

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: G2-1802-569-9

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

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-9
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-9)
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-8LED4036-12-CS
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD SILVER
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: 371.7 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.54
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

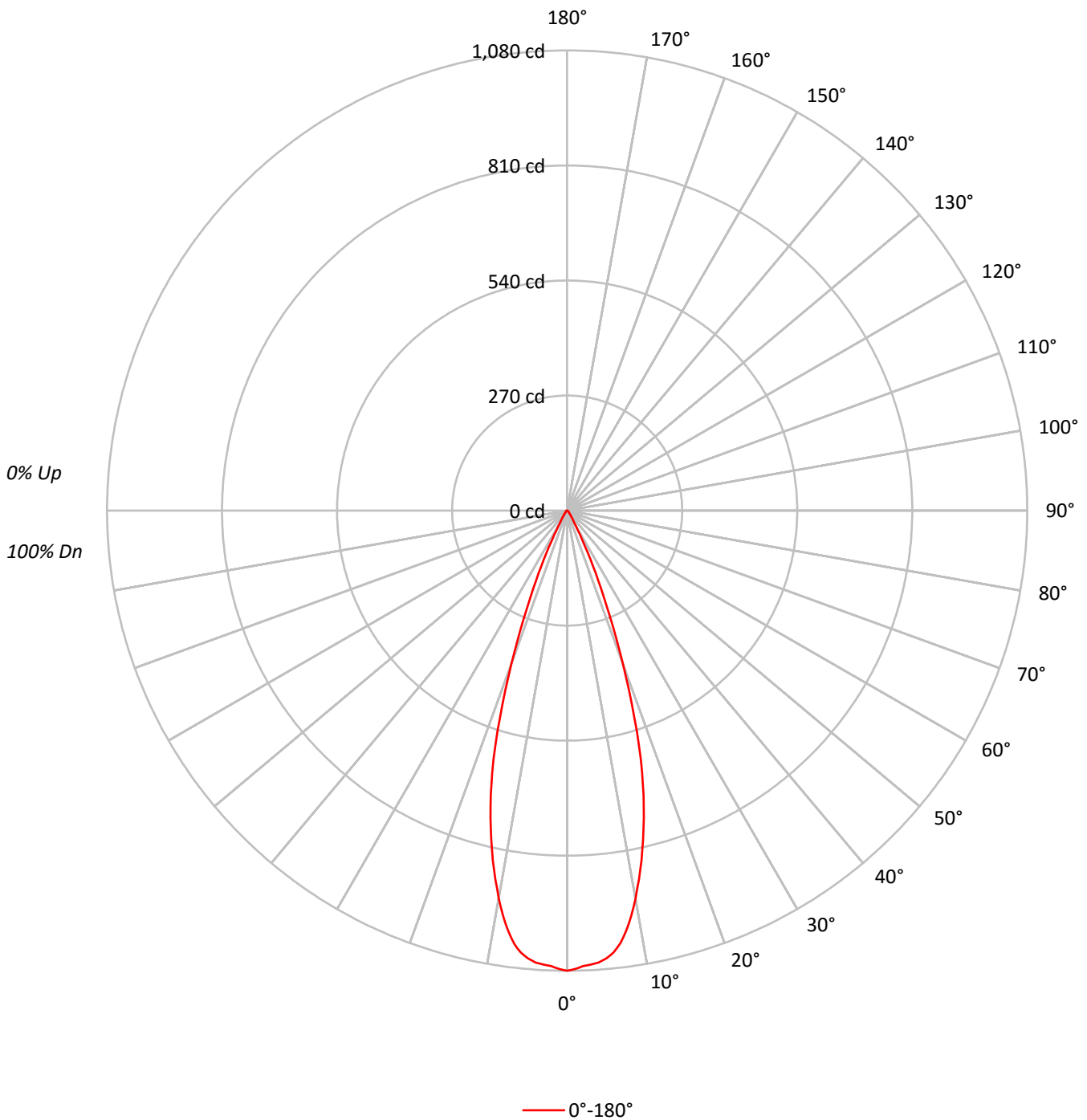
Input Watts (W): 7.6
Input Voltage (V): 12.0
Input Current (A_{in}): 0.667
Voltage Rise (V): NR
Power Factor: 0.9902
Total Harmonic Distortion (THDi): 27.4%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.3
Test Distance: 25 FT



