

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: P246990

Luminaire Tested: **203-SS-8LED3036-12-CS-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246990
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-45)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-SS-8LED3036-12-CS-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 36 DEGREE WIDE OPTIC, REGRESSED HOOD SILVER, LINEAR SPREAD LENS
Light Source: (1) SORAA 3000K 90 CRI LED
SM16-07-36D-930-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

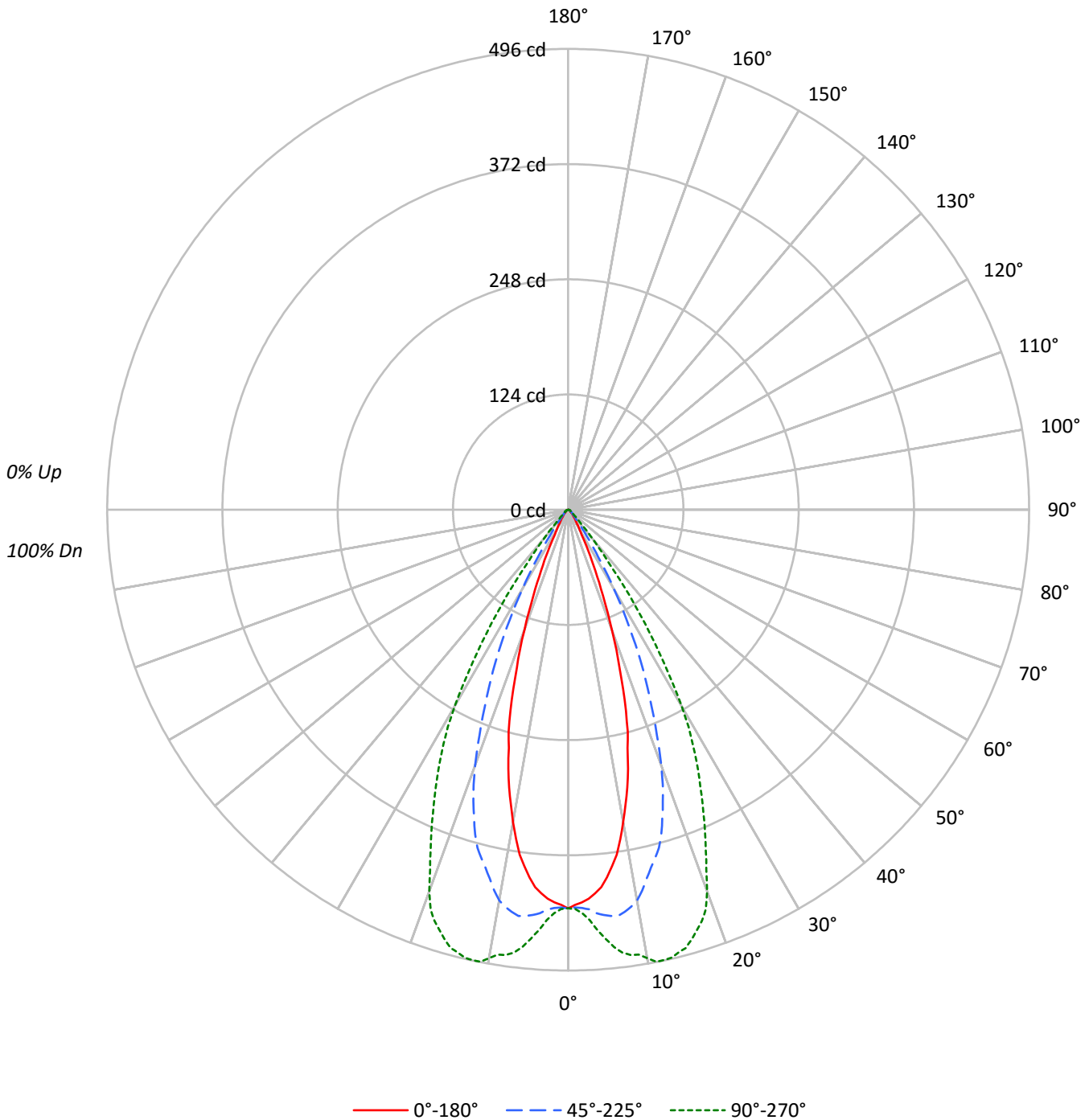
Lumens per Lamp: N/A
Luminaire Lumens: 281.4 lumens
Efficiency: N/A
Efficacy: 37.0 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.02 / 0.74
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.6
Input Voltage (V): NR
Input Current (A_{in}): 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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | 94 | 94 | 94 | |
| 2 | 109 | 104 | 100 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 89 | 89 | 89 | 89 | |
| 3 | 104 | 98 | 93 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | 83 | 83 | 83 | |
| 4 | 99 | 92 | 87 | 83 | 98 | 91 | 87 | 83 | 89 | 85 | 82 | 87 | 84 | 81 | 85 | 82 | 80 | 79 | 79 | 79 | 79 | |
| 5 | 95 | 87 | 82 | 78 | 93 | 86 | 81 | 78 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 76 | 74 | 74 | 74 | 74 | |
| 6 | 91 | 83 | 77 | 73 | 89 | 82 | 77 | 73 | 80 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 72 | 70 | 70 | 70 | 70 | |
| 7 | 87 | 78 | 73 | 69 | 86 | 78 | 73 | 69 | 77 | 72 | 69 | 75 | 71 | 68 | 74 | 71 | 68 | 67 | 67 | 67 | 67 | |
| 8 | 83 | 75 | 69 | 65 | 82 | 74 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 63 | 63 | 63 | 63 | |
| 9 | 80 | 71 | 66 | 62 | 79 | 71 | 65 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 68 | 64 | 61 | 60 | 60 | 60 | 60 | |
