

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: P278228

Luminaire Tested: **LDA2B208050D010 EU2B20SP158050 2LBAD1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P278228
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: LDA2B208050D010 EU2B20SP158050 2LBAD1MW
Description: PORTFOLIO 2IN ADJ 2000 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
ADJ spun Refl, Self-Flanged, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2094.1 lumens
Efficiency: N/A
Efficacy: 101.7 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

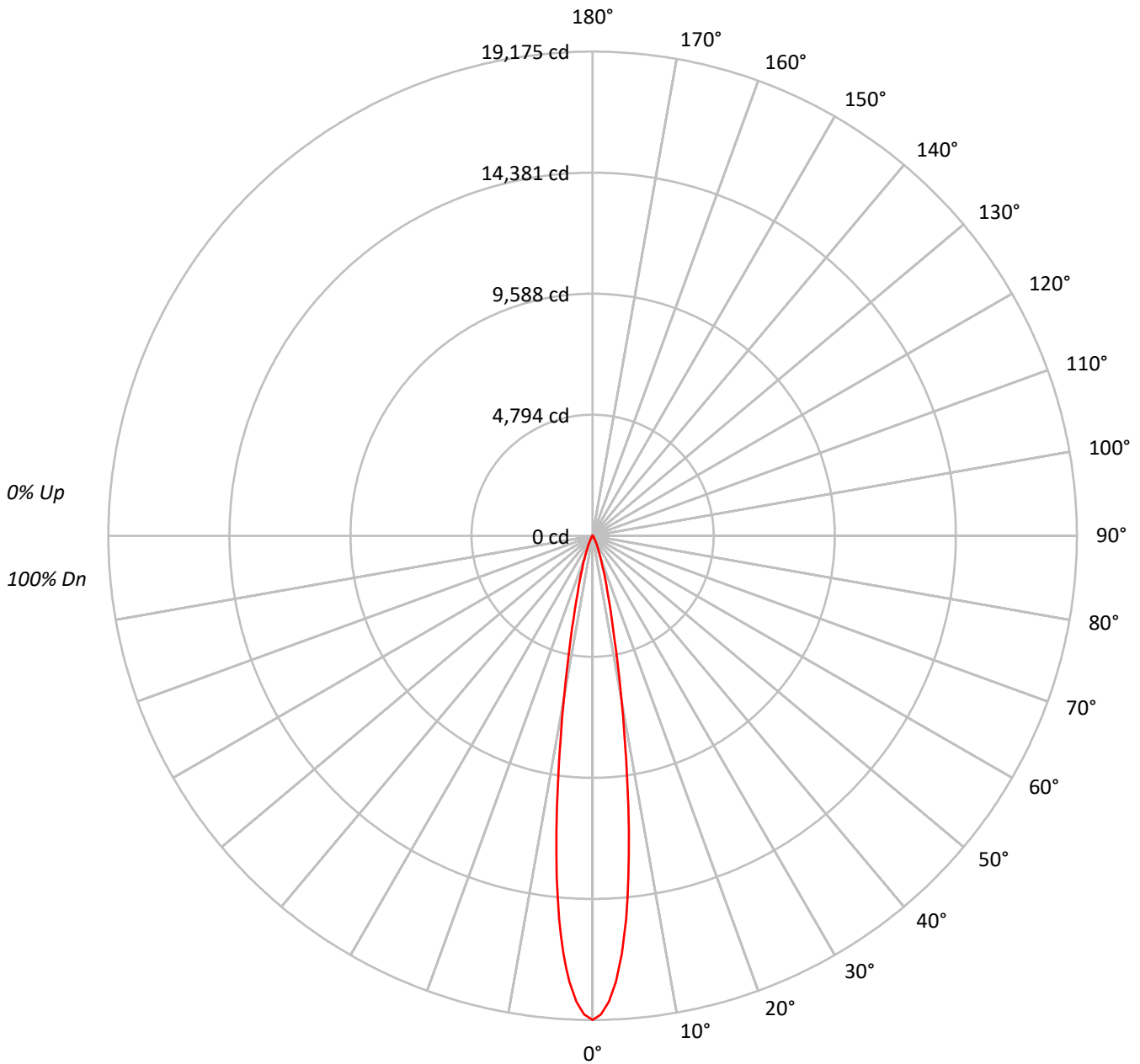
Input Watts (W): 20.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 116 | 114 | 112 | 110 | 113 | 112 | 110 | 109 | 108 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 |
| 2 | 112 | 109 | 107 | 104 | 110 | 108 | 105 | 103 | 105 | 103 | 101 | 102 | 100 | 99 | 99 | 98 | 97 | 96 |
| 3 | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99 | 102 | 99 | 98 | 100 | 98 | 96 | 97 | 96 | 95 | 93 |
| 4 | 107 | 102 | 99 | 96 | 105 | 101 | 98 | 96 | 99 | 97 | 95 | 98 | 95 | 94 | 96 | 94 | 93 | 92 |
| 5 | 104 | 99 | 96 | 93 | 103 | 99 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 91 | 94 | 92 | 91 | 90 |
| 6 | 102 | 97 | 93 | 91 | 101 | 96 | 93 | 91 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 88 |
| 7 | 100 | 95 | 91 | 89 | 99 | 94 | 91 | 88 | 93 | 90 | 88 | 92 | 90 | 88 | 91 | 89 | 87 | 86 |
| 8 | 98 | 93 | 89 | 87 | 97 | 92 | 89 | 87 | 91 | 88 | 86 | 90 | 88 | 86 | 90 | 87 | 86 | 85 |
| 9 | 96 | 91 | 87 | 85 | 95 | 90 | 87 | 85 | 90 | 87 | 85 | 89 | 86 | 84 | 88 | 86 | 84 | 83 |
