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: P204663

Luminaire Tested: **LSR6B10D010BZ EC6B10209050 6LBPSMW1**

Issue Date: 3/3/2020

**Test Information**

| | |
|---|---|
| Test Method: | LM-41-14 |
| Report Number: | P204663 |
| | 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: | LSR6B10D010BZ EC6B10209050 6LBPSMW1 |
| Description: | PORTFOLIO 6IN CYLINDER |
| | SHALLOW DISTRIBUTION WITH PLASTIC MATTE WHITE TRIM |
| | WATTAGE D010TR-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W DL3-11.1 W DLE-11.39 W |
| Light Source: | HIGH LUMEN LED |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 1005.9 lumens |
| Efficiency: | N/A |
| Efficacy: | 101.6 lumens/watt |
| Spacing Criteria (0/90/45): | 1.24 / 1.24 / 1.34 |
| Luminous Opening: | Point Source (0' x 0' x 0') |
| CIE Type: | Direct |

| | |
|---|---|
| Input Watts (W): | 9.9 |
| 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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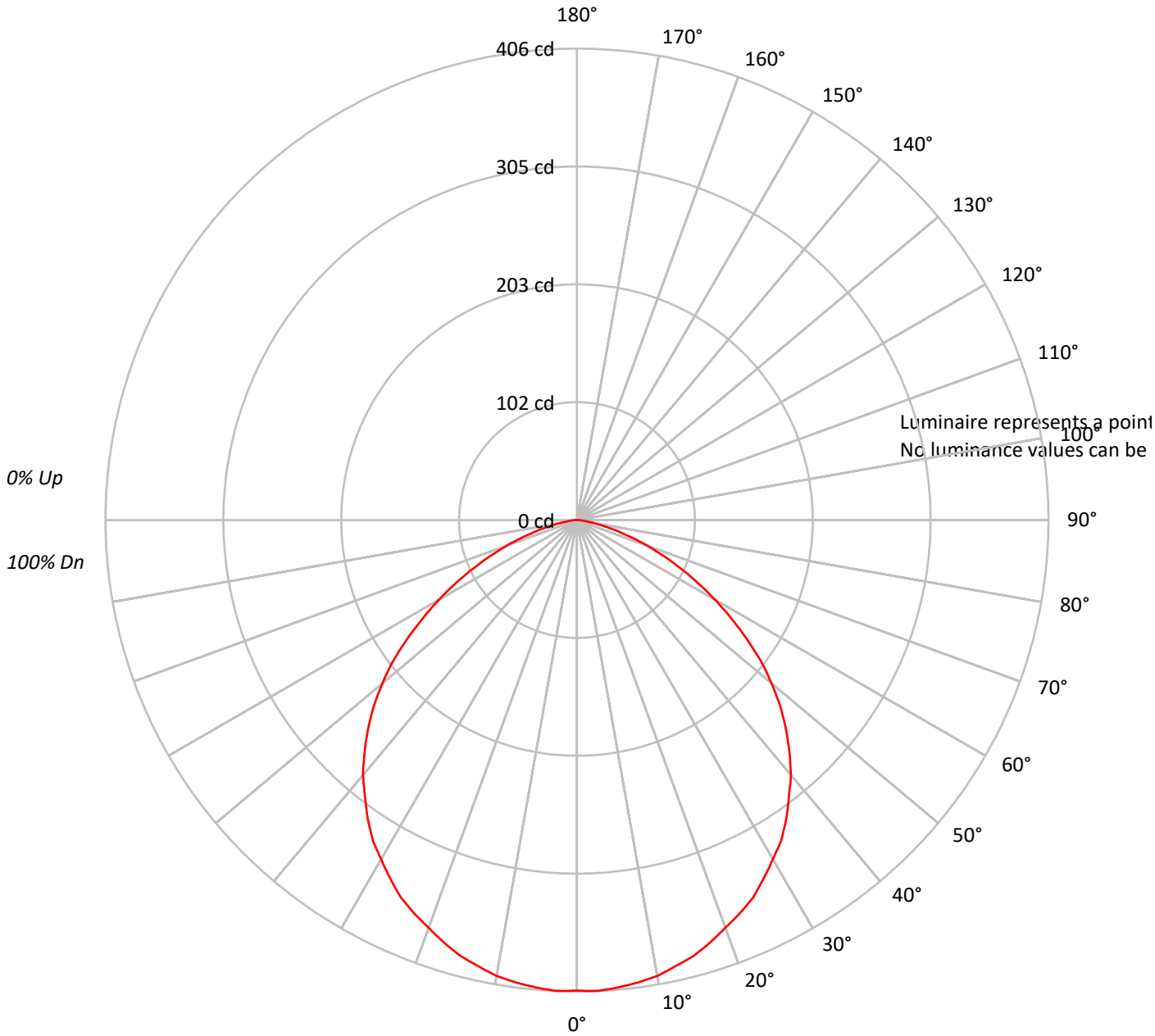
## Luminous Intensity Polar Plot



