

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: P224724

Luminaire Tested: **LSRWM2B10FL409035D010 2LBD*MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P224724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSRWM2B10FL409035D010 2LBD*MW
Description: 1000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
SPUN ROUND TRIM WITH MATTE WHITE FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 853.9 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

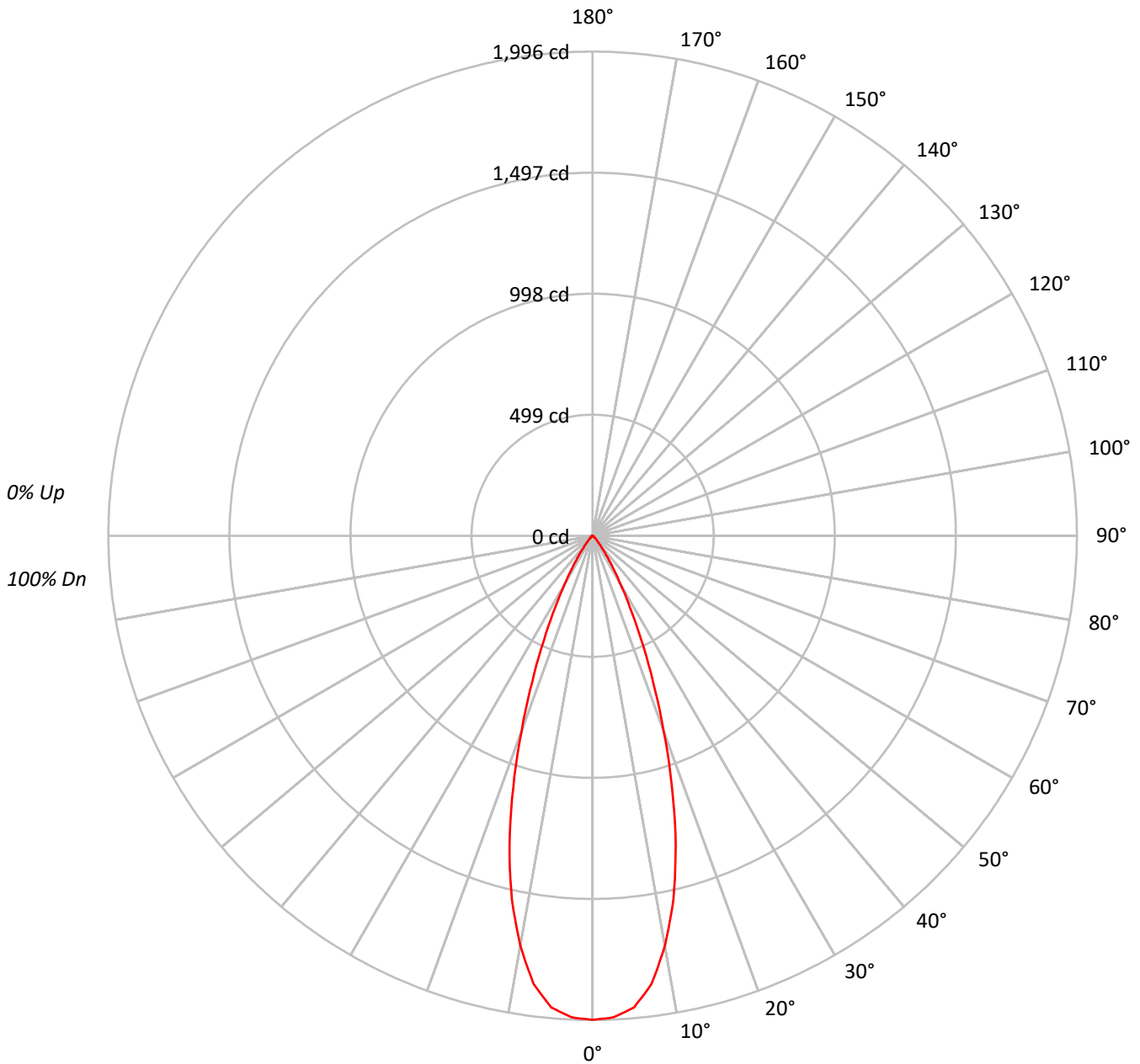
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | | | |
| 1 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 | | | |
| 2 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 94 | 92 | 91 | | | |
| 3 | 105 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 94 | 91 | 89 | 92 | 90 | 88 | 86 | | | |
| 4 | 101 | 95 | 90 | 87 | 100 | 94 | 90 | 86 | 92 | 88 | 85 | 90 | 87 | 85 | 88 | 86 | 84 | 82 | | | |
| 5 | 98 | 91 | 86 | 82 | 96 | 90 | 85 | 82 | 88 | 84 | 81 | 86 | 83 | 80 | 85 | 82 | 80 | 79 | | | |
| 6 | 94 | 86 | 82 | 78 | 93 | 86 | 81 | 78 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 75 | | | |
| 7 | 90 | 83 | 78 | 74 | 89 | 82 | 77 | 74 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 76 | 73 | 72 | | | |
| 8 | 87 | 79 | 74 | 71 | 86 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 69 | | | |
| 9 | 84 | 76 | 71 | 68 | 83 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 73 | 70 | 67 | 66 | | | |
| 10 | 81 | 73 | 68 | 65 | 80 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 68 | 65 | 71 | 67 | 65 | 64 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 773026 |
