

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: G2-1802-569-41

Luminaire Tested: **203-SS-8LED4025-12-CS-LSL**

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-41
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-41)
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/05/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-SS-8LED4025-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

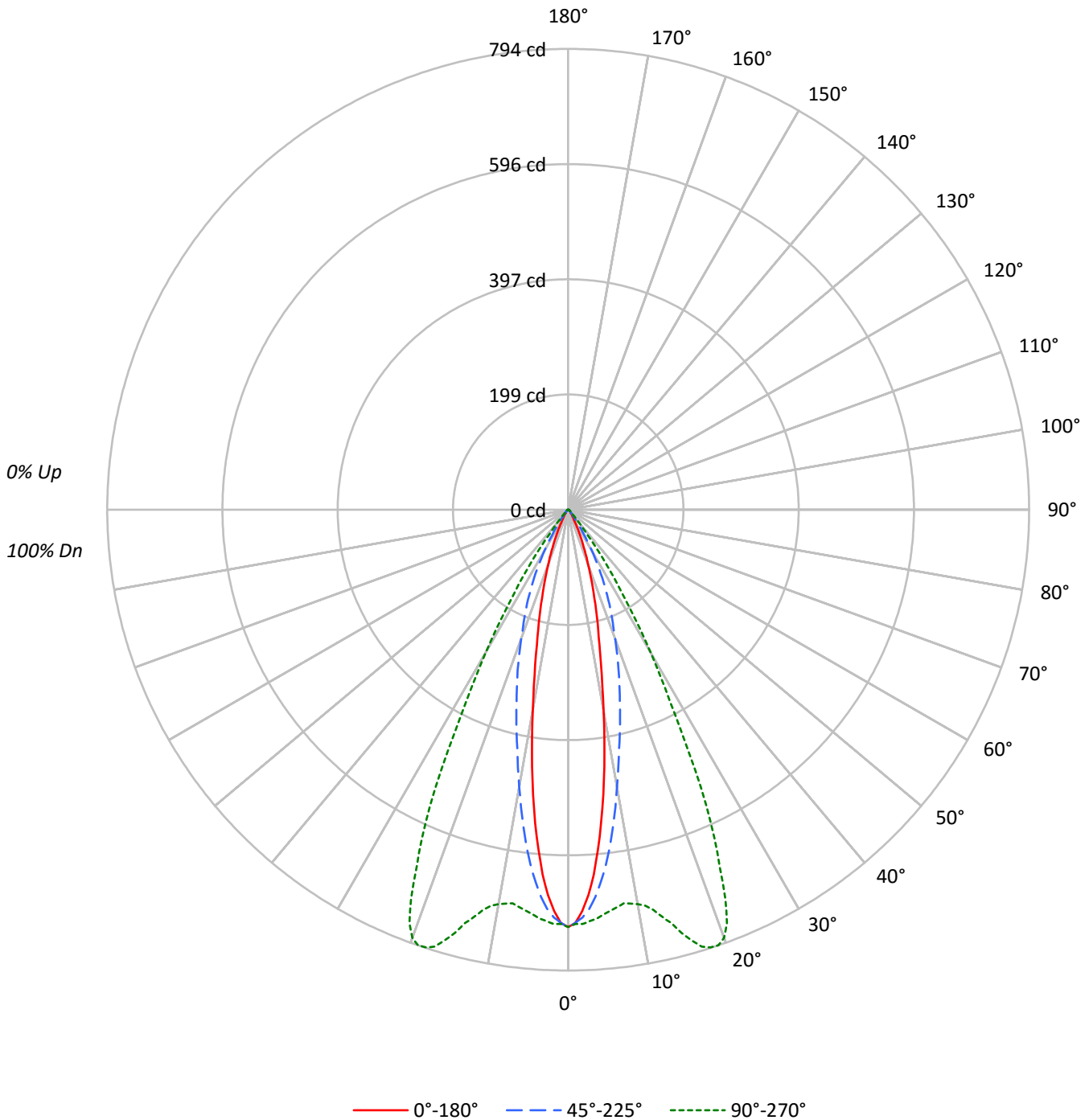
Lumens per Lamp: N/A
Luminaire Lumens: 312.0 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.98 / 0.58
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.4
Input Voltage (V): 12.0
Input Current (Ain): 0.648
Voltage Rise (V): NR
Power Factor: 0.9912
Total Harmonic Distortion (THDi): 27.0%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.0
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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 101 | 99 | 98 | 97 | 96 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 93 | 91 | 90 |
| 3 | 105 | 99 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 92 | 89 | 93 | 90 | 88 | 91 | 88 | 86 | 85 |
| 4 | 100 | 94 | 89 | 85 | 99 | 93 | 88 | 85 | 90 | 87 | 84 | 89 | 85 | 83 | 87 | 84 | 82 | 80 |
| 5 | 96 | 89 | 84 | 80 | 95 | 88 | 83 | 80 | 86 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 78 | 76 |
| 6 | 92 | 84 | 79 | 76 | 91 | 84 | 79 | 75 | 82 | 78 | 75 | 81 | 77 | 74 | 80 | 76 | 74 | 73 |
| 7 | 89 | 81 | 75 | 72 | 87 | 80 | 75 | 71 | 79 | 74 | 71 | 78 | 74 | 71 | 76 | 73 | 70 | 69 |
| 8 | 85 | 77 | 72 | 68 | 84 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 73 | 70 | 67 | 66 |
| 9 | 82 | 73 | 68 | 65 | 81 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 64 | 71 | 67 | 64 | 63 |
| 10 | 79 | 70 | 65 | 62 | 78 | 70 | 65 | 62 | 69 | 65 | 62 | 69 | 64 | 62 | 68 | 64 | 61 | 60 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 354740 | 354740 | 354740 |
| 5° | 291215 | 318950 | 346685 |
| 10° | 175848 | 242981 | 345684 |
| 15° | 97560 | 175710 | 385642 |
| 20° | 53029 | 123910 | 412159 |
| 25° | 26130 | 83835 | 307033 |
| 30° | 10255 | 46716 | 161227 |
| 35° | 6625 | 16865 | 68663 |
| 40° | 4508 | 7085 | 17390 |
| 45° | 3489 | 4186 | 6280 |
| 50° | 3070 | 3838 | 4605 |
| 55° | 2581 | 2581 | 3441 |
| 60° | 1974 | 1974 | 2960 |
| 65° | 1167 | 2335 | 2335 |
| 70° | 1443 | 1443 | 1443 |
| 75° | 1906 | 1906 | 1906 |
| 80° | 0 | 0 | 2841 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.9 | 18.2 |
| 10°-20° | 114.1 | 36.6 |
| 20°-30° | 98.4 | 31.5 |
| 30°-40° | 31.3 | 10.0 |
| 40°-50° | 5.7 | 1.8 |
| 50°-60° | 3.1 | 1.0 |
| 60°-70° | 1.6 | 0.5 |
| 70°-80° | 0.9 | 0.3 |
| 80°-90° | 0.1 | 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° | 269.4 | 86.3 |
| 0°-40° | 300.7 | 96.4 |
| 0°-60° | 309.5 | 99.2 |
| 0°-90° | 312.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 312.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 719 | 719 | 719 | 719 | 719 | |
| 5° | 588 | 610 | 644 | 685 | 700 | 48 |
| 15° | 191 | 232 | 344 | 581 | 755 | 54 |
| 25° | 48 | 67 | 154 | 348 | 564 | 22 |
| 35° | 11 | 13 | 28 | 82 | 114 | 7 |
| 45° | 5 | 5 | 6 | 8 | 9 | 4 |
| 55° | 3 | 3 | 3 | 4 | 4 | 3 |
| 65° | 1 | 1 | 2 | 2 | 2 | 1 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: 203-SS-8LED4025-12-CS-LSL

