

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: P225449

Luminaire Tested: **LSRWM2B10FL409024D010 2LBDLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14833)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSRWM2B10FL409024D010 2LBDLC*MB
Description: 1000 Lumen, 2inch Portfolio LED Cylinder
FLOOD OPTIC
LENSED CAST ROUND TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 672.4 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

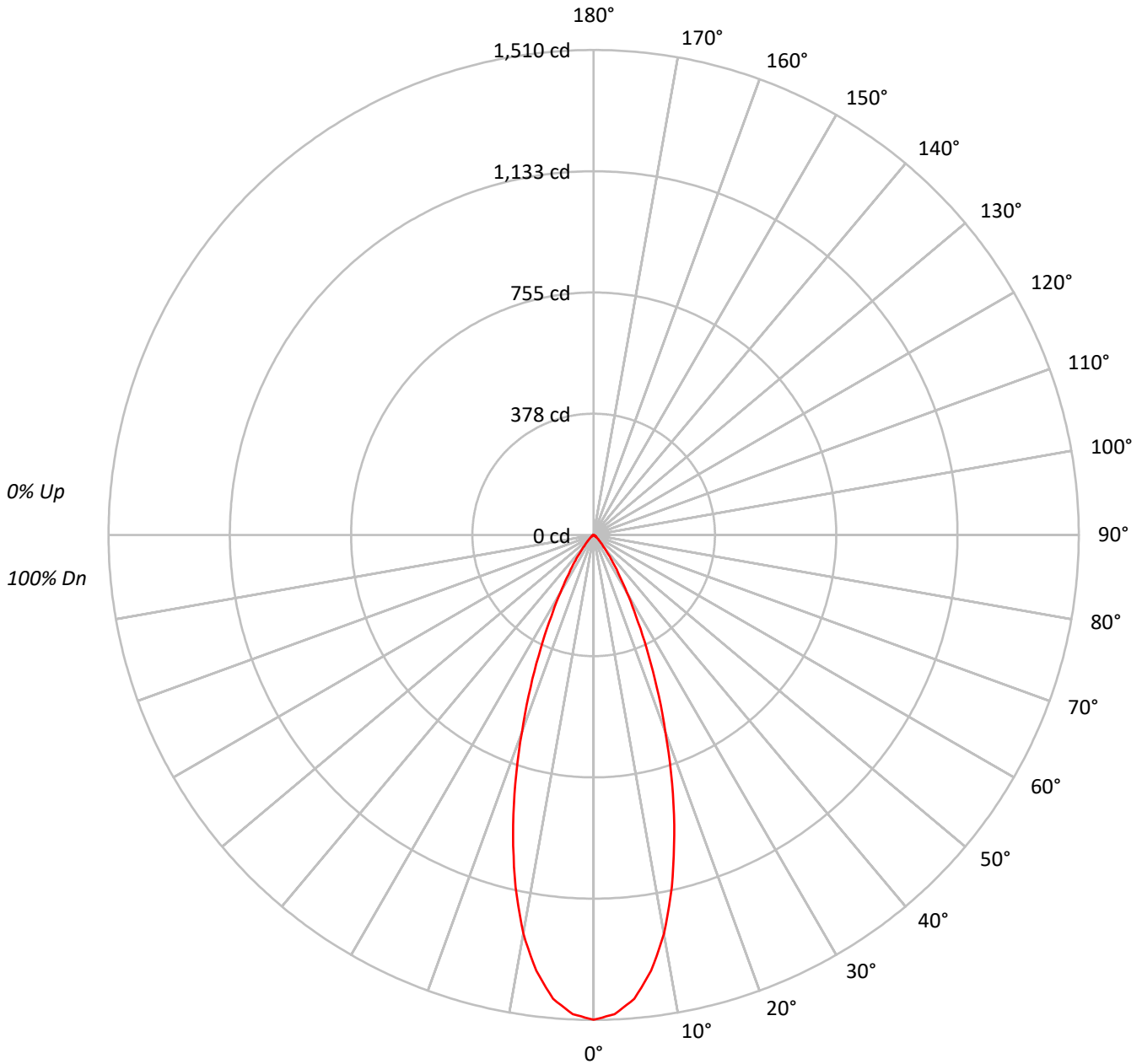
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 |
| 1 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 | | | 95 |
| 2 | 110 | 105 | 102 | 99 | 107 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 93 | 92 | 90 | | | 90 |
| 3 | 105 | 100 | 95 | 92 | 103 | 98 | 94 | 91 | 96 | 92 | 90 | 93 | 91 | 88 | 91 | 89 | 87 | 86 | | | 86 |
| 4 | 101 | 94 | 90 | 86 | 99 | 93 | 89 | 86 | 91 | 87 | 85 | 89 | 86 | 84 | 88 | 85 | 83 | 81 | | | 81 |
| 5 | 97 | 90 | 85 | 81 | 95 | 89 | 84 | 81 | 87 | 83 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 77 | | | 77 |
| 6 | 93 | 85 | 80 | 77 | 92 | 85 | 80 | 76 | 83 | 79 | 76 | 82 | 78 | 75 | 81 | 77 | 75 | 74 | | | 74 |
| 7 | 89 | 81 | 76 | 73 | 88 | 81 | 76 | 73 | 80 | 75 | 72 | 79 | 75 | 72 | 78 | 74 | 72 | 70 | | | 70 |
| 8 | 86 | 78 | 73 | 69 | 85 | 77 | 73 | 69 | 76 | 72 | 69 | 75 | 72 | 69 | 75 | 71 | 68 | 67 | | | 67 |
| 9 | 83 | 75 | 70 | 66 | 82 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 69 | 66 | 72 | 68 | 65 | 64 | | | 64 |
