

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: G2-1802-569-26

Luminaire Tested: **230-8LED4010-12-BK-LVR**

Test Date: 04/06/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1802-569-26  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-26)  
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: 230-8LED4010-12-BK-LVR  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC,  
REGRESSED HOOD BLACK, HEX CELL LOUVER  
Light Source: (1) SORAA 4000K 95 CRI 10°NSP LED  
SM16-07-10D-940-03  
Ballast/Driver: CHROMA POWER SUPPLY IN0004

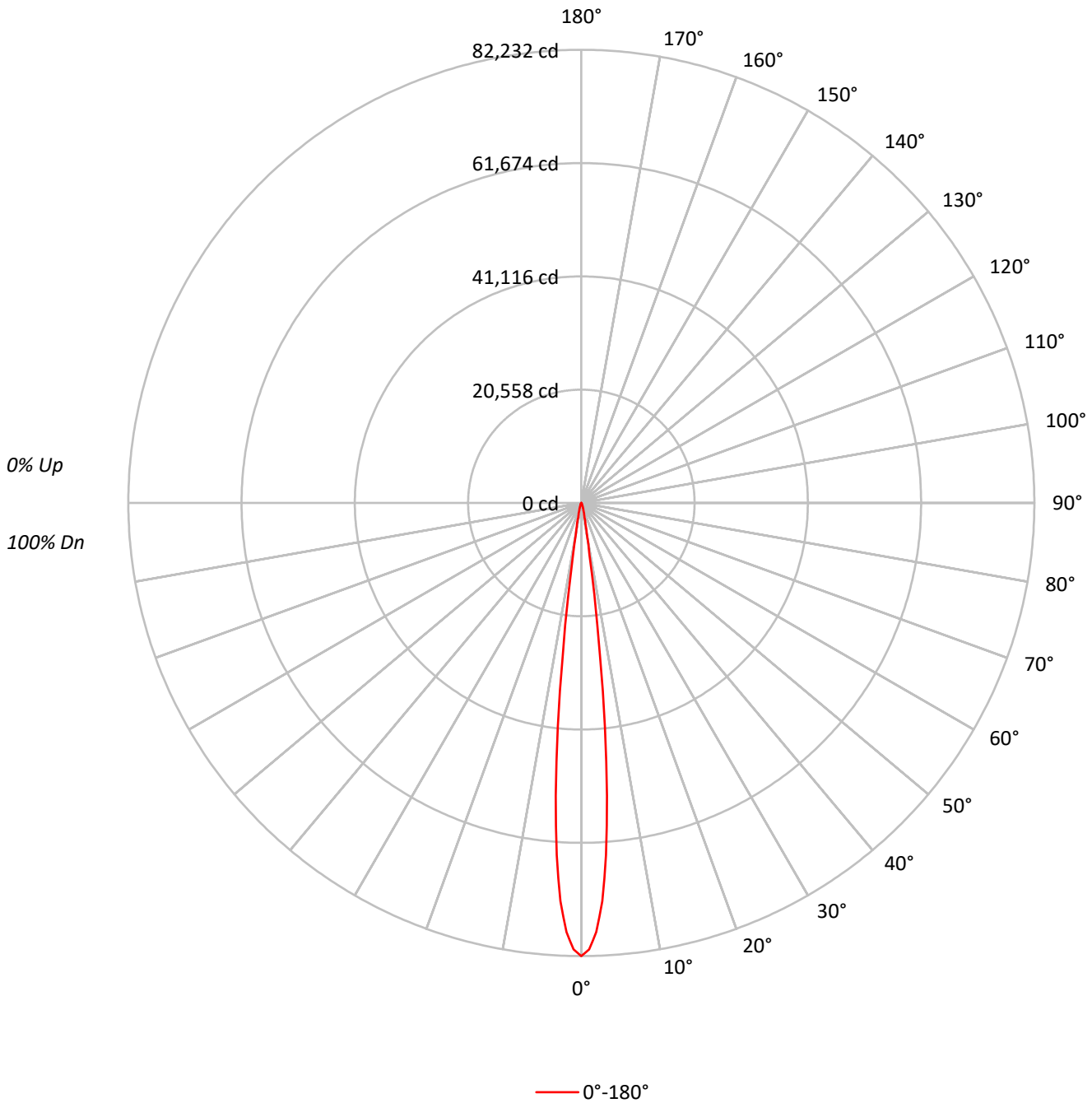
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4000.0 lumens  
Efficiency: N/A  
Efficacy: 500.0 lumens/watt  
Spacing Criteria (0/90/45): 0.21 / 0.21 / 0.19  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 8  
Input Voltage (V): 12.0  
Input Current (Ain): 0.709  
Voltage Rise (V): NR  
Power Factor: 0.9468  
Total Harmonic Distortion (THDi): 27.5  
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 | 115 | 113 | 112 | 114 | 112 | 111 | 110 | 108 | 108 | 107 | 105 | 104 | 103 | 102 | 101 | 101 | 99  |
| 2   | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 106 | 106 | 105 | 103 | 104 | 102 | 101 | 101 | 100 | 99  | 98  |
| 3   | 111 | 108 | 105 | 103 | 110 | 107 | 104 | 103 | 104 | 103 | 101 | 102 | 101 | 99  | 100 | 99  | 98  | 97  |
| 4   | 109 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 101 | 99  | 101 | 99  | 98  | 100 | 98  | 97  | 96  |
| 5   | 108 | 104 | 101 | 99  | 107 | 103 | 100 | 98  | 101 | 99  | 98  | 100 | 98  | 97  | 99  | 97  | 96  | 95  |
| 6   | 106 | 102 | 99  | 97  | 105 | 101 | 99  | 97  | 100 | 98  | 96  | 99  | 97  | 96  | 98  | 96  | 95  | 94  |
| 7   | 105 | 101 | 98  | 96  | 104 | 100 | 97  | 96  | 99  | 97  | 95  | 98  | 96  | 95  | 97  | 96  | 94  | 94  |
| 8   | 104 | 99  | 97  | 95  | 103 | 99  | 96  | 95  | 98  | 96  | 94  | 97  | 95  | 94  | 97  | 95  | 94  | 93  |
| 9   | 102 | 98  | 96  | 94  | 102 | 98  | 95  | 94  | 97  | 95  | 93  | 97  | 95  | 93  | 96  | 94  | 93  | 92  |
| 10  | 101 | 97  | 95  | 93  | 101 | 97  | 94  | 93  | 96  | 94  | 93  | 96  | 94  | 92  | 95  | 94  | 92  | 92  |

