

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: G2-1802-569-35

Luminaire Tested: **230-8LED4036-12-BK-OSL**

Test Date: 04/06/18

**Test Information**

Test Method: LM-79-08  
Report Number: G2-1802-569-35  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-35)  
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: 230-8LED4036-12-BK-OSL  
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC,  
REGRESSED HOOD BLACK, OVERALL SPREAD LENS  
Light Source: (1) SORAA 4000K 95 CRI LED  
SM16-07-36D-940-03  
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

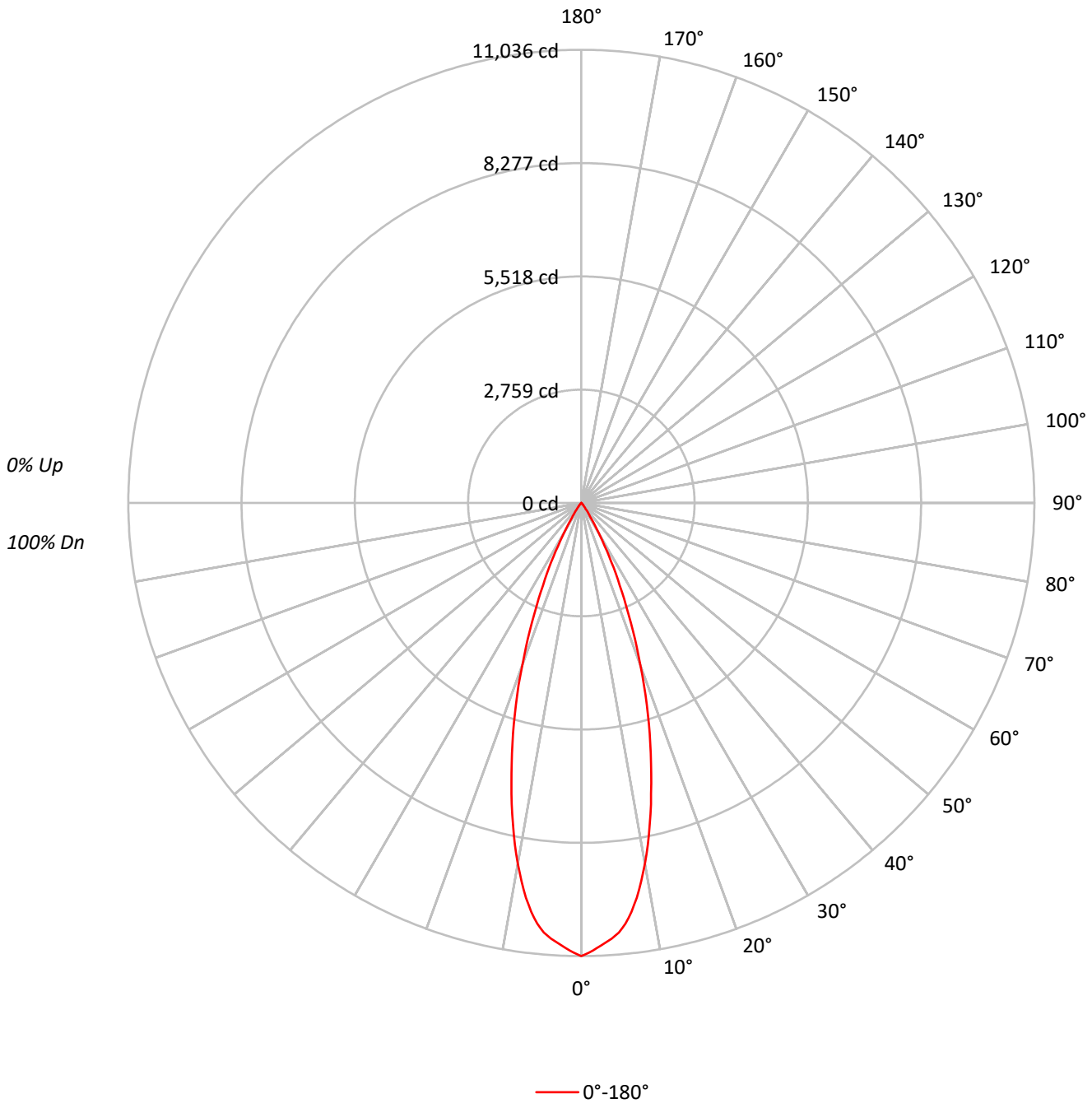
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4000.0 lumens  
Efficiency: N/A  
Efficacy: 519.5 lumens/watt  
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.56  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.7  
Input Voltage (V): 12.0  
Input Current (Ain): 0.680  
Voltage Rise (V): NR  
Power Factor: 0.9908  
Total Harmonic Distortion (THDi): 27.3%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 3 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   | 115 | 112 | 110 | 109 | 112 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 101 | 100 | 99  | 98  | 98  | 96  |
| 2   | 110 | 107 | 103 | 101 | 108 | 105 | 102 | 99  | 102 | 99  | 97  | 99  | 97  | 95  | 96  | 95  | 93  | 92  |
| 3   | 106 | 101 | 97  | 94  | 105 | 100 | 96  | 94  | 98  | 95  | 92  | 95  | 93  | 91  | 93  | 91  | 89  | 88  |
| 4   | 103 | 97  | 92  | 89  | 101 | 96  | 92  | 89  | 94  | 90  | 88  | 92  | 89  | 87  | 90  | 88  | 86  | 84  |
| 5   | 99  | 93  | 88  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 81  |
| 6   | 96  | 89  | 84  | 81  | 94  | 88  | 84  | 81  | 87  | 83  | 80  | 85  | 82  | 80  | 84  | 81  | 79  | 78  |
| 7   | 92  | 85  | 81  | 77  | 91  | 85  | 80  | 77  | 84  | 80  | 77  | 82  | 79  | 76  | 81  | 78  | 76  | 75  |
| 8   | 89  | 82  | 77  | 74  | 88  | 82  | 77  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 72  |
| 9   | 86  | 79  | 74  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 71  | 76  | 73  | 71  | 70  |