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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 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 93 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 74 |
| 3 | 93 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 76 | 70 | 66 | 73 | 69 | 65 | 63 |
| 4 | 85 | 74 | 65 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 56 | 54 |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 51 | 61 | 55 | 50 | 59 | 54 | 49 | 47 |
| 6 | 73 | 60 | 51 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | 42 |
| 7 | 67 | 54 | 46 | 40 | 66 | 54 | 46 | 40 | 52 | 45 | 40 | 51 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 50 | 41 | 36 | 61 | 49 | 41 | 36 | 48 | 41 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 |

**AVERAGE LUMINANCE (cd/sqm):**

| | 0° |
|---|---|
| 0° | |
| 5° | |
| 10° | |
| 15° | |
| 20° | |
| 25° | |
| 30° | |
| 35° | |
| 40° | |
| 45° | |
| 50° | |
| 55° | |
| 60° | |
| 65° | |
| 70° | |
| 75° | |
| 80° | |
| 85° | |

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Scaled Data Report

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 38.4 | 3.8 |
| 10°-20° | 109.5 | 10.9 |
| 20°-30° | 164.9 | 16.4 |
| 30°-40° | 196.2 | 19.5 |
| 40°-50° | 195.8 | 19.5 |
| 50°-60° | 159.2 | 15.8 |
| 60°-70° | 98.0 | 9.7 |
| 70°-80° | 38.0 | 3.8 |
| 80°-90° | 6.1 | 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° | 312.7 | 31.1 |
| 0°-40° | 508.9 | 50.6 |
| 0°-60° | 863.9 | 85.9 |
| 0°-90° | 1005.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1005.9 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | Flux |
|---|---|---|
| 0° | 405 | |
| 5° | 404 | 38 |
| 15° | 389 | 109 |
| 25° | 359 | 165 |
| 35° | 314 | 196 |
| 45° | 254 | 196 |
| 55° | 178 | 159 |
| 65° | 98 | 98 |
| 75° | 35 | 38 |
| 85° | 5 | 6 |
| 90° | 0 | |

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**CANDELA DISTRIBUTION (FULL):**

| | 0° |
|---|---|
| 0° | 405.3 |
| 2.5° | 405.9 |
| 5° | 404.1 |
| 7.5° | 401.7 |
| 10° | 398.7 |
| 12.5° | 393.4 |
| 15° | 388.6 |
| 17.5° | 381.4 |
| 20° | 373.7 |
| 22.5° | 366.5 |
| 25° | 358.8 |
| 27.5° | 348.1 |
| 30° | 337.3 |
| 32.5° | 327.2 |
| 35° | 314.1 |
| 37.5° | 299.8 |
| 40° | 286.7 |
| 42.5° | 270.6 |
| 45° | 254.5 |
| 47.5° | 237.2 |
| 50° | 218.7 |
| 52.5° | 199.7 |
| 55° | 178.2 |
| 57.5° | 157.3 |
| 60° | 137.1 |
| 62.5° | 117.4 |
| 65° | 98.3 |
| 67.5° | 80.5 |
| 70° | 63.8 |
| 72.5° | 48.3 |
| 75° | 34.6 |
| 77.5° | 22.6 |
| 80° | 13.7 |
| 82.5° | 8.3 |
| 85° | 4.8 |
| 87.5° | 2.4 |
| 90° | 0.0 |

Report Generated By E9808895 / USPTCWHP6082093

0°-180°

(END OF REPORT)