

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: P274414

Luminaire Tested: **LD6B20DE010W2N2050 EU6B1020W2N902050 6LBS0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20DE010W2N2050 EU6B1020W2N902050 6LBS0LI
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, SHALLOW WITH SPECULAR FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1630.3 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1.04
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

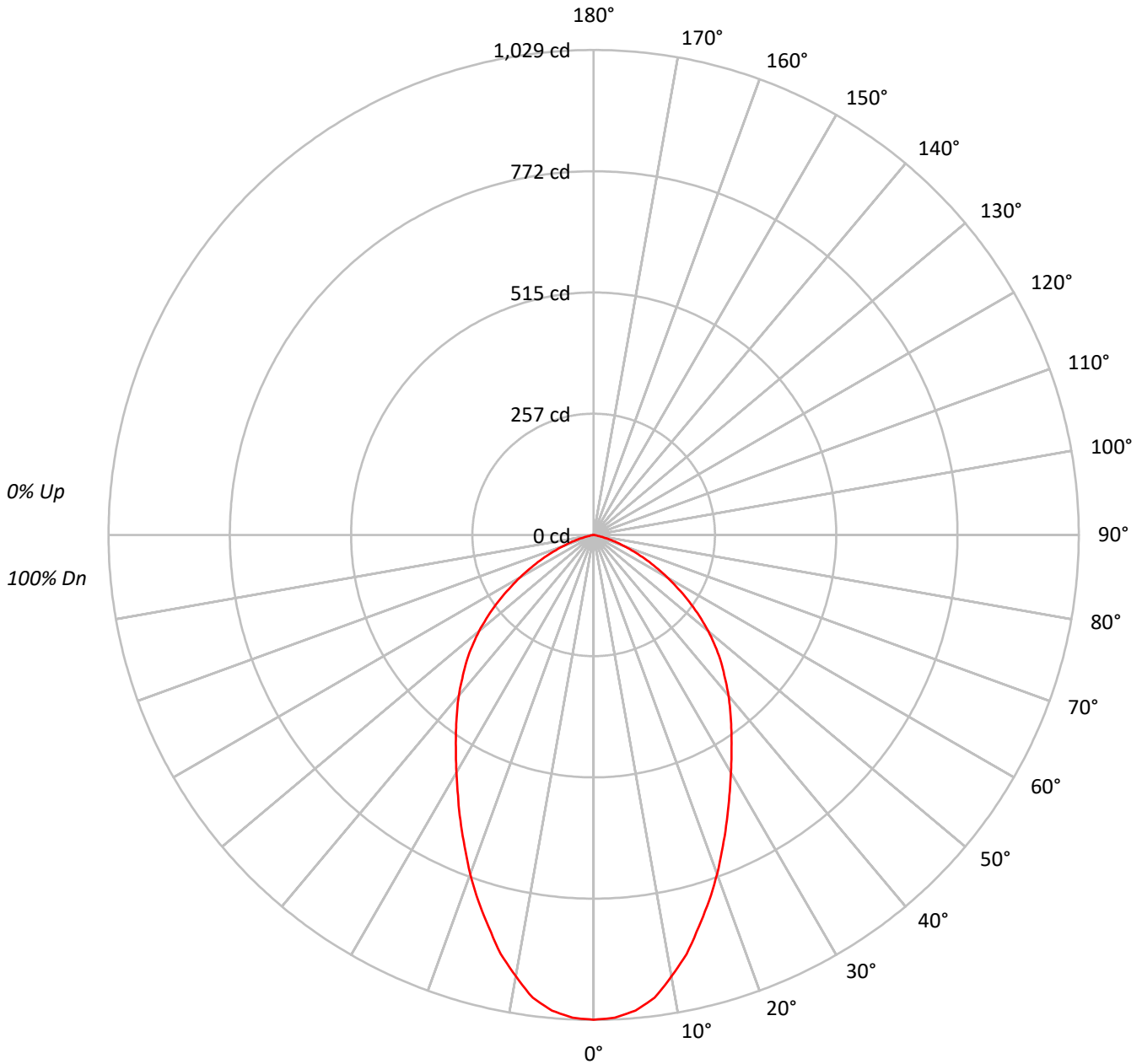
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 | | | |
| 2 | 103 | 96 | 91 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 68 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 77 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 62 | 60 | | | |
| 5 | 82 | 71 | 63 | 57 | 80 | 70 | 62 | 57 | 67 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 53 | | | |
| 6 | 76 | 64 | 56 | 51 | 74 | 63 | 56 | 51 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | 47 | | | |
| 7 | 71 | 59 | 51 | 46 | 70 | 58 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | | | |
| 8 | 67 | 54 | 47 | 41 | 65 | 54 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | | | |
| 9 | 63 | 50 | 43 | 38 | 61 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 37 | 47 | 41 | 37 | 36 | | | |
| 10 | 59 | 47 | 40 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 33 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 67120 |
| 5° | 66354 |
| 10° | 62994 |
| 15° | 58140 |
| 20° | 53147 |
| 25° | 48122 |
| 30° | 43836 |
| 35° | 40555 |
| 40° | 37907 |
| 45° | 35319 |
| 50° | 32174 |
| 55° | 28174 |
| 60° | 23500 |
| 65° | 18448 |
| 70° | 12876 |
| 75° | 6982 |
| 80° | 1315 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.8 | 5.8 |
| 10°-20° | 241.3 | 14.8 |
| 20°-30° | 307.7 | 18.9 |
| 30°-40° | 319.2 | 19.6 |
| 40°-50° | 294.1 | 18.0 |
| 50°-60° | 221.2 | 13.6 |
| 60°-70° | 119.4 | 7.3 |
| 70°-80° | 32.0 | 2.0 |
| 80°-90° | 0.5 | 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° | 643.9 | 39.5 |
| 0°-40° | 963.0 | 59.1 |
| 0°-60° | 1478.4 | 90.7 |
| 0°-90° | 1630.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1630.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1029 | |
| 5° | 1013 | 95 |
| 15° | 861 | 241 |
| 25° | 668 | 308 |
| 35° | 509 | 319 |
| 45° | 383 | 294 |
| 55° | 248 | 221 |
| 65° | 120 | 119 |
| 75° | 28 | 32 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1028.8 |
| 2.5° | 1025.3 |
| 5° | 1013.2 |
| 7.5° | 990.7 |
| 10° | 950.9 |
| 12.5° | 911.0 |
| 15° | 860.8 |
| 17.5° | 814.0 |
| 20° | 765.5 |
| 22.5° | 715.3 |
| 25° | 668.5 |
| 27.5° | 623.5 |
| 30° | 581.9 |
| 32.5° | 543.8 |
| 35° | 509.2 |
| 37.5° | 476.3 |
| 40° | 445.1 |
| 42.5° | 412.2 |
| 45° | 382.8 |
| 47.5° | 349.9 |
| 50° | 317.0 |
| 52.5° | 282.3 |
| 55° | 247.7 |
| 57.5° | 213.0 |
| 60° | 180.1 |
| 62.5° | 149.0 |
| 65° | 119.5 |
| 67.5° | 91.8 |
| 70° | 67.5 |
| 72.5° | 46.8 |
| 75° | 27.7 |
| 77.5° | 12.1 |
| 80° | 3.5 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)