-70° | 0.7 | 0.1 |
| 70°-80° | 0.1 | 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° | 1183.2 | 87.2 |
| 0°-40° | 1328.3 | 97.9 |
| 0°-60° | 1356.1 | 99.9 |
| 0°-90° | 1356.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1356.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2349 | |
| 5° | 2292 | 213 |
| 15° | 1805 | 499 |
| 25° | 1072 | 471 |
| 35° | 196 | 145 |
| 45° | 26 | 23 |
| 55° | 5 | 5 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2348.9 |
| 1° | 2340.1 |
| 2° | 2329.4 |
| 3° | 2320.6 |
| 4° | 2309.2 |
| 5° | 2292.2 |
| 6° | 2270.2 |
| 7° | 2240.6 |
| 8° | 2201.0 |
| 9° | 2155.1 |
| 10° | 2107.2 |
| 11° | 2054.4 |
| 12° | 1998.4 |
| 13° | 1937.4 |
| 14° | 1873.8 |
| 15° | 1804.6 |
| 17.5° | 1621.5 |
| 20° | 1453.5 |
| 22.5° | 1283.0 |
| 25° | 1072.2 |
| 27.5° | 818.0 |
| 30° | 560.6 |
| 32.5° | 344.2 |
| 35° | 196.3 |
| 37.5° | 109.5 |
| 40° | 63.6 |
| 42.5° | 39.6 |
| 45° | 26.4 |
| 47.5° | 17.6 |
| 50° | 11.3 |
| 52.5° | 7.6 |
| 55° | 5.0 |
| 57.5° | 3.1 |
| 60° | 1.3 |
| 62.5° | 0.6 |
| 65° | 0.6 |
| 67.5° | 0.6 |
| 70° | 0.6 |
| 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)