

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: G2-1802-569-22

Luminaire Tested: **203-FL-8LED4036-12-BK-LVR**

Test Date: 04/07/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-22
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/07/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED4036-12-BK-LVR
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 36 DEGREE WIDE OPTIC, FLUSH HOOD BLACK, HEX CELL LOUVER
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-36D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

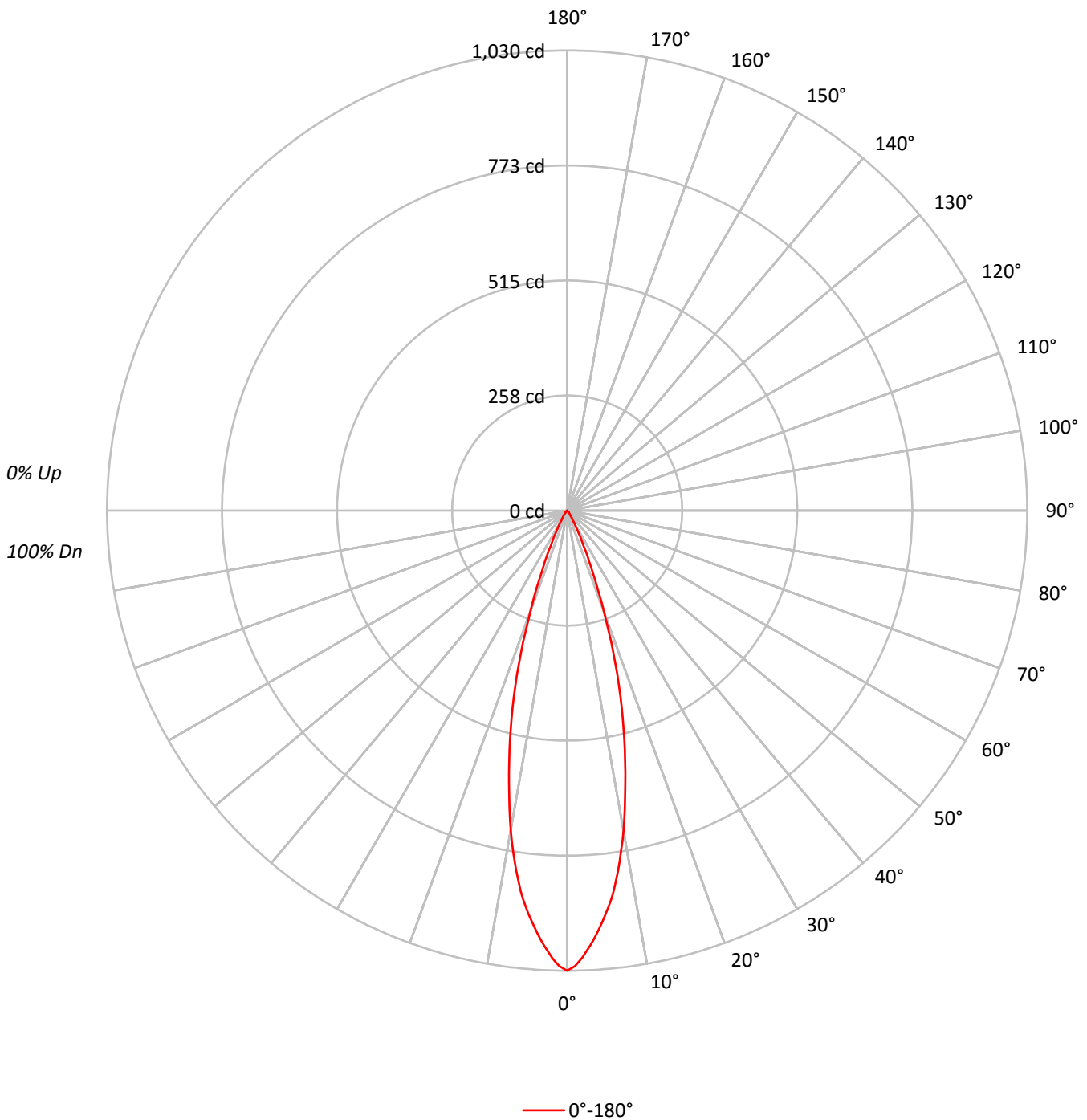
Lumens per Lamp: N/A
Luminaire Lumens: 267.9 lumens
Efficiency: N/A
Efficacy: 34.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.48
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
Input Voltage (V): 12.0
Input Current (A_{in}): 0.677
Voltage Rise (V): NR
Power Factor: 0.9909
Total Harmonic Distortion (THDi): 27.3%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.8
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 | 113 | 111 | 109 | 113 | 111 | 109 | 107 | 107 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 96 |
| 2 | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 101 | 103 | 100 | 99 | 100 | 98 | 96 | 97 | 96 | 94 | 93 |
| 3 | 107 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 99 | 96 | 94 | 97 | 94 | 92 | 95 | 93 | 91 | 90 |
| 4 | 104 | 99 | 94 | 91 | 102 | 97 | 94 | 91 | 95 | 92 | 90 | 94 | 91 | 89 | 92 | 90 | 88 | 87 |
| 5 | 101 | 95 | 91 | 87 | 99 | 94 | 90 | 87 | 92 | 89 | 86 | 91 | 88 | 86 | 89 | 87 | 85 | 84 |
| 6 | 98 | 91 | 87 | 84 | 96 | 91 | 87 | 84 | 89 | 86 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 81 |
| 7 | 95 | 88 | 84 | 81 | 94 | 88 | 84 | 81 | 87 | 83 | 80 | 85 | 82 | 80 | 85 | 82 | 80 | 79 |
