

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: G2-1802-569-7

Luminaire Tested: **203-SS-8LED4010-12-CS**

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-7
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-8LED4010-12-CS
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD SILVER
Light Source: (1) SORAA 4000K 95 CRI 10°NSP LED SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 296.9 lumens
Efficiency: N/A
Efficacy: 39.6 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.19
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

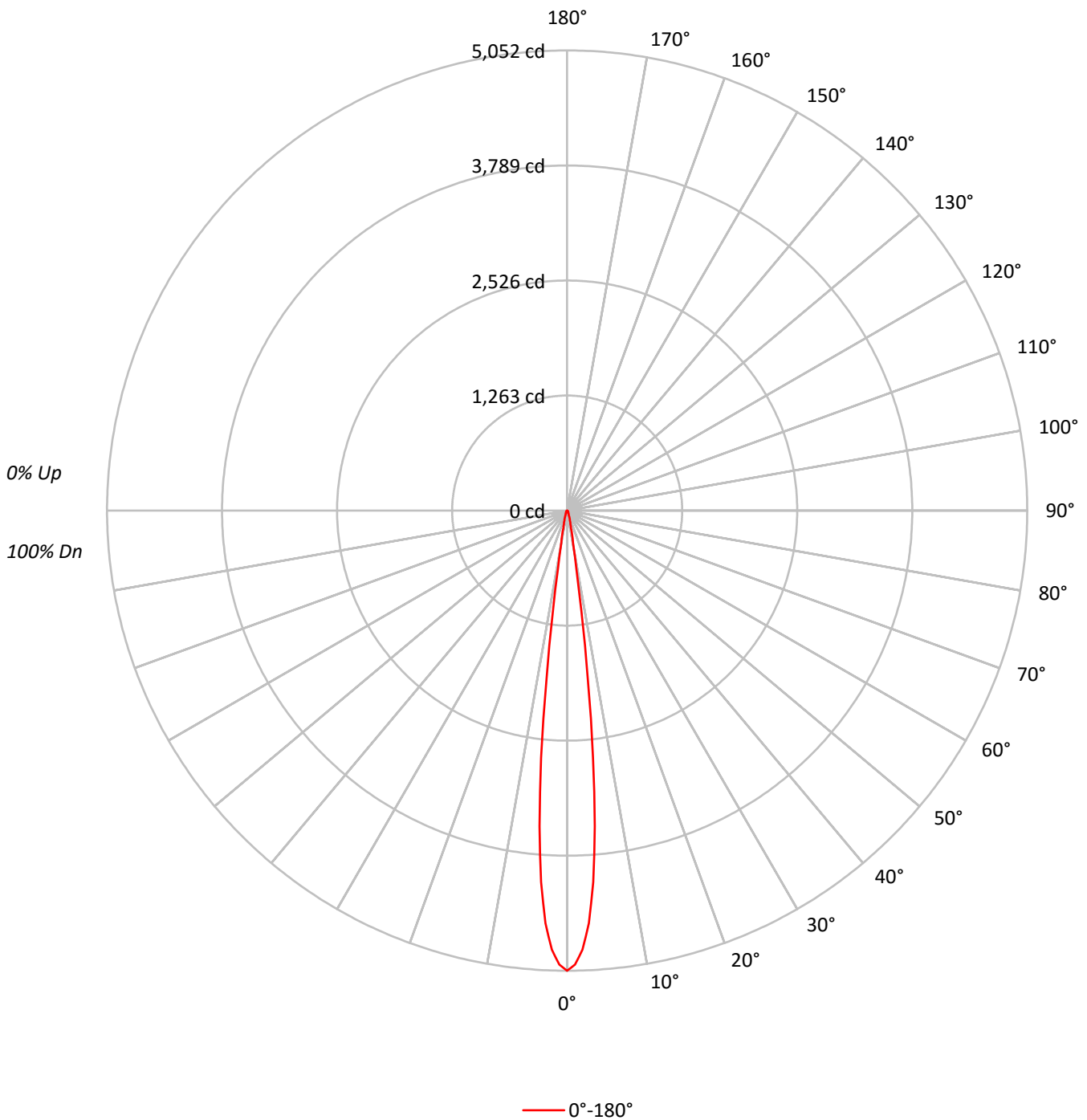
Input Watts (W): 7.5
Input Voltage (V): 12.0
Input Current (A_{in}): 0.656
Voltage Rise (V): NR
Power Factor: 0.9482
Total Harmonic Distortion (THDi): 27.2%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT



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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 | 116 | 114 | 112 | 110 | 113 | 112 | 110 | 109 | 108 | 106 | 105 | | 104 | 103 | 102 | | 101 | 100 | 99 | 98 |
| 2 | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 103 | 104 | 102 | 101 | | 101 | 100 | 99 | | 99 | 98 | 97 | 95 |
| 3 | 109 | 105 | 102 | 99 | 108 | 104 | 101 | 99 | 102 | 99 | 97 | | 99 | 97 | 96 | | 97 | 96 | 94 | 93 |
| 4 | 107 | 102 | 99 | 96 | 105 | 101 | 98 | 95 | 99 | 96 | 94 | | 97 | 95 | 93 | | 96 | 94 | 92 | 91 |
| 5 | 104 | 99 | 96 | 93 | 103 | 98 | 95 | 93 | 97 | 94 | 92 | | 95 | 93 | 91 | | 94 | 92 | 91 | 90 |
| 6 | 102 | 97 | 93 | 91 | 101 | 96 | 93 | 91 | 95 | 92 | 90 | | 94 | 91 | 90 | | 93 | 91 | 89 | 88 |
| 7 | 100 | 95 | 91 | 89 | 99 | 94 | 91 | 89 | 93 | 91 | 88 | | 92 | 90 | 88 | | 91 | 89 | 88 | 87 |
| 8 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 87 | 92 | 89 | 87 | | 91 | 89 | 87 | | 90 | 88 | 86 | 86 |
| 9 | 97 | 92 | 88 | 86 | 96 | 91 | 88 | 86 | 91 | 88 | 86 | | 90 | 87 | 86 | | 89 | 87 | 85 | 85 |
| 10 | 96 | 90 | 87 | 85 | 95 | 90 | 87 | 85 | 89 | 87 | 85 | | 89 | 86 | 85 | | 88 | 86 | 84 | 84 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 2492553 |
| 5° | 1723519 |
| 10° | 197390 |
| 15° | 62316 |
| 20° | 27827 |
| 25° | 17965 |
| 30° | 14243 |
| 35° | 12648 |
| 40° | 10949 |
| 45° | 9768 |
| 50° | 7676 |
| 55° | 6021 |
| 60° | 2960 |
| 65° | 1167 |
| 70° | 1443 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 208.8 | 70.3 |
| 10°-20° | 40.0 | 13.5 |
| 20°-30° | 16.0 | 5.4 |
| 30°-40° | 13.3 | 4.5 |
| 40°-50° | 10.9 | 3.7 |
| 50°-60° | 6.1 | 2.1 |
| 60°-70° | 1.5 | 0.5 |
| 70°-80° | 0.4 | 0.1 |
| 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° | 264.8 | 89.2 |
| 0°-40° | 278.1 | 93.7 |
| 0°-60° | 295.0 | 99.4 |
| 0°-90° | 296.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 296.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 5052 | |
| 5° | 3480 | 209 |
| 15° | 122 | 40 |
| 25° | 33 | 16 |
| 35° | 21 | 13 |
| 45° | 14 | 11 |
| 55° | 7 | 6 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|------|
| 0° | 5052 |
| 1° | 4985 |
| 2° | 4824 |
| 3° | 4536 |
| 4° | 4090 |
| 5° | 3480 |
| 6° | 2726 |
| 7° | 1869 |
| 8° | 1117 |
| 9° | 639 |
| 10° | 394 |
| 12.5° | 194 |
| 15° | 122 |
| 17.5° | 85 |
| 20° | 53 |
| 22.5° | 40 |
| 25° | 33 |
| 27.5° | 29 |
| 30° | 25 |
| 32.5° | 23 |
| 35° | 21 |
| 37.5° | 20 |
| 40° | 17 |
| 42.5° | 16 |
| 45° | 14 |
| 47.5° | 13 |
| 50° | 10 |
| 52.5° | 9 |
| 55° | 7 |
| 57.5° | 5 |
| 60° | 3 |
| 62.5° | 2 |
| 65° | 1 |
| 67.5° | 1 |
| 70° | 1 |
| 72.5° | 1 |
| 75° | 0 |
| 77.5° | 0 |
| 80° | 0 |
| 82.5° | 0 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |

(END OF REPORT)