| 5° | 758949 |
| 10° | 674664 |
| 15° | 530617 |
| 20° | 353095 |
| 25° | 202711 |
| 30° | 102380 |
| 35° | 48185 |
| 40° | 19366 |
| 45° | 9586 |
| 50° | 5303 |
| 55° | 3714 |
| 60° | 3409 |
| 65° | 2016 |
| 70° | 2492 |
| 75° | 1646 |
| 80° | 2454 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 178.8 | 20.9 |
| 10°-20° | 358.4 | 42.0 |
| 20°-30° | 223.0 | 26.1 |
| 30°-40° | 68.5 | 8.0 |
| 40°-50° | 15.1 | 1.8 |
| 50°-60° | 5.4 | 0.6 |
| 60°-70° | 2.7 | 0.3 |
| 70°-80° | 1.6 | 0.2 |
| 80°-90° | 0.4 | 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° | 760.2 | 89.0 |
| 0°-40° | 828.7 | 97.0 |
| 0°-60° | 849.2 | 99.4 |
| 0°-90° | 853.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 853.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1996 | |
| 5° | 1952 | 179 |
| 15° | 1323 | 358 |
| 25° | 474 | 223 |
| 35° | 102 | 69 |
| 45° | 18 | 15 |
| 55° | 6 | 5 |
| 65° | 2 | 3 |
| 75° | 1 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1995.7 |
| 2.5° | 1987.0 |
| 5° | 1951.9 |
| 7.5° | 1863.2 |
| 10° | 1715.3 |
| 12.5° | 1537.9 |
| 15° | 1323.2 |
| 17.5° | 1088.8 |
| 20° | 856.6 |
| 22.5° | 649.5 |
| 25° | 474.3 |
| 27.5° | 334.1 |
| 30° | 228.9 |
| 32.5° | 154.4 |
| 35° | 101.9 |
| 37.5° | 61.3 |
| 40° | 38.3 |
| 42.5° | 26.3 |
| 45° | 17.5 |
| 47.5° | 12.0 |
| 50° | 8.8 |
| 52.5° | 7.7 |
| 55° | 5.5 |
| 57.5° | 4.4 |
| 60° | 4.4 |
| 62.5° | 3.3 |
| 65° | 2.2 |
| 67.5° | 2.2 |
| 70° | 2.2 |
| 72.5° | 2.2 |
| 75° | 1.1 |
| 77.5° | 1.1 |
| 80° | 1.1 |
| 82.5° | 1.1 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)