

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: G2-1802-569-44

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

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-44
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-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC, REGRESSED HOOD SILVER, DIFFUSED LENS
Light Source: (1) SORAA 4000K 90 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

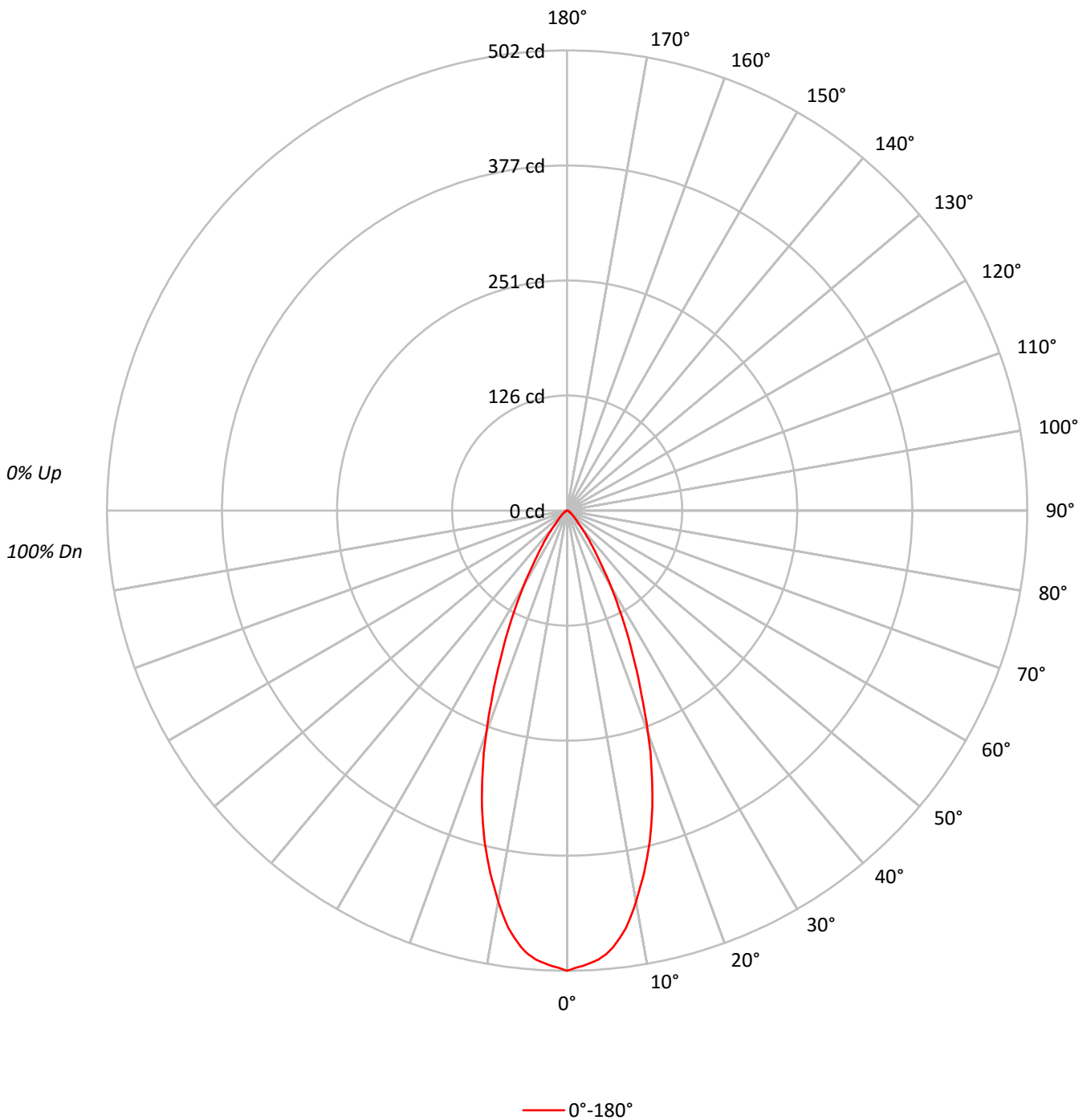
Lumens per Lamp: N/A
Luminaire Lumens: 268.6 lumens
Efficiency: N/A
Efficacy: 34.9 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.65
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 12.0
Input Current (A_{in}): 0.674
Voltage Rise (V): NR
Power Factor: 0.9902
Total Harmonic Distortion (THDi): 27.5%
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