| 10 | 94 | 89 | 86 | 83 | 94 | 89 | 85 | 83 | 88 | 85 | 83 | 87 | 85 | 83 | 87 | 85 | 83 | 82 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 9460262 |
| 5° | 7542305 |
| 10° | 3274458 |
| 15° | 1131295 |
| 20° | 463859 |
| 25° | 209471 |
| 30° | 84256 |
| 35° | 39269 |
| 40° | 21318 |
| 45° | 7954 |
| 50° | 4759 |
| 55° | 3527 |
| 60° | 2072 |
| 65° | 1167 |
| 70° | 1442 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1151.0 | 55.0 |
| 10°-20° | 691.2 | 33.0 |
| 20°-30° | 190.3 | 9.1 |
| 30°-40° | 45.3 | 2.2 |
| 40°-50° | 11.2 | 0.5 |
| 50°-60° | 3.7 | 0.2 |
| 60°-70° | 1.4 | 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° | 2032.5 | 97.1 |
| 0°-40° | 2077.7 | 99.2 |
| 0°-60° | 2092.6 | 99.9 |
| 0°-90° | 2094.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2094.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 19175 | |
| 5° | 15229 | ### |
| 15° | 2215 | 691 |
| 25° | 385 | 190 |
| 35° | 65 | 45 |
| 45° | 11 | 11 |
| 55° | 4 | 4 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 19175.1 |
| 1° | 18963.0 |
| 2° | 18455.1 |
| 3° | 17680.2 |
| 4° | 16586.7 |
| 5° | 15229.4 |
| 6° | 13572.1 |
| 7° | 11756.4 |
| 8° | 9848.8 |
| 9° | 8094.2 |
| 10° | 6536.2 |
| 11° | 5217.2 |
| 12° | 4152.6 |
| 13° | 3348.8 |
| 14° | 2709.4 |
| 15° | 2214.9 |
| 17.5° | 1374.9 |
| 20° | 883.5 |
| 22.5° | 579.3 |
| 25° | 384.8 |
| 27.5° | 247.3 |
| 30° | 147.9 |
| 32.5° | 93.1 |
| 35° | 65.2 |
| 37.5° | 47.6 |
| 40° | 33.1 |
| 42.5° | 19.7 |
| 45° | 11.4 |
| 47.5° | 8.3 |
| 50° | 6.2 |
| 52.5° | 5.2 |
| 55° | 4.1 |
| 57.5° | 3.1 |
| 60° | 2.1 |
| 62.5° | 2.1 |
| 65° | 1.0 |
| 67.5° | 1.0 |
| 70° | 1.0 |
| 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)