| 8 | 92 | 85 | 81 | 78 | 91 | 85 | 81 | 78 | 84 | 80 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 76 |
| 9 | 90 | 83 | 78 | 76 | 89 | 82 | 78 | 76 | 81 | 78 | 75 | 81 | 77 | 75 | 80 | 77 | 75 | 74 |
| 10 | 87 | 80 | 76 | 73 | 86 | 80 | 76 | 73 | 79 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 508181 |
| 5° | 456138 |
| 10° | 364220 |
| 15° | 246198 |
| 20° | 126535 |
| 25° | 47906 |
| 30° | 15952 |
| 35° | 7228 |
| 40° | 3220 |
| 45° | 2093 |
| 50° | 768 |
| 55° | 860 |
| 60° | 0 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.9 | 30.6 |
| 10°-20° | 128.9 | 48.1 |
| 20°-30° | 45.8 | 17.1 |
| 30°-40° | 8.3 | 3.1 |
| 40°-50° | 2.3 | 0.9 |
| 50°-60° | 0.8 | 0.3 |
| 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° | 256.6 | 95.8 |
| 0°-40° | 264.9 | 98.9 |
| 0°-60° | 267.9 | 100.0 |
| 0°-90° | 267.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 267.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1030 | |
| 5° | 921 | 82 |
| 15° | 482 | 129 |
| 25° | 88 | 46 |
| 35° | 12 | 8 |
| 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° | 1030 |
| 1° | 1020 |
| 2° | 1000 |
| 3° | 976 |
| 4° | 949 |
| 5° | 921 |
| 6° | 891 |
| 7° | 857 |
| 8° | 816 |
| 9° | 772 |
| 10° | 727 |
| 11° | 677 |
| 12° | 626 |
| 13° | 576 |
| 14° | 528 |
| 15° | 482 |
| 16° | 433 |
| 17° | 384 |
| 18° | 334 |
| 19° | 286 |
| 20° | 241 |
| 22.5° | 148 |
| 25° | 88 |
| 26° | 71 |
| 27° | 58 |
| 28° | 46 |
| 29° | 36 |
| 30° | 28 |
| 32.5° | 18 |
| 35° | 12 |
| 37.5° | 8 |
| 40° | 5 |
| 42.5° | 4 |
| 45° | 3 |
| 47.5° | 2 |
| 50° | 1 |
| 52.5° | 1 |
| 55° | 1 |
| 57.5° | 1 |
| 60° | 0 |
| 62.5° | 0 |
| 65° | 0 |
| 67.5° | 0 |
| 70° | 0 |
| 72.5° | 0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|----|
| 75° | 0 |
| 77.5° | 0 |
| 80° | 0 |
| 82.5° | 0 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |

(END OF REPORT)