

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: P204089

Luminaire Tested: **LD6B40D010 EU6B30508050 6LBNMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P204089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B40D010 EU6B30508050 6LBNMW1
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH MATTE WHITE TRIM
WATTAGE D010TR-43.02 W DE010-42.54 W D5LT-42.539 W DMX-41.87 W DL2-41.57
W DL3-44.71 W DLE-39.33 W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3121.7 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

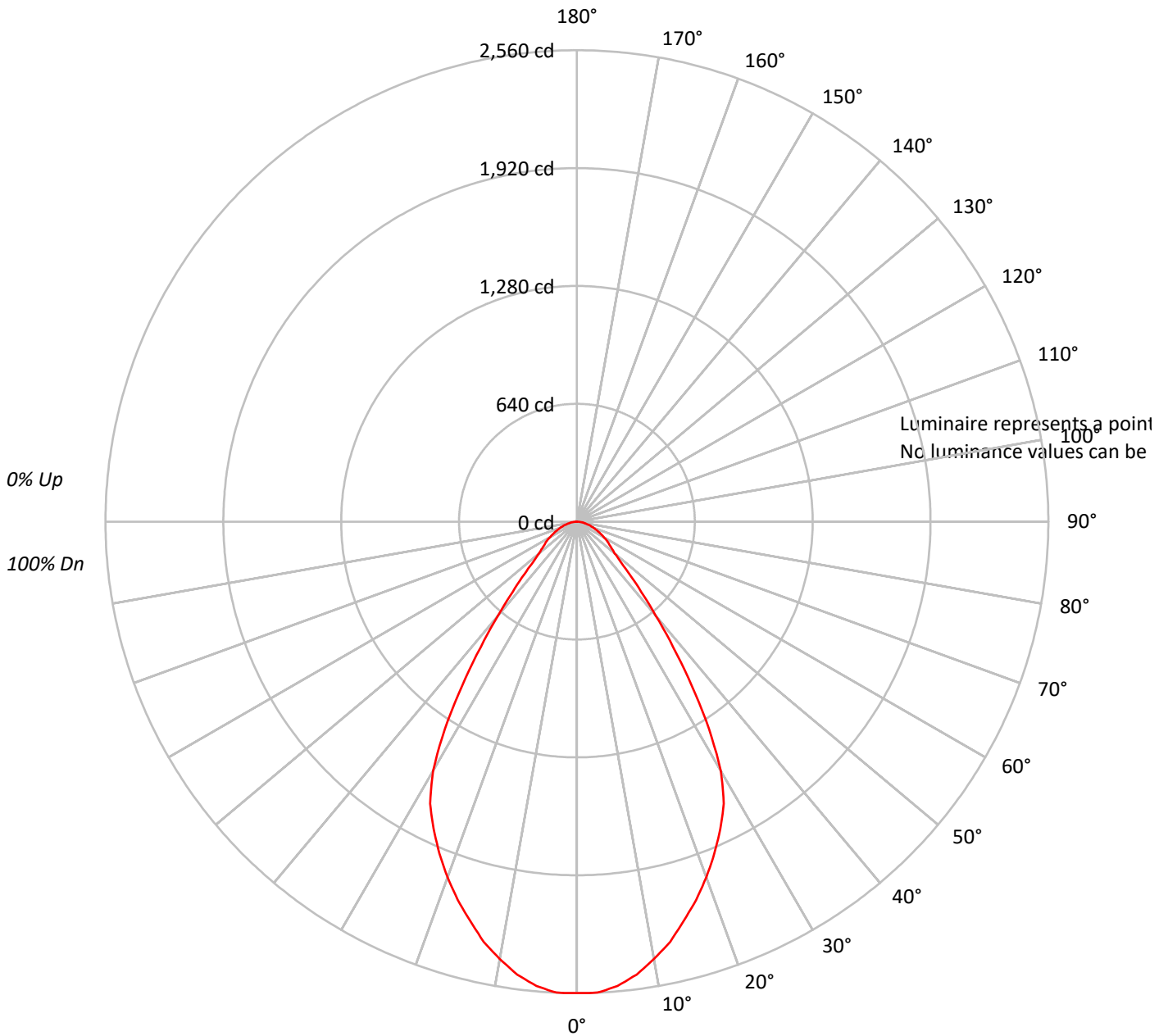
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 108 | 105 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 97 | 95 | 95 | 93 | 92 | 90 | | | |
| 2 | 105 | 99 | 94 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 87 | 91 | 87 | 85 | 88 | 85 | 83 | 81 | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 89 | 83 | 79 | 86 | 81 | 77 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | | | |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 77 | 73 | 69 | 75 | 71 | 68 | 66 | | | |
| 5 | 87 | 77 | 70 | 64 | 85 | 76 | 69 | 64 | 74 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 62 | 61 | | | |
| 6 | 81 | 71 | 64 | 59 | 80 | 70 | 63 | 59 | 68 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 56 | | | |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 61 | 57 | 53 | 51 | | | |
| 8 | 72 | 61 | 55 | 50 | 71 | 61 | 54 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 | | | |
| 9 | 69 | 58 | 51 | 46 | 67 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 46 | 44 | | | |
| 10 | 65 | 54 | 47 | 43 | 64 | 54 | 47 | 43 | 53 | 47 | 43 | 52 | 46 | 43 | 51 | 46 | 43 | 41 | | | |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 237.7 | 7.6 |
| 10°-20° | 630.1 | 20.2 |
| 20°-30° | 841.3 | 26.9 |
| 30°-40° | 678.7 | 21.7 |
| 40°-50° | 325.3 | 10.4 |
| 50°-60° | 192.8 | 6.2 |
| 60°-70° | 128.2 | 4.1 |
| 70°-80° | 68.7 | 2.2 |
| 80°-90° | 18.9 | 0.6 |
| 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° | 1709.2 | 54.8 |
| 0°-40° | 2387.9 | 76.5 |
| 0°-60° | 2906.0 | 93.1 |
| 0°-90° | 3121.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3121.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2560 | |
| 5° | 2530 | 238 |
| 15° | 2243 | 630 |
| 25° | 1841 | 841 |
| 35° | 1087 | 679 |
| 45° | 402 | 325 |
| 55° | 213 | 193 |
| 65° | 129 | 128 |
| 75° | 64 | 69 |
| 85° | 15 | 19 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2560.1 |
| 2.5° | 2560.1 |
| 5° | 2530.4 |
| 7.5° | 2480.7 |
| 10° | 2411.3 |
| 12.5° | 2336.9 |
| 15° | 2242.6 |
| 17.5° | 2153.3 |
| 20° | 2054.1 |
| 22.5° | 1949.9 |
| 25° | 1840.7 |
| 27.5° | 1726.6 |
| 30° | 1562.9 |
| 32.5° | 1334.6 |
| 35° | 1086.6 |
| 37.5° | 858.3 |
| 40° | 664.8 |
| 42.5° | 516.0 |
| 45° | 401.9 |
| 47.5° | 317.5 |
| 50° | 267.9 |
| 52.5° | 238.2 |
| 55° | 213.3 |
| 57.5° | 193.5 |
| 60° | 168.7 |
| 62.5° | 148.8 |
| 65° | 129.0 |
| 67.5° | 109.2 |
| 70° | 94.3 |
| 72.5° | 79.4 |
| 75° | 64.5 |
| 77.5° | 49.6 |
| 80° | 39.7 |
| 82.5° | 29.8 |
| 85° | 14.9 |
| 87.5° | 5.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)