

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

**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 SM16-07-10D-930-03  
Ballast/Driver: CHROMA POWER SUPPLY IN0004

**Summary**

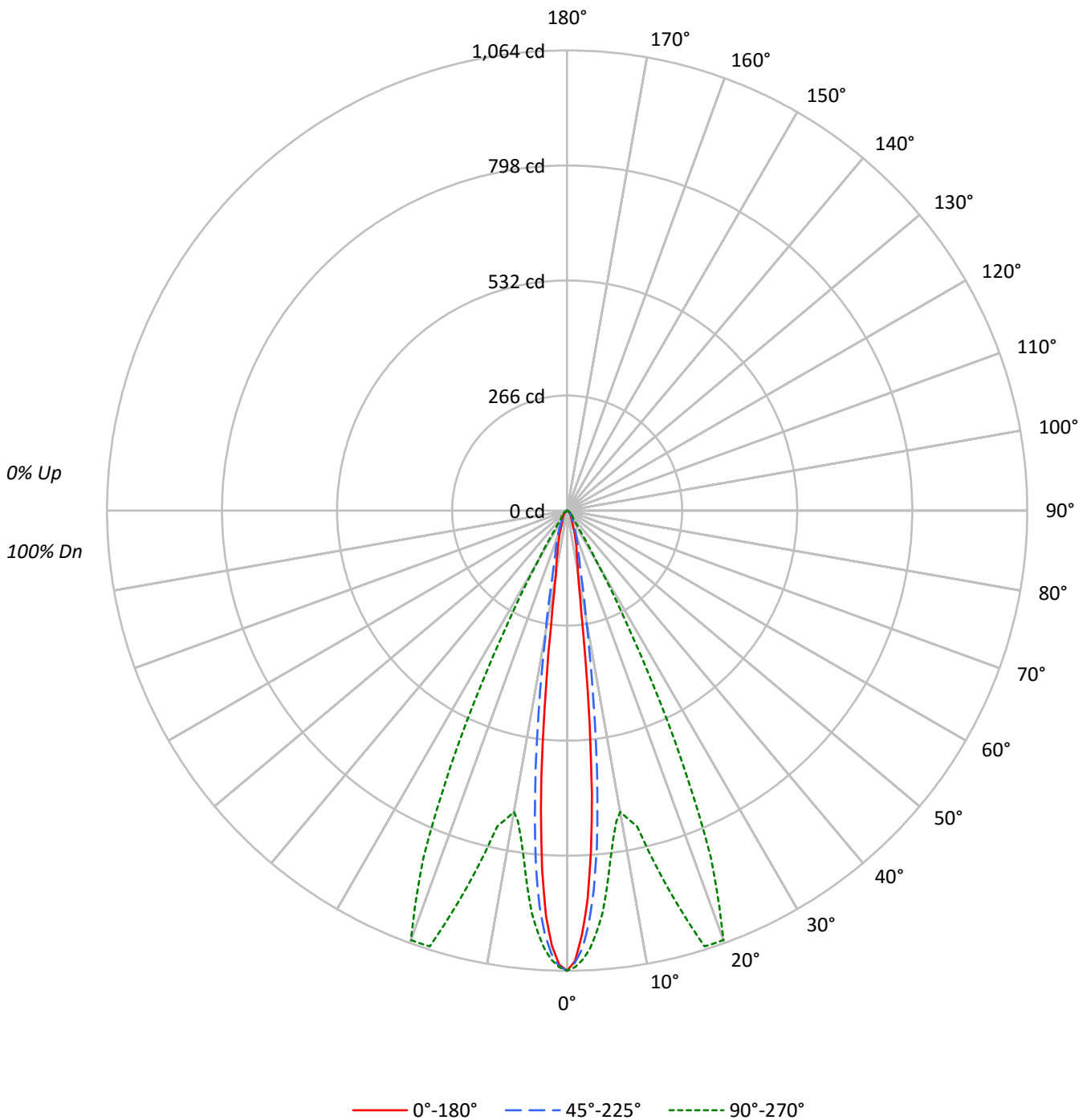
Lumens per Lamp: N/A  
Luminaire Lumens: 224.0 lumens  
Efficiency: N/A  
Efficacy: 29.9 lumens/watt  
Spacing Criteria (0/90/45): 0.21 / 0.89 / 0.26  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 50  | 30  | 10  | 0   |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |  |   |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 95  | 95  | 95  | 95  | 95  | 95  | 95  |  |   |
| 2   | 110 | 105 | 102 | 99  | 107 | 104 | 100 | 98  | 100 | 98  | 96  | 97  | 95  | 93  | 95  | 93  | 92  | 90  | 90  | 90  | 90  | 90  | 90  | 90  |  |   |
| 3   | 105 | 99  | 95  | 92  | 103 | 98  | 94  | 91  | 96  | 92  | 90  | 93  | 91  | 88  | 91  | 89  | 87  | 85  | 85  | 85  | 85  | 85  | 85  | 85  |  |   |
| 4   | 101 | 94  | 90  | 86  | 99  | 93  | 89  | 86  | 91  | 88  | 85  | 89  | 86  | 84  | 88  | 85  | 83  | 81  | 81  | 81  | 81  | 81  | 81  | 81  |  |   |
| 5   | 97  | 90  | 85  | 81  | 95  | 89  | 84  | 81  | 87  | 83  | 80  | 86  | 82  | 80  | 84  | 81  | 79  | 78  | 78  | 78  | 78  | 78  | 78  | 78  |  |   |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 80  | 77  | 84  | 80  | 76  | 82  | 79  | 76  | 81  | 78  | 76  | 74  | 74  | 74  | 74  | 74  | 74  | 74  |  |   |
| 7   | 90  | 82  | 77  | 74  | 89  | 82  | 77  | 74  | 80  | 76  | 73  | 79  | 76  | 73  | 78  | 75  | 72  | 71  | 71  | 71  | 71  | 71  | 71  | 71  |  |   |
| 8   | 87  | 79  | 74  | 71  | 86  | 78  | 74  | 70  | 77  | 73  | 70  | 76  | 73  | 70  | 76  | 72  | 70  | 68  | 68  | 68  | 68  | 68  | 68  | 68  |  |   |
| 9   | 84  | 76  | 71  | 68  | 83  | 75  | 71  | 68  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 66  | 66  | 66  | 66  | 66  | 66  | 66  |  |   |
| 10  | 81  | 73  | 68  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 65  | 64  | 64  | 64  | 64  | 64  | 64  | 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)