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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 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 100 | 97 | 107 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 89 |
| 3 | 104 | 98 | 93 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 87 | 92 | 89 | 86 | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 83 | 89 | 85 | 82 | 87 | 84 | 81 | 85 | 82 | 80 | 79 |
| 5 | 95 | 87 | 82 | 78 | 93 | 86 | 81 | 78 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 76 | 74 |
| 6 | 91 | 83 | 77 | 73 | 89 | 82 | 77 | 73 | 80 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 72 | 70 |
| 7 | 87 | 79 | 73 | 69 | 86 | 78 | 73 | 69 | 77 | 72 | 69 | 76 | 71 | 68 | 74 | 71 | 68 | 67 |
| 8 | 83 | 75 | 69 | 66 | 82 | 74 | 69 | 66 | 73 | 69 | 65 | 72 | 68 | 65 | 71 | 68 | 65 | 63 |
| 9 | 80 | 71 | 66 | 62 | 79 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 68 | 64 | 62 | 60 |
| 10 | 77 | 68 | 63 | 59 | 76 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 66 | 62 | 59 | 58 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 247677 |
| 5° | 240698 |
| 10° | 216929 |
| 15° | 181328 |
| 20° | 135461 |
| 25° | 89823 |
| 30° | 54122 |
| 35° | 29513 |
| 40° | 15457 |
| 45° | 9071 |
| 50° | 6140 |
| 55° | 4301 |
| 60° | 2960 |
| 65° | 2335 |
| 70° | 2885 |
| 75° | 1906 |
| 80° | 2841 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.7 | 16.6 |
| 10°-20° | 97.0 | 36.1 |
| 20°-30° | 75.7 | 28.2 |
| 30°-40° | 32.4 | 12.0 |
| 40°-50° | 10.7 | 4.0 |
| 50°-60° | 4.6 | 1.7 |
| 60°-70° | 2.3 | 0.9 |
| 70°-80° | 1.2 | 0.4 |
| 80°-90° | 0.1 | 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° | 217.4 | 80.9 |
| 0°-40° | 249.7 | 93.0 |
| 0°-60° | 265.0 | 98.6 |
| 0°-90° | 268.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 268.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 502 | |
| 5° | 486 | 45 |
| 15° | 355 | 97 |
| 25° | 165 | 76 |
| 35° | 49 | 32 |
| 45° | 13 | 11 |
| 55° | 5 | 5 |
| 65° | 2 | 2 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-----|
| 0° | 502 |
| 1° | 499 |
| 2° | 497 |
| 3° | 494 |
| 4° | 491 |
| 5° | 486 |
| 6° | 479 |
| 7° | 470 |
| 8° | 460 |
| 9° | 447 |
| 10° | 433 |
| 11° | 418 |
| 12° | 404 |
| 13° | 388 |
| 14° | 372 |
| 15° | 355 |
| 16° | 337 |
| 17° | 318 |
| 18° | 298 |
| 19° | 279 |
| 20° | 258 |
| 21° | 237 |
| 22° | 217 |
| 23° | 199 |
| 24° | 181 |
| 25° | 165 |
| 26° | 149 |
| 27° | 134 |
| 28° | 120 |
| 29° | 107 |
| 30° | 95 |
| 32.5° | 68 |
| 35° | 49 |
| 37.5° | 35 |
| 40° | 24 |
| 42.5° | 17 |
| 45° | 13 |
| 47.5° | 10 |
| 50° | 8 |
| 52.5° | 6 |
| 55° | 5 |
| 57.5° | 4 |
| 60° | 3 |
| 62.5° | 3 |
| 65° | 2 |



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)