

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: P#

Luminaire Tested: **LD2B10D010 EU2B1010SP159050 2LBPINW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14823)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B10D010 EU2B1010SP159050 2LBPINW
Description: 1000 Lumen, 2inch Portfolio LED Downlight
SPOT OPTIC
ROUND PINHOLE WHITE OCULUS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 446.0 lumens
Efficiency: N/A
Efficacy: 43.3 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.24
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

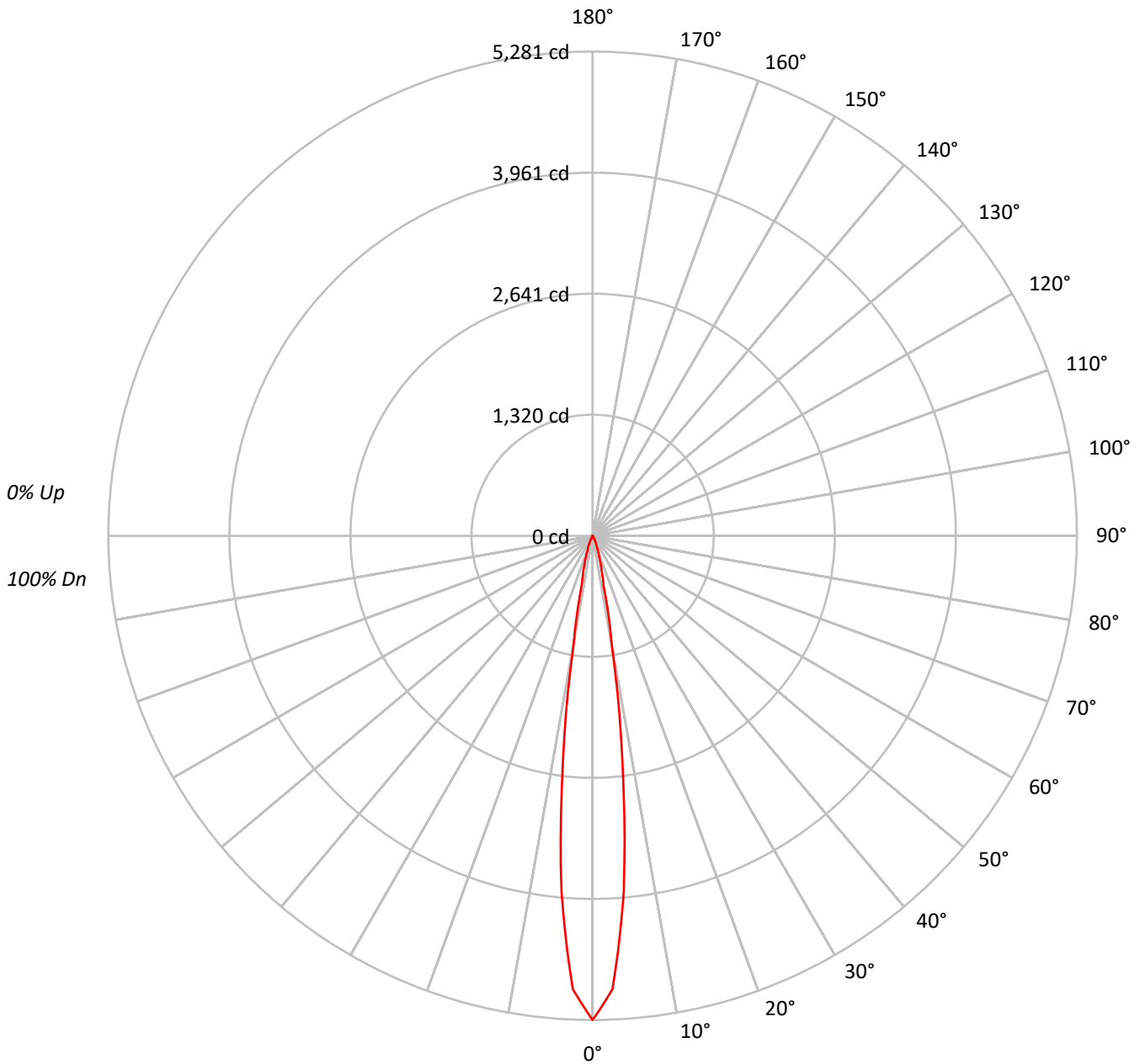
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 2046388 |
| 5° | 1517160 |
| 10° | 471723 |
| 15° | 150313 |
| 20° | 65523 |
| 25° | 29030 |
| 30° | 10738 |
| 35° | 5203 |
| 40° | 3541 |
| 45° | 2192 |
| 50° | 1206 |
| 55° | 1351 |
| 60° | 775 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 282.1 | 63.3 |
| 10°-20° | 117.9 | 26.4 |
| 20°-30° | 33.7 | 7.6 |
| 30°-40° | 7.6 | 1.7 |
| 40°-50° | 3.1 | 0.7 |
| 50°-60° | 1.4 | 0.3 |
| 60°-70° | 0.1 | 0.0 |
| 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° | 433.7 | 97.2 |
| 0°-40° | 441.3 | 98.9 |
| 0°-60° | 445.9 | 100.0 |
| 0°-90° | 446.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 446.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 5281 | |
| 5° | 3900 | 282 |
| 15° | 375 | 118 |
| 25° | 68 | 34 |
| 35° | 11 | 8 |
| 45° | 4 | 3 |
| 55° | 2 | 1 |
| 65° | 0 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 5281.2 |
| 2.5° | 4951.5 |
| 5° | 3900.5 |
| 7.5° | 2486.8 |
| 10° | 1198.9 |
| 12.5° | 557.5 |
| 15° | 374.7 |
| 17.5° | 232.8 |
| 20° | 158.9 |
| 22.5° | 107.9 |
| 25° | 67.9 |
| 27.5° | 40.0 |
| 30° | 24.0 |
| 32.5° | 15.0 |
| 35° | 11.0 |
| 37.5° | 8.0 |
| 40° | 7.0 |
| 42.5° | 5.0 |
| 45° | 4.0 |
| 47.5° | 3.0 |
| 50° | 2.0 |
| 52.5° | 2.0 |
| 55° | 2.0 |
| 57.5° | 1.0 |
| 60° | 1.0 |
| 62.5° | 0.0 |
| 65° | 0.0 |
| 67.5° | 0.0 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)