

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: **LD2B05D010 EU2B05WFL559035 2LBDSQC*MW**

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 (P14810)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B05D010 EU2B05WFL559035 2LBDSQC*MW
Description: 500 Lumen, 2inch Portfolio LED Downlight
WIDE FLOOD OPTIC
SQUARE CAST TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 586.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

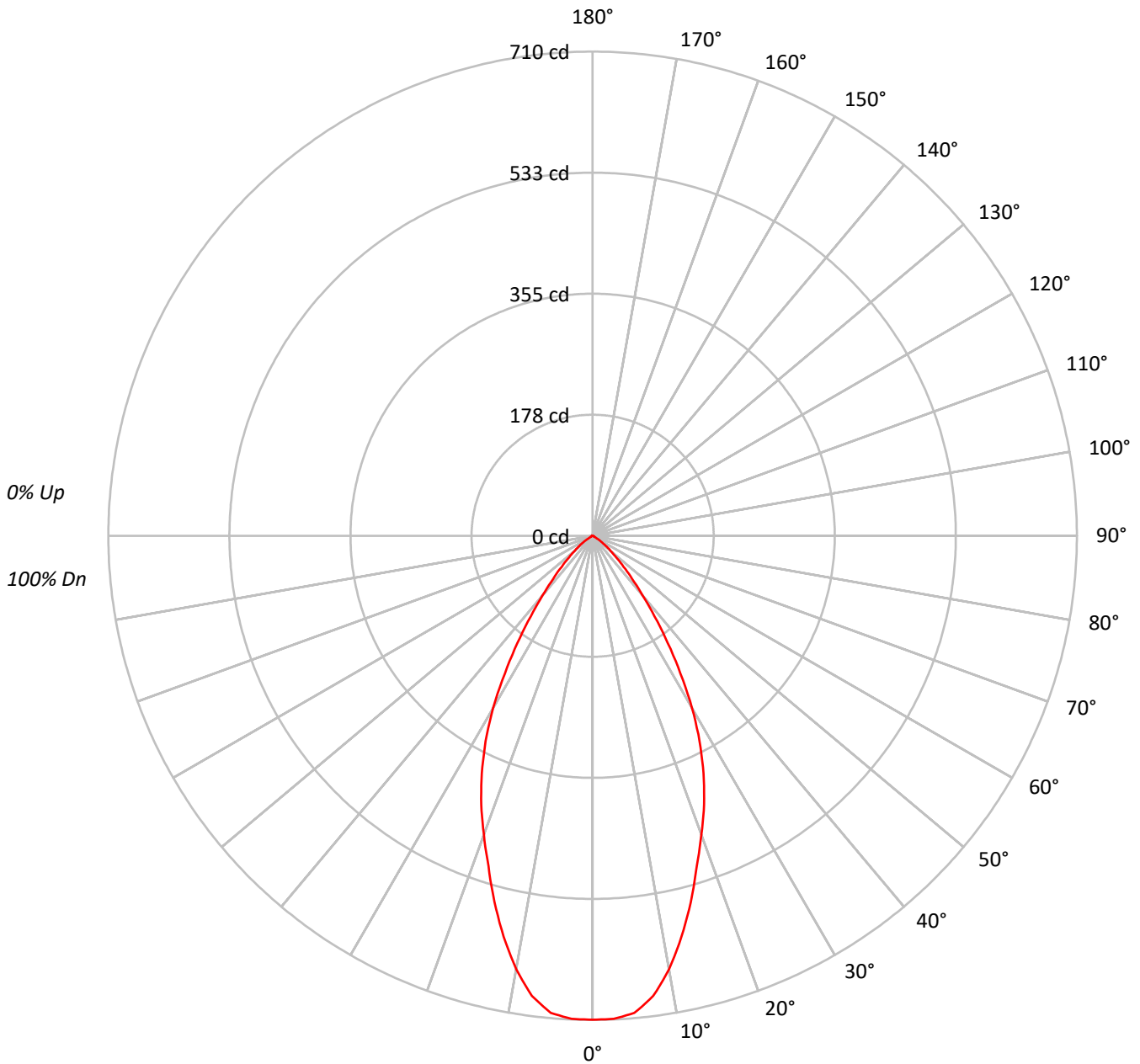
Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 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 |
| 1 | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | | | 93 |
| 2 | 108 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 94 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 86 | | | | 86 |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 84 | 89 | 85 | 83 | 87 | 84 | 81 | 80 | | | | 80 |
| 4 | 97 | 89 | 83 | 79 | 95 | 88 | 82 | 78 | 85 | 81 | 77 | 83 | 80 | 76 | 82 | 78 | 76 | 74 | | | | 74 |
| 5 | 91 | 83 | 77 | 72 | 90 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 69 | | | | 69 |
| 6 | 87 | 78 | 71 | 67 | 85 | 77 | 71 | 67 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 65 | 64 | | | | 64 |
| 7 | 82 | 73 | 67 | 62 | 81 | 72 | 66 | 62 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 64 | 61 | 60 | | | | 60 |
| 8 | 78 | 69 | 62 | 58 | 77 | 68 | 62 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 57 | 56 | | | | 56 |
| 9 | 74 | 65 | 59 | 55 | 73 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 53 | | | | 53 |
| 10 | 71 | 61 | 55 | 51 | 70 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 58 | 54 | 51 | 49 | | | | 49 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 274899 |
