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

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: P246970

Luminaire Tested: **203-SS-8LED3010-12-CS-LSL**

Issue Date: 3/3/2020

Report Generated By E9808136 / USAU2WHP6039969

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Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P246970 |
| | REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-37) |
| Test Lab: | INNOVATION CENTER(G2) |
| Issue Date: | 3/3/2020 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | LUMIERE |
| Catalog Number: | 203-SS-8LED3010-12-CS-LSL |
| Description: | CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD SILVER, LINEAR SPREAD LENS |
| Light Source: | (1) SORAA 3000K 95 CRI 10° NSP LED<br>SM16-07-10D-930-03 |
| Ballast/Driver: | CHROMA POWER SUPPLY IN0004 |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 224.0 lumens |
| Efficiency: | N/A |
| Efficacy: | 29.9 lumens/watt |
| Spacing Criteria (0/90/45): | 0.21 / 0.89 / 0.26 |
| Luminous Opening: | Circular (Dia: 0.17' x H: 0') |
| CIE Type: | Direct |

| | |
|---|---|
| Input Watts (W): | 7.5 |
| 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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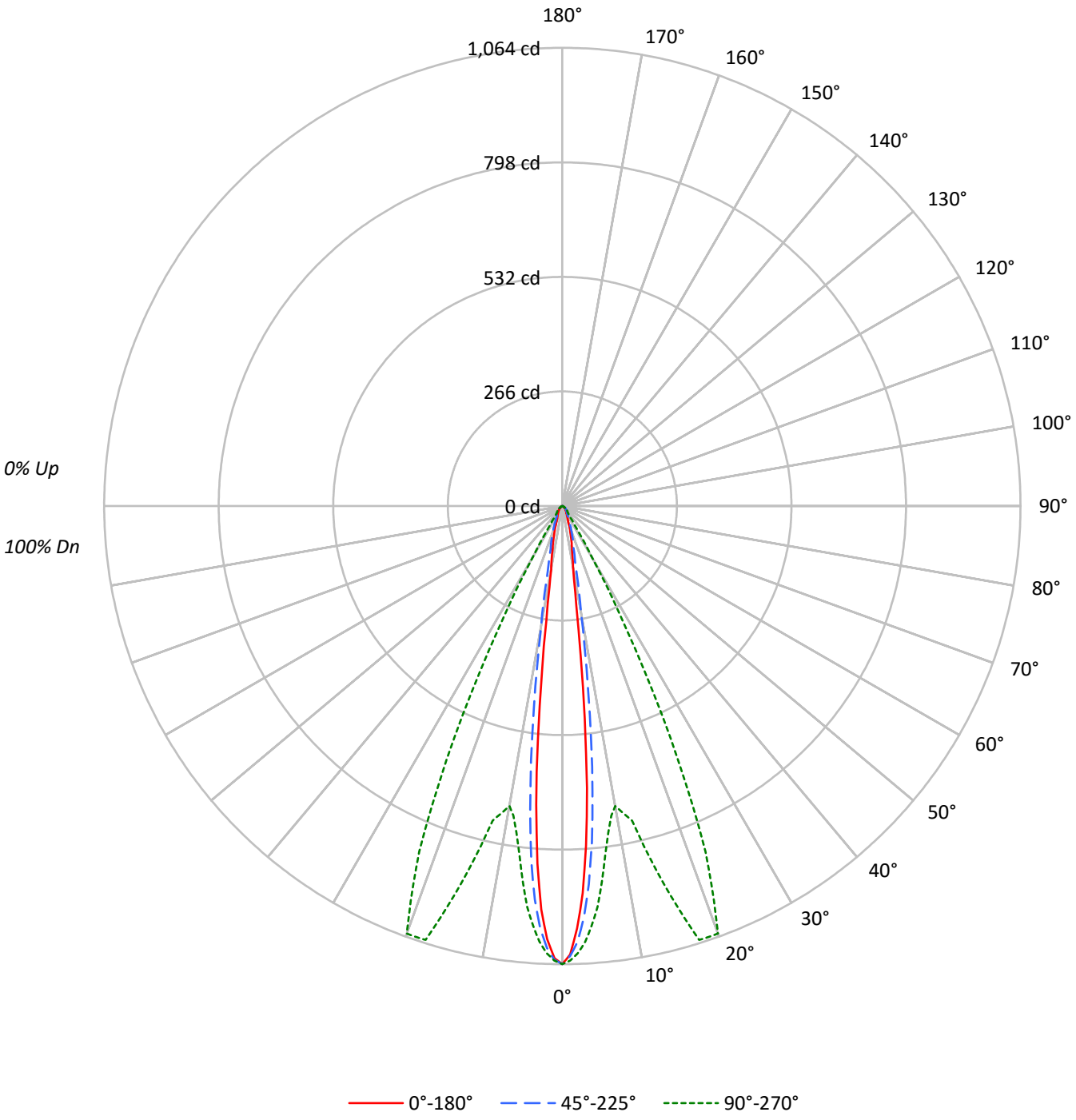
## Luminous Intensity Polar Plot



