Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P203638

Luminaire Tested: **LD6B15D010 EU6B10208050 6LBNH1**

Issue Date: 3/3/2020

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-41-14 |
| Report Number: | P203638 |
| | 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: | LD6B15D010 EU6B10208050 6LBNH1 |
| Description: | PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT NARROW DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM WATTAGE D010TR-14.39 W DE010-14.29 W D5LT-14.34 W DMX-14.46 W DL2-15.8 W DL3-15.28 W DLE-15.432 W |
| Light Source: | HIGH LUMEN LED |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 954.8 lumens |
| Efficiency: | N/A |
| Efficacy: | 66.8 lumens/watt |
| Spacing Criteria (0/90/45): | 0.78 / 0.78 / 0.84 |
| Luminous Opening: | Point Source (0' x 0' x 0') |
| CIE Type: | Direct |

| | |
|---|---|
| Input Watts (W): | 14.3 |
| 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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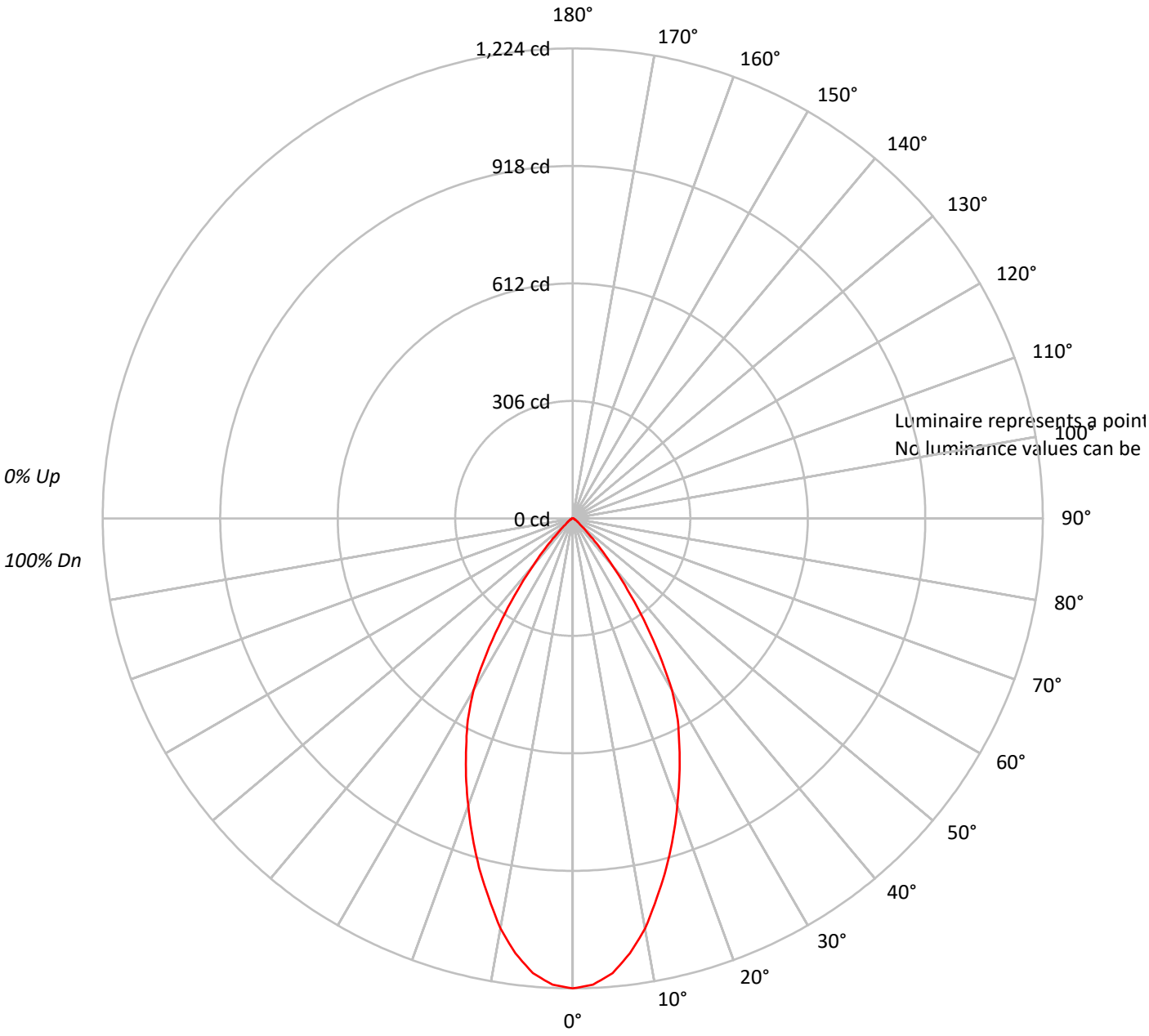
## Luminous Intensity Polar Plot



