

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: G2-1802-569-45

Luminaire Tested: **203-SS-8LED4036-12-CS-LSL**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-45
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-45)
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/06/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-SS-8LED4036-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

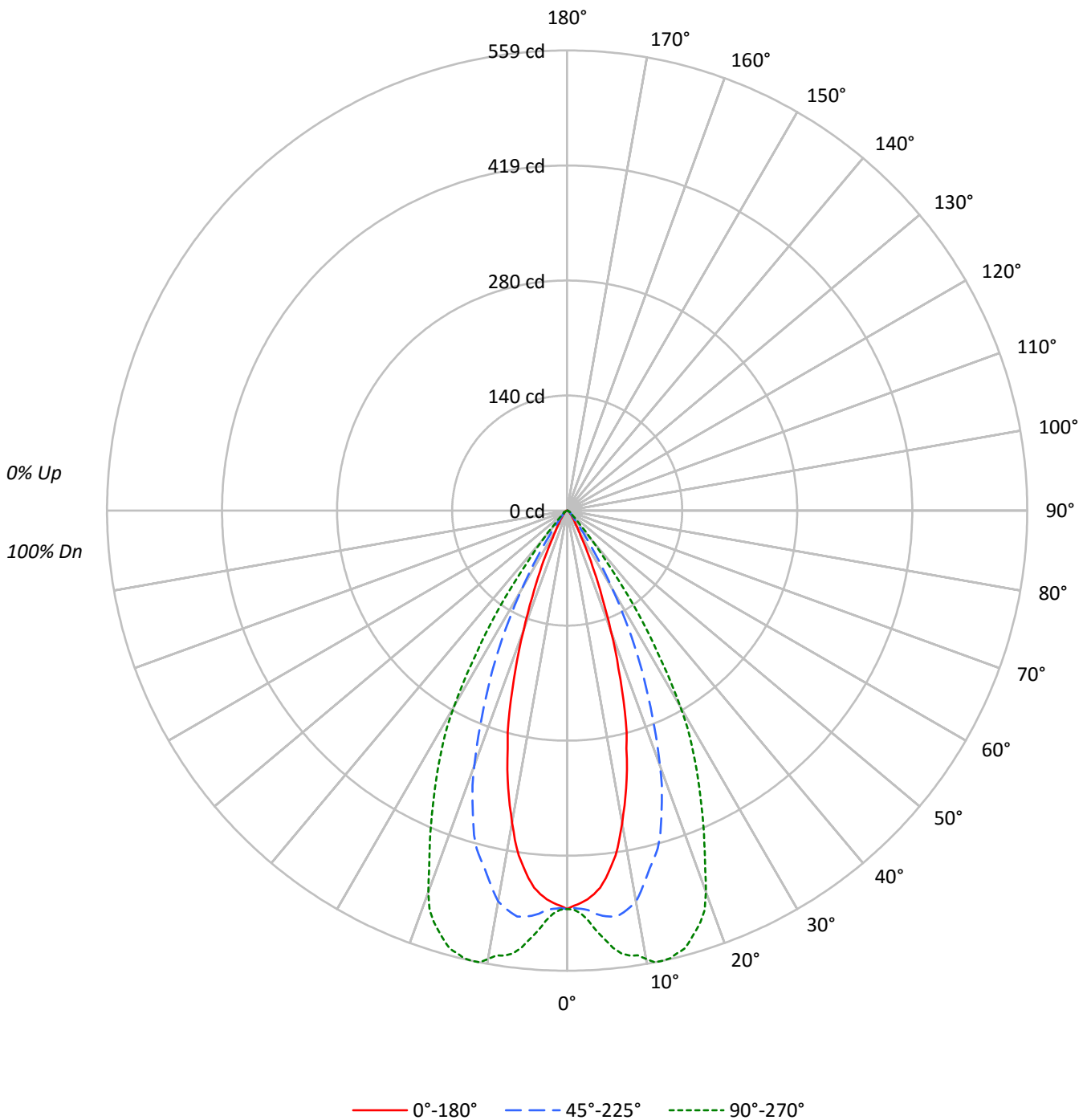
Lumens per Lamp: N/A
Luminaire Lumens: 317.4 lumens
Efficiency: N/A
Efficacy: 41.8 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.02 / 0.74
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.6
Input Voltage (V): 12.0
Input Current (Ain): 0.669
Voltage Rise (V): NR
Power Factor: 0.9907
Total Harmonic Distortion (THDi): 27.4
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.2
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: G2-1802-569-45