| 10 | 77 | 68 | 63 | 59 | 76 | 67 | 62 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 65 | 61 | 58 | 57 | 57 | 57 | 57 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 211709 | 211709 | 211709 |
| 5° | 201969 | 216876 | 229604 |
| 10° | 170988 | 214073 | 245586 |
| 15° | 126317 | 192463 | 249518 |
| 20° | 72141 | 153575 | 229444 |
| 25° | 32826 | 104250 | 184818 |
| 30° | 13616 | 56059 | 138894 |
| 35° | 8011 | 20840 | 75288 |
| 40° | 5152 | 8566 | 25698 |
| 45° | 3698 | 4954 | 9280 |
| 50° | 3377 | 4068 | 4759 |
| 55° | 3011 | 3011 | 3785 |
| 60° | 2664 | 2664 | 3454 |
| 65° | 2101 | 2101 | 2101 |
| 70° | 1298 | 1298 | 2597 |
| 75° | 1716 | 1716 | 1716 |
| 80° | 0 | 2557 | 2557 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.3 | 14.7 |
| 10°-20° | 101.9 | 36.2 |
| 20°-30° | 88.7 | 31.5 |
| 30°-40° | 35.8 | 12.7 |
| 40°-50° | 7.2 | 2.6 |
| 50°-60° | 3.5 | 1.2 |
| 60°-70° | 2.0 | 0.7 |
| 70°-80° | 1.0 | 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° | 231.9 | 82.4 |
| 0°-40° | 267.6 | 95.1 |
| 0°-60° | 278.3 | 98.9 |
| 0°-90° | 281.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 281.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 429 | 429 | 429 | 429 | 429 | |
| 5° | 408 | 418 | 438 | 456 | 464 | 37 |
| 15° | 247 | 290 | 377 | 458 | 488 | 66 |
| 25° | 60 | 82 | 192 | 300 | 340 | 29 |
| 35° | 13 | 15 | 35 | 97 | 125 | 9 |
| 45° | 5 | 6 | 7 | 11 | 13 | 4 |
| 55° | 4 | 4 | 4 | 4 | 4 | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 429.1 | 429.1 | 429.1 | 429.1 | 429.1 |
| 1° | 425.5 | 427.3 | 428.2 | 429.1 | 429.9 |
| 2° | 422.9 | 424.6 | 429.1 | 433.5 | 434.4 |
| 3° | 419.3 | 422.9 | 430.8 | 439.7 | 442.4 |
| 4° | 414.0 | 421.1 | 435.3 | 448.6 | 453.9 |
| 5° | 407.8 | 417.5 | 437.9 | 456.5 | 463.6 |
| 6° | 398.0 | 413.1 | 439.7 | 463.6 | 473.4 |
| 7° | 386.5 | 405.1 | 440.6 | 469.8 | 480.5 |
| 8° | 375.0 | 395.4 | 437.0 | 472.5 | 484.0 |
