

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: P274418

Luminaire Tested: **LD6B10DE010W2N2050 EU6B1020W2N902050 6LBS0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35136)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10DE010W2N2050 EU6B1020W2N902050 6LBS0H
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, SHALLOW WITH HAZE FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 898.0 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

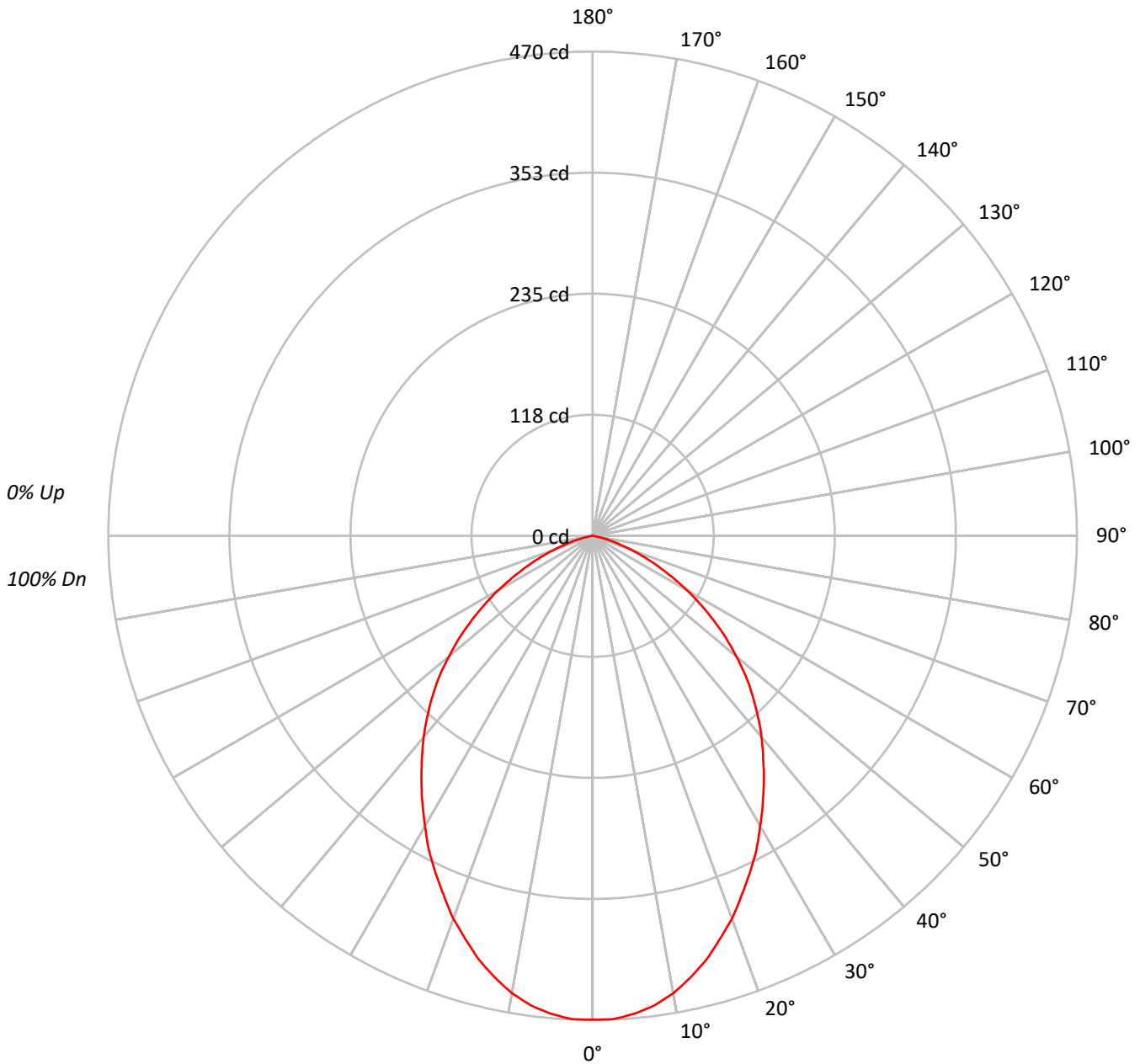
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | |
| 2 | 102 | 96 | 90 | 85 | 100 | 94 | 88 | 84 | 90 | 86 | 82 | 87 | 83 | 80 | 84 | 81 | 79 | 77 | | | |
| 3 | 95 | 85 | 78 | 73 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 53 | 51 | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 54 | 49 | 60 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | |
| 7 | 70 | 58 | 50 | 44 | 68 | 57 | 49 | 44 | 55 | 49 | 44 | 54 | 48 | 43 | 53 | 47 | 43 | 41 | | | |
| 8 | 65 | 53 | 45 | 40 | 64 | 52 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 | | | |
| 9 | 61 | 49 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 34 | | | |
| 10 | 58 | 45 | 38 | 33 | 56 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 33 | 42 | 37 | 33 | 31 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 30644 |
| 5° | 30499 |
| 10° | 29871 |
| 15° | 28786 |
| 20° | 27459 |
| 25° | 25979 |
| 30° | 24506 |
| 35° | 23073 |
| 40° | 21726 |
| 45° | 20252 |
| 50° | 18462 |
| 55° | 16311 |
| 60° | 13805 |
| 65° | 10837 |
| 70° | 7725 |
| 75° | 4235 |
| 80° | 751 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 4.9 |
| 10°-20° | 119.6 | 13.3 |
| 20°-30° | 166.1 | 18.5 |
| 30°-40° | 181.2 | 20.2 |
| 40°-50° | 169.0 | 18.8 |
| 50°-60° | 128.3 | 14.3 |
| 60°-70° | 70.2 | 7.8 |
| 70°-80° | 19.3 | 2.2 |
| 80°-90° | 0.3 | 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° | 329.6 | 36.7 |
| 0°-40° | 510.8 | 56.9 |
| 0°-60° | 808.2 | 90.0 |
| 0°-90° | 898.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 898.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 470 | |
| 5° | 466 | 44 |
| 15° | 426 | 120 |
| 25° | 361 | 166 |
| 35° | 290 | 181 |
| 45° | 220 | 169 |
| 55° | 143 | 128 |
| 65° | 70 | 70 |
| 75° | 17 | 19 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 469.7 |
| 2.5° | 469.7 |
| 5° | 465.7 |
| 7.5° | 459.8 |
| 10° | 450.9 |
| 12.5° | 439.0 |
| 15° | 426.2 |
| 17.5° | 410.4 |
| 20° | 395.5 |
| 22.5° | 377.7 |
| 25° | 360.9 |
| 27.5° | 344.1 |
| 30° | 325.3 |
| 32.5° | 307.5 |
| 35° | 289.7 |
| 37.5° | 271.9 |
| 40° | 255.1 |
| 42.5° | 237.3 |
| 45° | 219.5 |
| 47.5° | 201.7 |
| 50° | 181.9 |
| 52.5° | 163.2 |
| 55° | 143.4 |
| 57.5° | 124.6 |
| 60° | 105.8 |
| 62.5° | 87.0 |
| 65° | 70.2 |
| 67.5° | 54.4 |
| 70° | 40.5 |
| 72.5° | 27.7 |
| 75° | 16.8 |
| 77.5° | 7.9 |
| 80° | 2.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)