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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 | | | |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | | | | | 94 | | | |
| 2 | 109 | 104 | 100 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 89 | | | | | 89 | | | |
| 3 | 104 | 98 | 93 | 90 | 102 | 97 | 92 | 89 | 94 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | | | | | 83 | | | |
| 4 | 99 | 92 | 87 | 83 | 98 | 91 | 87 | 83 | 89 | 85 | 82 | 87 | 84 | 81 | 85 | 82 | 80 | 79 | | | | | 79 | | | |
| 5 | 95 | 87 | 82 | 78 | 93 | 86 | 81 | 78 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 76 | 74 | | | | | 74 | | | |
| 6 | 91 | 83 | 77 | 73 | 89 | 82 | 77 | 73 | 80 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 72 | 70 | | | | | 70 | | | |
| 7 | 87 | 78 | 73 | 69 | 86 | 78 | 73 | 69 | 77 | 72 | 69 | 75 | 71 | 68 | 74 | 71 | 68 | 67 | | | | | 67 | | | |
| 8 | 83 | 75 | 69 | 65 | 82 | 74 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 63 | | | | | 63 | | | |
| 9 | 80 | 71 | 66 | 62 | 79 | 71 | 65 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 68 | 64 | 61 | 60 | | | | | 60 | | | |
| 10 | 77 | 68 | 63 | 59 | 76 | 67 | 62 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 65 | 61 | 59 | 57 | | | | | 57 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 238796 | 238796 | 238796 |
| 5° | 227822 | 244661 | 259023 |
| 10° | 192881 | 241478 | 277048 |
| 15° | 142509 | 217083 | 281442 |
| 20° | 81382 | 173264 | 258846 |
| 25° | 37018 | 117587 | 208499 |
| 30° | 15382 | 63237 | 156669 |
| 35° | 9035 | 23490 | 84925 |
| 40° | 5797 | 9661 | 28983 |
| 45° | 4186 | 5582 | 10466 |
| 50° | 3838 | 4605 | 5373 |
| 55° | 3441 | 3441 | 4301 |
| 60° | 2960 | 2960 | 3947 |
| 65° | 2335 | 2335 | 2335 |
| 70° | 1443 | 1443 | 2885 |
| 75° | 1906 | 1906 | 1906 |
| 80° | 0 | 2841 | 2841 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.5 | 14.7 |
| 10°-20° | 115.0 | 36.2 |
| 20°-30° | 100.0 | 31.5 |
| 30°-40° | 40.4 | 12.7 |
| 40°-50° | 8.1 | 2.6 |
| 50°-60° | 3.9 | 1.2 |
| 60°-70° | 2.2 | 0.7 |
| 70°-80° | 1.1 | 0.3 |
| 80°-90° | 0.2 | 0.1 |
| 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° | 261.5 | 82.4 |
| 0°-40° | 301.9 | 95.1 |
| 0°-60° | 314.0 | 98.9 |
| 0°-90° | 317.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 317.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 484 | 484 | 484 | 484 | 484 | |
| 5° | 460 | 471 | 494 | 515 | 523 | 42 |
| 15° | 279 | 327 | 425 | 517 | 551 | 74 |
| 25° | 68 | 93 | 216 | 339 | 383 | 33 |
| 35° | 15 | 17 | 39 | 109 | 141 | 10 |
| 45° | 6 | 7 | 8 | 12 | 15 | 5 |
| 55° | 4 | 4 | 4 | 5 | 5 | 3 |
| 65° | 2 | 2 | 2 | 2 | 2 | 2 |
| 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-8LED4036-12-CS-LSL

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 0° | 484 | 484 | 484 | 484 | 484 |
| 1° | 480 | 482 | 483 | 484 | 485 |
| 2° | 477 | 479 | 484 | 489 | 490 |
| 3° | 473 | 477 | 486 | 496 | 499 |
| 4° | 467 | 475 | 491 | 506 | 512 |
| 5° | 460 | 471 | 494 | 515 | 523 |
| 6° | 449 | 466 | 496 | 523 | 534 |
| 7° | 436 | 457 | 497 | 530 | 542 |
| 8° | 423 | 446 | 493 | 533 | 546 |
| 9° | 405 | 433 | 488 | 530 | 547 |
| 10° | 385 | 419 | 482 | 529 | 553 |
| 11° | 365 | 402 | 471 | 531 | 559 |
| 12° | 345 | 384 | 458 | 533 | 559 |
| 13° | 323 | 366 | 446 | 529 | 558 |
| 14° | 298 | 347 | 436 | 524 | 554 |
| 15° | 279 | 327 | 425 | 517 | 551 |
| 16° | 254 | 305 | 410 | 508 | 543 |
| 17° | 228 | 281 | 391 | 497 | 534 |
| 18° | 202 | 254 | 372 | 485 | 525 |
| 19° | 180 | 225 | 353 | 473 | 513 |
| 20° | 155 | 198 | 330 | 459 | 493 |
| 21° | 134 | 172 | 306 | 441 | 468 |
| 22° | 113 | 149 | 282 | 416 | 446 |
| 23° | 96 | 128 | 259 | 388 | 425 |
| 24° | 81 | 109 | 237 | 363 | 404 |
| 25° | 68 | 93 | 216 | 339 | 383 |
| 26° | 56 | 78 | 194 | 315 | 363 |
| 27° | 45 | 64 | 172 | 294 | 343 |
| 28° | 37 | 53 | 150 | 271 | 322 |
| 29° | 31 | 44 | 131 | 247 | 301 |
| 30° | 27 | 36 | 111 | 227 | 275 |
| 32.5° | 19 | 24 | 68 | 169 | 205 |
| 35° | 15 | 17 | 39 | 109 | 141 |
| 37.5° | 11 | 13 | 23 | 62 | 79 |
| 40° | 9 | 10 | 15 | 31 | 45 |
| 42.5° | 8 | 8 | 11 | 18 | 23 |
| 45° | 6 | 7 | 8 | 12 | 15 |
| 47.5° | 5 | 6 | 7 | 8 | 9 |
| 50° | 5 | 5 | 6 | 6 | 7 |
| 52.5° | 4 | 5 | 5 | 5 | 6 |
| 55° | 4 | 4 | 4 | 5 | 5 |
| 57.5° | 3 | 3 | 4 | 4 | 4 |
| 60° | 3 | 3 | 3 | 4 | 4 |
| 62.5° | 2 | 2 | 3 | 3 | 3 |
| 65° | 2 | 2 | 2 | 2 | 2 |



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)