| 9° | 359.0 | 383.9 | 432.6 | 469.8 | 484.9 |
| 10° | 341.3 | 371.4 | 427.3 | 469.0 | 490.2 |
| 11° | 323.6 | 356.4 | 417.5 | 470.7 | 495.6 |
| 12° | 305.8 | 340.4 | 406.0 | 472.5 | 495.6 |
| 13° | 286.3 | 324.5 | 395.4 | 469.0 | 494.7 |
| 14° | 264.2 | 307.6 | 386.5 | 464.5 | 491.1 |
| 15° | 247.3 | 289.9 | 376.8 | 458.3 | 488.5 |
| 16° | 225.2 | 270.4 | 363.5 | 450.3 | 481.4 |
| 17° | 202.1 | 249.1 | 346.6 | 440.6 | 473.4 |
| 18° | 179.1 | 225.2 | 329.8 | 429.9 | 465.4 |
| 19° | 159.6 | 199.5 | 312.9 | 419.3 | 454.8 |
| 20° | 137.4 | 175.5 | 292.5 | 406.9 | 437.0 |
| 21° | 118.8 | 152.5 | 271.3 | 390.9 | 414.9 |
| 22° | 100.2 | 132.1 | 250.0 | 368.8 | 395.4 |
| 23° | 85.1 | 113.5 | 229.6 | 344.0 | 376.8 |
| 24° | 71.8 | 96.6 | 210.1 | 321.8 | 358.1 |
| 25° | 60.3 | 82.4 | 191.5 | 300.5 | 339.5 |
| 26° | 49.6 | 69.1 | 172.0 | 279.2 | 321.8 |
| 27° | 39.9 | 56.7 | 152.5 | 260.6 | 304.1 |
| 28° | 32.8 | 47.0 | 133.0 | 240.2 | 285.5 |
| 29° | 27.5 | 39.0 | 116.1 | 219.0 | 266.8 |
| 30° | 23.9 | 31.9 | 98.4 | 201.2 | 243.8 |
| 32.5° | 16.8 | 21.3 | 60.3 | 149.8 | 181.7 |
| 35° | 13.3 | 15.1 | 34.6 | 96.6 | 125.0 |
| 37.5° | 9.8 | 11.5 | 20.4 | 55.0 | 70.0 |
| 40° | 8.0 | 8.9 | 13.3 | 27.5 | 39.9 |
| 42.5° | 7.1 | 7.1 | 9.8 | 16.0 | 20.4 |
| 45° | 5.3 | 6.2 | 7.1 | 10.6 | 13.3 |
| 47.5° | 4.4 | 5.3 | 6.2 | 7.1 | 8.0 |
| 50° | 4.4 | 4.4 | 5.3 | 5.3 | 6.2 |
| 52.5° | 3.5 | 4.4 | 4.4 | 4.4 | 5.3 |
| 55° | 3.5 | 3.5 | 3.5 | 4.4 | 4.4 |
| 57.5° | 2.7 | 2.7 | 3.5 | 3.5 | 3.5 |
| 60° | 2.7 | 2.7 | 2.7 | 3.5 | 3.5 |
| 62.5° | 1.8 | 1.8 | 2.7 | 2.7 | 2.7 |
| 65° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 70° | 0.9 | 0.9 | 0.9 | 1.8 | 1.8 |
| 72.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 75° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 77.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 80° | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)