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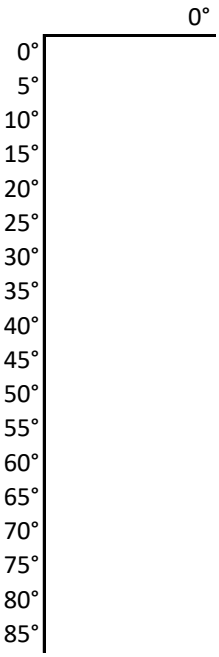
## COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | 20 | | | 20 | | | 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 94 | 98 | 95 | 92 | 95 | 93 | 90 | 92 | 90 | 89 | 87 |
| 3 | 102 | 96 | 91 | 87 | 100 | 95 | 90 | 86 | 92 | 88 | 85 | 90 | 86 | 84 | 87 | 85 | 82 | 81 |
| 4 | 97 | 90 | 84 | 80 | 95 | 89 | 83 | 79 | 86 | 82 | 78 | 84 | 81 | 78 | 83 | 79 | 77 | 75 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 73 | 81 | 76 | 73 | 80 | 75 | 72 | 78 | 74 | 72 | 70 |
| 6 | 88 | 79 | 73 | 69 | 86 | 78 | 72 | 68 | 77 | 72 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 65 |
| 7 | 83 | 74 | 68 | 64 | 82 | 73 | 68 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 61 |
| 8 | 79 | 70 | 64 | 60 | 78 | 69 | 64 | 60 | 68 | 63 | 59 | 67 | 63 | 59 | 66 | 62 | 59 | 58 |
| 9 | 76 | 66 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 56 | 64 | 59 | 56 | 63 | 59 | 55 | 54 |
| 10 | 72 | 62 | 57 | 53 | 71 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 52 | 60 | 55 | 52 | 51 |

## AVERAGE LUMINANCE (cd/sqm):



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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 110.1 | 11.5 |
| 10°-20° | 262.5 | 27.5 |
| 20°-30° | 300.7 | 31.5 |
| 30°-40° | 202.0 | 21.2 |
| 40°-50° | 57.7 | 6.0 |
| 50°-60° | 14.1 | 1.5 |
| 60°-70° | 5.4 | 0.6 |
| 70°-80° | 2.0 | 0.2 |
| 80°-90° | 0.2 | 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° | 673.3 | 70.5 |
| 0°-40° | 875.3 | 91.7 |
| 0°-60° | 947.2 | 99.2 |
| 0°-90° | 954.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 954.8 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | Flux |
|---|---|---|
| 0° | 1224 | |
| 5° | 1189 | 110 |
| 15° | 942 | 262 |
| 25° | 656 | 301 |
| 35° | 322 | 202 |
| 45° | 66 | 58 |
| 55° | 16 | 14 |
| 65° | 5 | 5 |
| 75° | 2 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |

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**CANDELA DISTRIBUTION (FULL):**

| | 0° |
|---|---|
| 0° | 1224.0 |
| 2.5° | 1215.3 |
| 5° | 1189.2 |
| 7.5° | 1142.2 |
| 10° | 1084.7 |
| 12.5° | 1011.6 |
| 15° | 941.9 |
| 17.5° | 868.8 |
| 20° | 795.7 |
| 22.5° | 726.0 |
| 25° | 656.4 |
| 27.5° | 592.0 |
| 30° | 517.1 |
| 32.5° | 417.9 |
| 35° | 322.1 |
| 37.5° | 235.0 |
| 40° | 161.9 |
| 42.5° | 106.2 |
| 45° | 66.2 |
| 47.5° | 40.0 |
| 50° | 24.4 |
| 52.5° | 19.2 |
| 55° | 15.7 |
| 57.5° | 12.2 |
| 60° | 8.7 |
| 62.5° | 7.0 |
| 65° | 5.2 |
| 67.5° | 3.5 |
| 70° | 3.5 |
| 72.5° | 1.7 |
| 75° | 1.7 |
| 77.5° | 1.7 |
| 80° | 1.7 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

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Report Generated By E9808895 / USPTCWHP6082093

0°-180°

(END OF REPORT)