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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 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 |
| 2 | 110 | 105 | 102 | 99 | 107 | 104 | 100 | 98 | 100 | 98 | 96 | 97 | 95 | 93 | 95 | 93 | 92 | 90 |
| 3 | 105 | 99 | 95 | 92 | 103 | 98 | 94 | 91 | 96 | 92 | 90 | 93 | 91 | 88 | 91 | 89 | 87 | 85 |
| 4 | 101 | 94 | 90 | 86 | 99 | 93 | 89 | 86 | 91 | 88 | 85 | 89 | 86 | 84 | 88 | 85 | 83 | 81 |
| 5 | 97 | 90 | 85 | 81 | 95 | 89 | 84 | 81 | 87 | 83 | 80 | 86 | 82 | 80 | 84 | 81 | 79 | 78 |
| 6 | 93 | 86 | 81 | 77 | 92 | 85 | 80 | 77 | 84 | 80 | 76 | 82 | 79 | 76 | 81 | 78 | 76 | 74 |
| 7 | 90 | 82 | 77 | 74 | 89 | 82 | 77 | 74 | 80 | 76 | 73 | 79 | 76 | 73 | 78 | 75 | 72 | 71 |
| 8 | 87 | 79 | 74 | 71 | 86 | 78 | 74 | 70 | 77 | 73 | 70 | 76 | 73 | 70 | 76 | 72 | 70 | 68 |
| 9 | 84 | 76 | 71 | 68 | 83 | 75 | 71 | 68 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 70 | 67 | 66 |
| 10 | 81 | 73 | 68 | 65 | 80 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 71 | 67 | 65 | 64 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|---|---|---|---|
| 0° | 524857 | 524857 | 524857 |
| 5° | 325339 | 462775 | 344654 |
| 10° | 71040 | 354401 | 75048 |
| 15° | 40301 | 463230 | 40301 |
| 20° | 21422 | 554814 | 20949 |
| 25° | 13991 | 323364 | 14481 |
| 30° | 11109 | 78278 | 11622 |
| 35° | 9095 | 18671 | 9637 |
| 40° | 7986 | 12559 | 7986 |
| 45° | 6838 | 11164 | 6838 |
| 50° | 5450 | 8827 | 5450 |
| 55° | 4559 | 6881 | 4559 |
| 60° | 2664 | 3454 | 2664 |
| 65° | 2101 | 2101 | 1051 |
| 70° | 1298 | 1298 | 1298 |
| 75° | 1716 | 1716 | 1716 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 60.0 | 26.8 |
| 10°-20° | 76.8 | 34.3 |
| 20°-30° | 55.0 | 24.5 |
| 30°-40° | 14.2 | 6.4 |
| 40°-50° | 9.7 | 4.3 |
| 50°-60° | 5.7 | 2.6 |
| 60°-70° | 1.8 | 0.8 |
| 70°-80° | 0.8 | 0.4 |
| 80°-90° | 0.0 | 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° | 191.8 | 85.6 |
| 0°-40° | 206.0 | 92.0 |
| 0°-60° | 221.4 | 98.8 |
| 0°-90° | 224.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 224.0 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 45° | 90° | 135° | 180° | Flux |
|---|---|---|---|---|---|---|
| 0° | 1064 | 1064 | 1064 | 1064 | 1064 | |
| 5° | 657 | 784 | 934 | 826 | 696 | 42 |
| 15° | 79 | 100 | 907 | 106 | 79 | 22 |
| 25° | 26 | 36 | 594 | 37 | 27 | 12 |
| 35° | 15 | 19 | 31 | 19 | 16 | 10 |
| 45° | 10 | 12 | 16 | 12 | 10 | 8 |
| 55° | 5 | 6 | 8 | 6 | 5 | 5 |
| 65° | 2 | 2 | 2 | 2 | 1 | 2 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|---|---|---|---|---|---|---|---|---|---|
| 0° | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 | 1063.8 |