| 10  | 84  | 76  | 72  | 69  | 83  | 76  | 72  | 69  | 75  | 71  | 69  | 74  | 71  | 68  | 74  | 71  | 68  | 67  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 5444937 |
| 5°  | 5201859 |
| 10° | 4467034 |
| 15° | 3350744 |
| 20° | 2213321 |
| 25° | 1205430 |
| 30° | 485731  |
| 35° | 142626  |
| 40° | 53393   |
| 45° | 24770   |
| 50° | 9057    |
| 55° | 10150   |
| 60° | 0       |
| 65° | 0       |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 952.0  | 23.8      |
| 10°-20°   | 1791.3 | 44.8      |
| 20°-30°   | 1028.9 | 25.7      |
| 30°-40°   | 189.5  | 4.7       |
| 40°-50°   | 29.2   | 0.7       |
| 50°-60°   | 9.2    | 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°    | 3772.1 | 94.3      |
| 0°-40°    | 3961.6 | 99.0      |
| 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°  | 11036 |      |
| 5°  | 10503 | 952  |
| 15° | 6560  | 1791 |
| 25° | 2214  | 1029 |
| 35° | 237   | 189  |
| 45° | 36    | 29   |
| 55° | 12    | 9    |
| 65° | 0     | 0    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 11036.0 |
| 1°    | 10953.1 |
| 2°    | 10846.6 |
| 3°    | 10740.0 |
| 4°    | 10633.4 |
| 5°    | 10503.2 |
| 6°    | 10301.9 |
| 7°    | 10029.5 |
| 8°    | 9709.8  |
| 9°    | 9319.0  |
| 10°   | 8916.4  |
| 11°   | 8478.3  |
| 12°   | 8004.7  |
| 13°   | 7531.0  |
| 14°   | 7033.7  |
| 15°   | 6560.0  |
| 16°   | 6086.4  |
| 17°   | 5624.6  |
| 18°   | 5162.8  |
| 19°   | 4689.1  |
| 20°   | 4215.5  |
| 21°   | 3765.5  |
| 22°   | 3351.1  |
| 23°   | 2936.6  |
| 24°   | 2557.7  |
| 25°   | 2214.3  |
| 26°   | 1906.4  |
| 27°   | 1610.4  |
| 28°   | 1326.2  |
| 29°   | 1065.7  |
| 30°   | 852.6   |
| 32.5° | 426.3   |
| 35°   | 236.8   |
| 37.5° | 130.3   |
| 40°   | 82.9    |
| 42.5° | 47.4    |
| 45°   | 35.5    |
| 47.5° | 23.7    |
| 50°   | 11.8    |
| 52.5° | 11.8    |
| 55°   | 11.8    |
| 57.5° | 11.8    |
| 60°   | 0.0     |
| 62.5° | 0.0     |
| 65°   | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 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)