**AVERAGE LUMINANCE (cd/sqm):**

|     |          |
|-----|----------|
|     | 0°       |
| 0°  | 40571735 |
| 5°  | 26432794 |
| 10° | 2827141  |
| 15° | 807396   |
| 20° | 339126   |
| 25° | 157327   |
| 30° | 96850    |
| 35° | 61435    |
| 40° | 32847    |
| 45° | 23723    |
| 50° | 13049    |
| 55° | 14623    |
| 60° | 0        |
| 65° | 0        |
| 70° | 0        |
| 75° | 0        |
| 80° | 0        |
| 85° | 0        |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3219.2 | 80.5      |
| 10°-20°   | 534.6  | 13.4      |
| 20°-30°   | 147.5  | 3.7       |
| 30°-40°   | 66.7   | 1.7       |
| 40°-50°   | 22.7   | 0.6       |
| 50°-60°   | 9.3    | 0.2       |
| 60°-70°   | 0.0    | 0.0       |
| 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°    | 3901.3 | 97.5      |
| 0°-40°    | 3968.0 | 99.2      |
| 0°-60°    | 4000.0 | 100.0     |
| 0°-90°    | 4000.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4000.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 82232 |      |
| 5°  | 53371 | ###  |
| 15° | 1581  | 535  |
| 25° | 289   | 148  |
| 35° | 102   | 67   |
| 45° | 34    | 23   |
| 55° | 17    | 9    |
| 65° | 0     | 0    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 82232.3 |
| 1°    | 81042.5 |
| 2°    | 77915.0 |
| 3°    | 72390.9 |
| 4°    | 64045.3 |
| 5°    | 53371.1 |
| 6°    | 40895.2 |
| 7°    | 27824.4 |
| 8°    | 16844.2 |
| 9°    | 9467.4  |
| 10°   | 5643.1  |
| 12.5° | 2634.6  |
| 15°   | 1580.7  |
| 17.5° | 1053.8  |
| 20°   | 645.9   |
| 22.5° | 407.9   |
| 25°   | 289.0   |
| 27.5° | 221.0   |
| 30°   | 170.0   |
| 32.5° | 136.0   |
| 35°   | 102.0   |
| 37.5° | 85.0    |
| 40°   | 51.0    |
| 42.5° | 34.0    |
| 45°   | 34.0    |
| 47.5° | 17.0    |
| 50°   | 17.0    |
| 52.5° | 17.0    |
| 55°   | 17.0    |
| 57.5° | 0.0     |
| 60°   | 0.0     |
| 62.5° | 0.0     |
| 65°   | 0.0     |
| 67.5° | 0.0     |
| 70°   | 0.0     |
| 72.5° | 0.0     |
| 75°   | 0.0     |
| 77.5° | 0.0     |
| 80°   | 0.0     |
| 82.5° | 0.0     |
| 85°   | 0.0     |
| 87.5° | 0.0     |
| 90°   | 0.0     |

(END OF REPORT)