

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: G2-1802-569-38

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

Test Date: 04/05/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-38
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-38)
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-LVR
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD SILVER, HEX CELL LOUVER
Light Source: (1) SORAA 4000K 95 CRI 10° NSP LED
SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

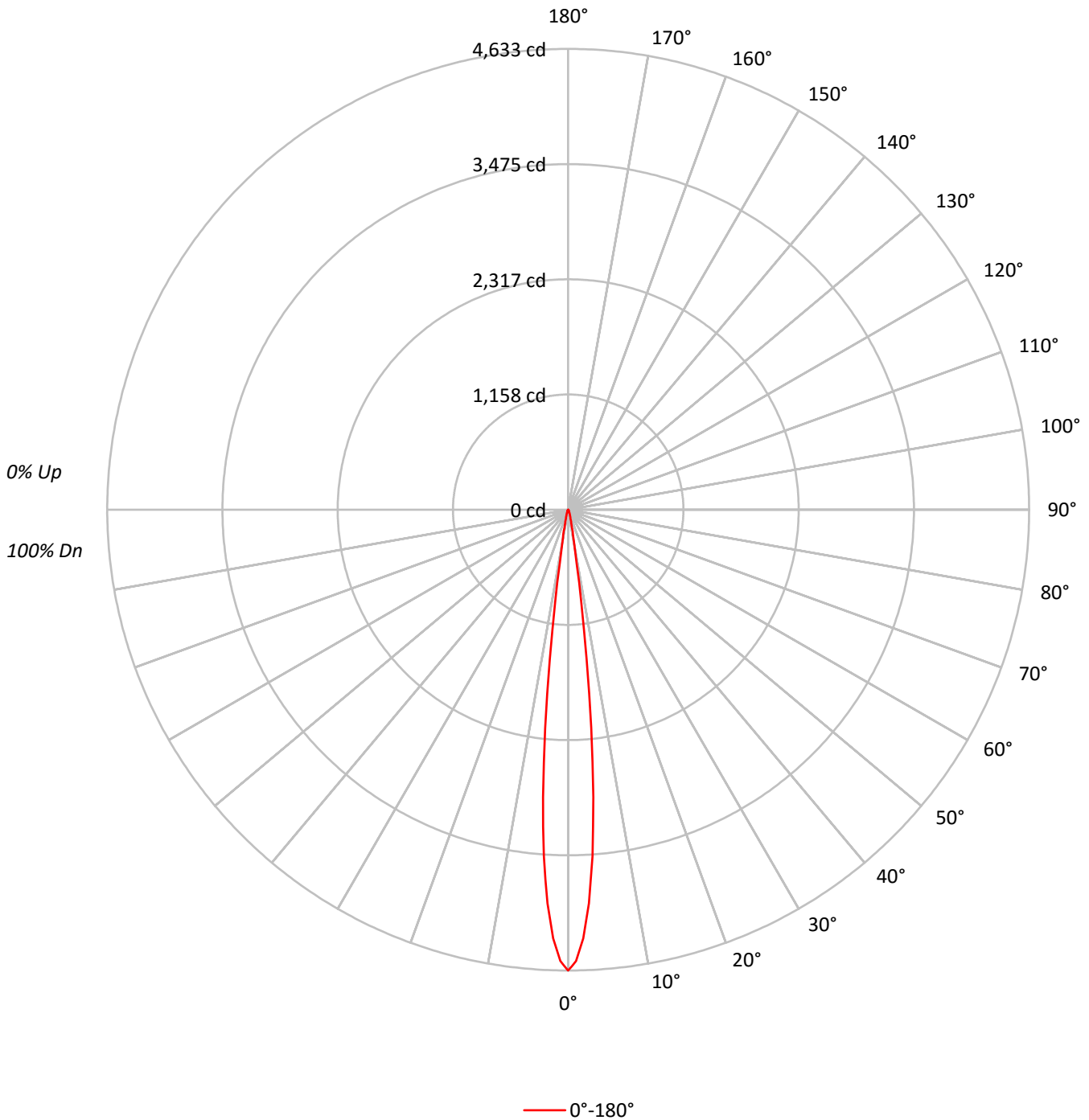
Lumens per Lamp: N/A
Luminaire Lumens: 225.1 lumens
Efficiency: N/A
Efficacy: 30.0 lumens/watt
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.19
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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): 25.7
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 | | | | | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 106 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1 | 116 | 114 | 113 | 111 | 114 | 112 | 111 | 110 | 108 | 107 | 106 | 106 | 105 | 104 | 103 | 103 | 101 | 101 | 100 | 100 | 99 | 99 | 99 | 99 |
| 2 | 113 | 111 | 108 | 106 | 111 | 109 | 107 | 105 | 106 | 104 | 103 | 103 | 103 | 102 | 101 | 101 | 101 | 100 | 99 | 99 | 97 | 97 | 97 | 97 |
| 3 | 111 | 108 | 105 | 103 | 109 | 106 | 104 | 102 | 104 | 102 | 100 | 100 | 102 | 100 | 99 | 99 | 100 | 98 | 97 | 97 | 96 | 96 | 96 | 96 |
| 4 | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99 | 102 | 100 | 98 | 98 | 100 | 99 | 97 | 97 | 99 | 97 | 96 | 96 | 95 | 95 | 95 | 95 |
| 5 | 107 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 101 | 98 | 97 | 97 | 99 | 97 | 96 | 96 | 98 | 96 | 95 | 95 | 94 | 94 | 94 | 94 |
| 6 | 105 | 101 | 98 | 96 | 104 | 100 | 98 | 96 | 99 | 97 | 95 | 95 | 98 | 96 | 95 | 95 | 97 | 95 | 94 | 94 | 93 | 93 | 93 | 93 |
| 7 | 104 | 100 | 97 | 95 | 103 | 99 | 96 | 94 | 98 | 96 | 94 | 94 | 97 | 95 | 94 | 94 | 96 | 94 | 93 | 93 | 92 | 92 | 92 | 92 |