| 5° | 273150 |
| 10° | 253928 |
| 15° | 222922 |
| 20° | 192170 |
| 25° | 164331 |
| 30° | 130424 |
| 35° | 90884 |
| 40° | 57492 |
| 45° | 35113 |
| 50° | 20730 |
| 55° | 11345 |
| 60° | 2479 |
| 65° | 2200 |
| 70° | 1812 |
| 75° | 2395 |
| 80° | 1785 |
| 85° | 3555 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.2 | 11.1 |
| 10°-20° | 154.8 | 26.4 |
| 20°-30° | 174.7 | 29.8 |
| 30°-40° | 120.8 | 20.6 |
| 40°-50° | 51.5 | 8.8 |
| 50°-60° | 14.9 | 2.5 |
| 60°-70° | 2.2 | 0.4 |
| 70°-80° | 1.4 | 0.2 |
| 80°-90° | 0.5 | 0.1 |
| 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° | 394.7 | 67.4 |
| 0°-40° | 515.5 | 88.0 |
| 0°-60° | 581.9 | 99.3 |
| 0°-90° | 586.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 586.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 710 | |
| 5° | 702 | 65 |
| 15° | 556 | 155 |
| 25° | 384 | 175 |
| 35° | 192 | 121 |
| 45° | 64 | 52 |
| 55° | 17 | 15 |
| 65° | 2 | 2 |
| 75° | 2 | 1 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 709.7 |
| 2.5° | 708.9 |
| 5° | 702.5 |
| 7.5° | 680.8 |
| 10° | 645.6 |
| 12.5° | 602.3 |
| 15° | 555.9 |
| 17.5° | 507.8 |
| 20° | 466.2 |
| 22.5° | 426.9 |
| 25° | 384.5 |
| 27.5° | 339.6 |
| 30° | 291.6 |
| 32.5° | 239.5 |
| 35° | 192.2 |
| 37.5° | 149.0 |
| 40° | 113.7 |
| 42.5° | 85.7 |
| 45° | 64.1 |
| 47.5° | 46.5 |
| 50° | 34.4 |
| 52.5° | 24.8 |
| 55° | 16.8 |
| 57.5° | 7.2 |
| 60° | 3.2 |
| 62.5° | 2.4 |
| 65° | 2.4 |
| 67.5° | 1.6 |
| 70° | 1.6 |
| 72.5° | 1.6 |
| 75° | 1.6 |
| 77.5° | 0.8 |
| 80° | 0.8 |
| 82.5° | 0.8 |
| 85° | 0.8 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)