| 1° | 1041.6 | 1043.4 | 1045.2 | 1050.5 | 1055.8 | 1054.0 | 1054.0 | 1055.8 | 1050.5 |
| 2° | 981.3 | 1000.9 | 1012.4 | 1027.4 | 1039.0 | 1035.4 | 1026.6 | 1020.4 | 1006.2 |
| 3° | 899.8 | 930.8 | 955.6 | 992.9 | 1013.3 | 1005.3 | 982.2 | 961.0 | 937.9 |
| 4° | 790.8 | 831.5 | 880.3 | 945.0 | 976.9 | 962.7 | 916.6 | 870.5 | 832.4 |
| 5° | 656.9 | 711.0 | 784.5 | 884.7 | 934.4 | 907.8 | 826.2 | 751.7 | 695.9 |
| 6° | 496.4 | 570.9 | 668.4 | 806.7 | 877.6 | 833.3 | 715.4 | 609.0 | 544.3 |
| 7° | 349.3 | 422.9 | 549.6 | 730.5 | 817.3 | 760.6 | 595.7 | 457.4 | 387.4 |
| 8° | 233.1 | 293.4 | 430.8 | 653.3 | 765.9 | 685.3 | 475.2 | 320.9 | 268.6 |
| 9° | 172.9 | 204.8 | 328.9 | 588.6 | 727.8 | 619.7 | 369.7 | 226.1 | 191.5 |
| 10° | 141.8 | 156.9 | 249.1 | 536.3 | 707.4 | 568.2 | 282.8 | 169.3 | 149.8 |
| 12.5° | 103.7 | 109.9 | 140.1 | 440.6 | 748.2 | 472.5 | 156.9 | 113.5 | 105.5 |
| 15° | 78.9 | 82.4 | 100.2 | 375.9 | 906.9 | 410.4 | 106.4 | 86.0 | 78.9 |
| 17.5° | 57.6 | 62.9 | 79.8 | 314.7 | 1056.7 | 351.9 | 83.3 | 64.7 | 57.6 |
| 20° | 40.8 | 46.1 | 62.1 | 234.9 | 1056.7 | 273.0 | 64.7 | 47.0 | 39.9 |
| 22.5° | 31.9 | 34.6 | 47.9 | 149.8 | 868.8 | 176.4 | 49.6 | 34.6 | 31.0 |
| 25° | 25.7 | 27.5 | 36.3 | 90.4 | 594.0 | 103.7 | 37.2 | 27.5 | 26.6 |
| 27.5° | 22.2 | 23.0 | 29.3 | 59.4 | 318.3 | 64.7 | 29.3 | 23.9 | 23.0 |
| 30° | 19.5 | 20.4 | 23.9 | 39.0 | 137.4 | 39.9 | 23.9 | 21.3 | 20.4 |
| 32.5° | 16.8 | 18.6 | 20.4 | 28.4 | 57.6 | 28.4 | 21.3 | 18.6 | 17.7 |
| 35° | 15.1 | 16.8 | 18.6 | 22.2 | 31.0 | 22.2 | 18.6 | 16.8 | 16.0 |
| 37.5° | 13.3 | 15.1 | 16.8 | 19.5 | 23.9 | 19.5 | 16.8 | 16.0 | 14.2 |
| 40° | 12.4 | 13.3 | 15.1 | 16.8 | 19.5 | 17.7 | 15.1 | 14.2 | 12.4 |
| 42.5° | 10.6 | 12.4 | 13.3 | 15.1 | 17.7 | 15.1 | 14.2 | 12.4 | 11.5 |
| 45° | 9.8 | 10.6 | 12.4 | 13.3 | 16.0 | 14.2 | 12.4 | 11.5 | 9.8 |
| 47.5° | 8.9 | 9.8 | 11.5 | 11.5 | 14.2 | 12.4 | 11.5 | 9.8 | 8.9 |
| 50° | 7.1 | 8.9 | 9.8 | 10.6 | 11.5 | 10.6 | 9.8 | 8.0 | 7.1 |
| 52.5° | 6.2 | 7.1 | 8.9 | 8.9 | 9.8 | 8.9 | 8.0 | 7.1 | 6.2 |
| 55° | 5.3 | 6.2 | 6.2 | 7.1 | 8.0 | 7.1 | 6.2 | 5.3 | 5.3 |
| 57.5° | 4.4 | 4.4 | 5.3 | 5.3 | 5.3 | 5.3 | 4.4 | 4.4 | 3.5 |
| 60° | 2.7 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 2.7 | 2.7 |
| 62.5° | 1.8 | 1.8 | 1.8 | 2.7 | 2.7 | 1.8 | 1.8 | 1.8 | 1.8 |
| 65° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 0.9 |
| 67.5° | 0.9 | 0.9 | 1.8 | 1.8 | 1.8 | 1.8 | 0.9 | 0.9 | 0.9 |
| 70° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 72.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 75° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 77.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)