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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 | 115 | 112 | 110 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | | 103 | 102 | 101 | | 99 | 98 | 98 | 96 |
| 2 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 100 | 102 | 100 | 98 | | 99 | 97 | 96 | | 96 | 95 | 94 | 92 |
| 3 | 107 | 102 | 98 | 95 | 105 | 100 | 97 | 94 | 98 | 95 | 93 | | 96 | 93 | 91 | | 93 | 91 | 90 | 88 |
| 4 | 103 | 97 | 93 | 90 | 101 | 96 | 92 | 89 | 94 | 91 | 88 | | 92 | 90 | 87 | | 91 | 88 | 86 | 85 |
| 5 | 100 | 93 | 89 | 86 | 98 | 92 | 88 | 85 | 91 | 87 | 85 | | 89 | 86 | 84 | | 88 | 85 | 83 | 82 |
| 6 | 96 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | | 86 | 83 | 81 | | 85 | 82 | 80 | 79 |
| 7 | 93 | 86 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | | 84 | 80 | 78 | | 83 | 80 | 77 | 76 |
| 8 | 90 | 83 | 79 | 76 | 89 | 83 | 79 | 76 | 82 | 78 | 75 | | 81 | 78 | 75 | | 80 | 77 | 75 | 74 |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 79 | 75 | 73 | | 78 | 75 | 73 | | 78 | 75 | 72 | 71 |
| 10 | 85 | 78 | 74 | 71 | 84 | 78 | 73 | 71 | 77 | 73 | 70 | | 76 | 73 | 70 | | 76 | 72 | 70 | 69 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 532850 |
| 5° | 522504 |
| 10° | 462915 |
| 15° | 353973 |
| 20° | 200042 |
| 25° | 78391 |
| 30° | 21079 |
| 35° | 9035 |
| 40° | 5152 |
| 45° | 3489 |
| 50° | 3070 |
| 55° | 3441 |
| 60° | 1974 |
| 65° | 1167 |
| 70° | 1443 |
| 75° | 1906 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.7 | 26.0 |
| 10°-20° | 183.7 | 49.4 |
| 20°-30° | 71.0 | 19.1 |
| 30°-40° | 10.9 | 2.9 |
| 40°-50° | 4.2 | 1.1 |
| 50°-60° | 3.1 | 0.8 |
| 60°-70° | 1.4 | 0.4 |
| 70°-80° | 0.7 | 0.2 |
| 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° | 351.4 | 94.5 |
| 0°-40° | 362.3 | 97.5 |
| 0°-60° | 369.6 | 99.5 |
| 0°-90° | 371.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 371.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1080 | |
| 5° | 1055 | 97 |
| 15° | 693 | 184 |
| 25° | 144 | 71 |
| 35° | 15 | 11 |
| 45° | 5 | 4 |
| 55° | 4 | 3 |
| 65° | 1 | 1 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|------|
| 0° | 1080 |
| 1° | 1076 |
| 2° | 1070 |
| 3° | 1067 |
| 4° | 1063 |
| 5° | 1055 |
| 6° | 1043 |
| 7° | 1024 |
| 8° | 996 |
| 9° | 963 |
| 10° | 924 |
| 11° | 882 |
| 12° | 839 |
| 13° | 792 |
| 14° | 743 |
| 15° | 693 |
| 16° | 638 |
| 17° | 577 |
| 18° | 511 |
| 19° | 445 |
| 20° | 381 |
| 21° | 320 |
| 22° | 266 |
| 23° | 218 |
| 24° | 179 |
| 25° | 144 |
| 26° | 109 |
| 27° | 83 |
| 28° | 63 |
| 29° | 48 |
| 30° | 37 |
| 32.5° | 23 |
| 35° | 15 |
| 37.5° | 11 |
| 40° | 8 |
| 42.5° | 6 |
| 45° | 5 |
| 47.5° | 5 |
| 50° | 4 |
| 52.5° | 4 |
| 55° | 4 |
| 57.5° | 3 |
| 60° | 2 |
| 62.5° | 2 |
| 65° | 1 |



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)