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 0° | 719 | 719 | 719 | 719 | 719 |
| 1° | 712 | 713 | 712 | 714 | 714 |
| 2° | 692 | 697 | 703 | 712 | 714 |
| 3° | 665 | 674 | 689 | 705 | 710 |
| 4° | 630 | 645 | 669 | 696 | 706 |
| 5° | 588 | 610 | 644 | 685 | 700 |
| 6° | 543 | 569 | 617 | 673 | 695 |
| 7° | 495 | 526 | 586 | 660 | 690 |
| 8° | 447 | 481 | 553 | 644 | 685 |
| 9° | 397 | 436 | 519 | 628 | 687 |
| 10° | 351 | 393 | 485 | 617 | 690 |
| 11° | 309 | 352 | 453 | 606 | 695 |
| 12° | 273 | 317 | 422 | 598 | 705 |
| 13° | 239 | 285 | 395 | 592 | 720 |
| 14° | 213 | 257 | 369 | 587 | 734 |
| 15° | 191 | 232 | 344 | 581 | 755 |
| 16° | 169 | 209 | 321 | 575 | 772 |
| 17° | 149 | 189 | 300 | 567 | 787 |
| 18° | 133 | 169 | 278 | 555 | 793 |
| 19° | 115 | 149 | 257 | 541 | 794 |
| 20° | 101 | 131 | 236 | 522 | 785 |
| 21° | 88 | 115 | 217 | 499 | 763 |
| 22° | 76 | 101 | 202 | 468 | 723 |
| 23° | 65 | 88 | 186 | 434 | 668 |
| 24° | 56 | 77 | 170 | 389 | 620 |
| 25° | 48 | 67 | 154 | 348 | 564 |
| 26° | 40 | 57 | 139 | 311 | 499 |
| 27° | 32 | 48 | 124 | 275 | 429 |
| 28° | 26 | 39 | 109 | 241 | 373 |
| 29° | 21 | 32 | 95 | 210 | 326 |
| 30° | 18 | 26 | 82 | 186 | 283 |
| 32.5° | 14 | 17 | 50 | 131 | 181 |
| 35° | 11 | 13 | 28 | 82 | 114 |
| 37.5° | 8 | 9 | 17 | 41 | 53 |
| 40° | 7 | 8 | 11 | 20 | 27 |
| 42.5° | 6 | 6 | 8 | 11 | 14 |
| 45° | 5 | 5 | 6 | 8 | 9 |
| 47.5° | 4 | 4 | 5 | 6 | 7 |
| 50° | 4 | 4 | 5 | 5 | 6 |
| 52.5° | 3 | 4 | 4 | 4 | 4 |
| 55° | 3 | 3 | 3 | 4 | 4 |
| 57.5° | 3 | 3 | 3 | 3 | 3 |
| 60° | 2 | 2 | 2 | 3 | 3 |
| 62.5° | 1 | 2 | 2 | 2 | 2 |
| 65° | 1 | 1 | 2 | 2 | 2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|----|-------|-----|-------|-----|
| 67.5° | 1 | 1 | 1 | 1 | 2 |
| 70° | 1 | 1 | 1 | 1 | 1 |
| 72.5° | 1 | 1 | 1 | 1 | 1 |
| 75° | 1 | 1 | 1 | 1 | 1 |
| 77.5° | 0 | 1 | 1 | 1 | 1 |
| 80° | 0 | 0 | 0 | 1 | 1 |
| 82.5° | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)