| 8 | 103 | 98 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 95 | 93 | 93 | 96 | 94 | 93 | 93 | 95 | 94 | 92 | 92 | 91 | 91 | 91 | 91 |
| 9 | 101 | 97 | 94 | 92 | 101 | 97 | 94 | 92 | 96 | 94 | 92 | 92 | 95 | 93 | 92 | 92 | 95 | 93 | 92 | 92 | 91 | 91 | 91 | 91 |
| 10 | 100 | 96 | 93 | 91 | 100 | 96 | 93 | 91 | 95 | 93 | 91 | 91 | 94 | 92 | 91 | 91 | 94 | 92 | 91 | 91 | 90 | 90 | 90 | 90 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° |
|-----|---------|
| 0° | 2285827 |
| 5° | 1436761 |
| 10° | 165327 |
| 15° | 45460 |
| 20° | 18377 |
| 25° | 10343 |
| 30° | 6836 |
| 35° | 4818 |
| 40° | 3220 |
| 45° | 2093 |
| 50° | 1535 |
| 55° | 860 |
| 60° | 987 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 176.6 | 78.5 |
| 10°-20° | 30.4 | 13.5 |
| 20°-30° | 9.3 | 4.1 |
| 30°-40° | 5.0 | 2.2 |
| 40°-50° | 2.2 | 1.0 |
| 50°-60° | 1.2 | 0.5 |
| 60°-70° | 0.4 | 0.2 |
| 70°-80° | 0.0 | 0.0 |
| 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° | 216.3 | 96.1 |
| 0°-40° | 221.3 | 98.3 |
| 0°-60° | 224.7 | 99.8 |
| 0°-90° | 225.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 225.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4633 | |
| 5° | 2901 | 177 |
| 15° | 89 | 30 |
| 25° | 19 | 9 |
| 35° | 8 | 5 |
| 45° | 3 | 2 |
| 55° | 1 | 1 |
| 65° | 0 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|------|
| 0° | 4633 |
| 1° | 4538 |
| 2° | 4311 |
| 3° | 3963 |
| 4° | 3493 |
| 5° | 2901 |
| 6° | 2205 |
| 7° | 1515 |
| 8° | 933 |
| 9° | 543 |
| 10° | 330 |
| 12.5° | 149 |
| 15° | 89 |
| 17.5° | 59 |
| 20° | 35 |
| 22.5° | 25 |
| 25° | 19 |
| 27.5° | 15 |
| 30° | 12 |
| 32.5° | 10 |
| 35° | 8 |
| 37.5° | 6 |
| 40° | 5 |
| 42.5° | 3 |
| 45° | 3 |
| 47.5° | 2 |
| 50° | 2 |
| 52.5° | 2 |
| 55° | 1 |
| 57.5° | 1 |
| 60° | 1 |
| 62.5° | 1 |
| 65° | 0 |
| 67.5° | 0 |
| 70° | 0 |
| 72.5° | 0 |
| 75° | 0 |
| 77.5° | 0 |
| 80° | 0 |
| 82.5° | 0 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |

(END OF REPORT)