| 10 | 80 | 72 | 67 | 63 | 79 | 71 | 66 | 63 | 70 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 63 | 62 | | | 62 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 584699 |
| 5° | 563758 |
| 10° | 495821 |
| 15° | 388619 |
| 20° | 269170 |
| 25° | 165827 |
| 30° | 92272 |
| 35° | 49225 |
| 40° | 24423 |
| 45° | 12435 |
| 50° | 6870 |
| 55° | 4457 |
| 60° | 2169 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 132.2 | 19.7 |
| 10°-20° | 264.7 | 39.4 |
| 20°-30° | 180.8 | 26.9 |
| 30°-40° | 68.9 | 10.3 |
| 40°-50° | 19.2 | 2.8 |
| 50°-60° | 6.0 | 0.9 |
| 60°-70° | 0.6 | 0.1 |
| 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° | 577.8 | 85.9 |
| 0°-40° | 646.7 | 96.2 |
| 0°-60° | 671.8 | 99.9 |
| 0°-90° | 672.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 672.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1510 | |
| 5° | 1450 | 132 |
| 15° | 969 | 265 |
| 25° | 388 | 181 |
| 35° | 104 | 69 |
| 45° | 23 | 19 |
| 55° | 7 | 6 |
| 65° | 0 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1509.5 |
| 2.5° | 1493.4 |
| 5° | 1449.9 |
| 7.5° | 1368.5 |
| 10° | 1260.6 |
| 12.5° | 1123.4 |
| 15° | 969.1 |
| 17.5° | 811.1 |
| 20° | 653.0 |
| 22.5° | 512.9 |
| 25° | 388.0 |
| 27.5° | 284.9 |
| 30° | 206.3 |
| 32.5° | 146.7 |
| 35° | 104.1 |
| 37.5° | 72.9 |
| 40° | 48.3 |
| 42.5° | 32.2 |
| 45° | 22.7 |
| 47.5° | 16.1 |
| 50° | 11.4 |
| 52.5° | 8.5 |
| 55° | 6.6 |
| 57.5° | 4.7 |
| 60° | 2.8 |
| 62.5° | 0.9 |
| 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)