

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: G2-1802-569-28

Luminaire Tested: **203-SS-8LED4025-12-BK-DIFF**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-28
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-28)
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: 203-SS-8LED4025-12-BK-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD BLACK, DIFFUSED LENS
Light Source: (1) SORAA 4000K 95 CRI 25°NFL LED
SM16-07-25D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

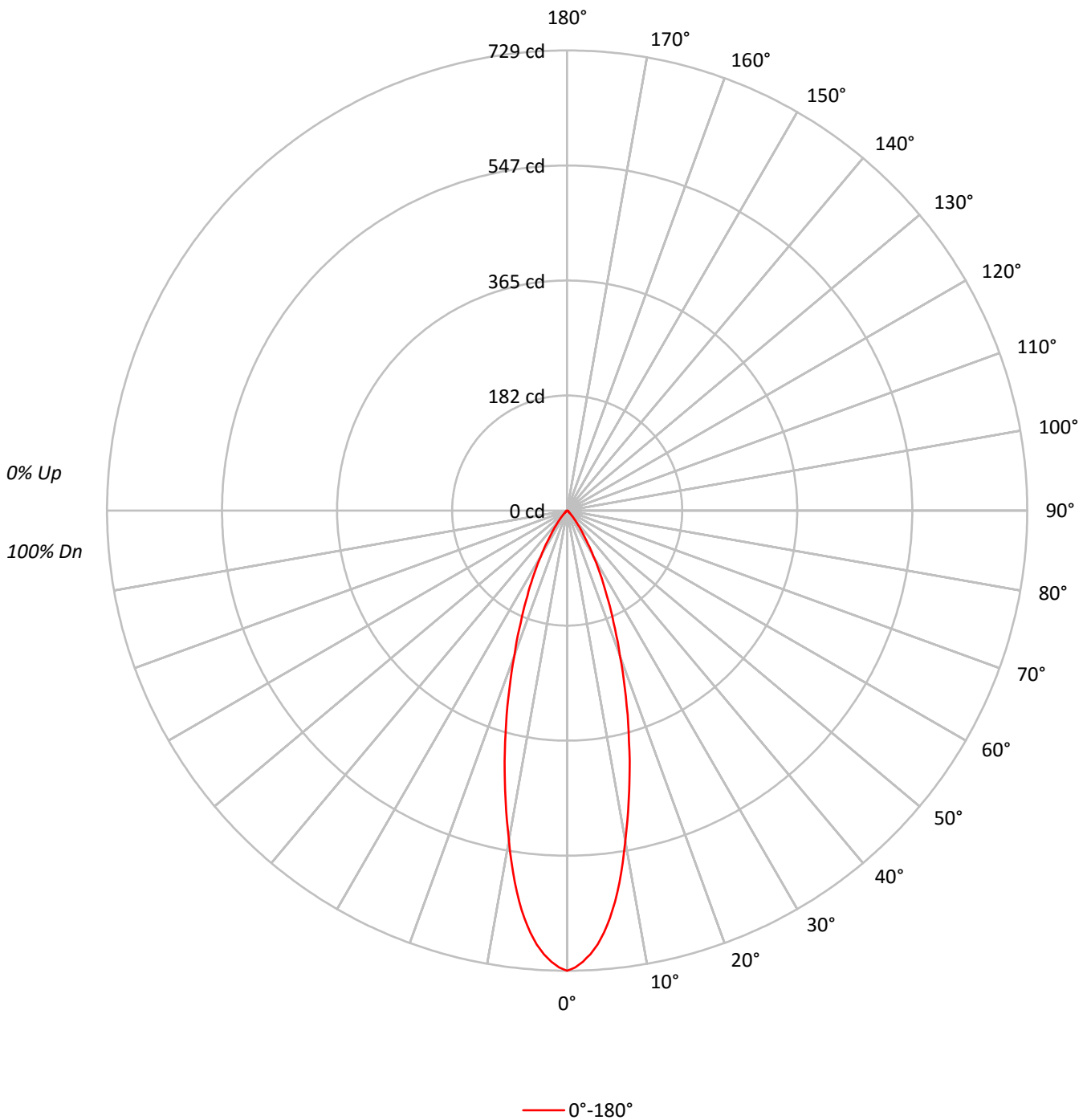
Lumens per Lamp: N/A
Luminaire Lumens: 267.7 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.54
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 12.0
Input Current (A_{in}): 0.693
Voltage Rise (V): NR
Power Factor: 0.9491
Total Harmonic Distortion (THDi): 26.9%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 25.1
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 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 |
| 2 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 94 | 92 | 91 |
| 3 | 106 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 94 | 91 | 89 | 92 | 90 | 88 | 86 |
| 4 | 101 | 95 | 90 | 87 | 100 | 94 | 90 | 86 | 92 | 88 | 85 | 90 | 87 | 85 | 88 | 86 | 84 | 82 |
| 5 | 97 | 91 | 86 | 82 | 96 | 90 | 85 | 82 | 88 | 84 | 81 | 86 | 83 | 80 | 85 | 82 | 80 | 78 |
| 6 | 94 | 86 | 81 | 78 | 92 | 86 | 81 | 78 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 75 |
| 7 | 90 | 83 | 78 | 74 | 89 | 82 | 77 | 74 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 73 | 72 |
| 8 | 87 | 79 | 74 | 71 | 86 | 79 | 74 | 71 | 78 | 73 | 70 | 77 | 73 | 70 | 76 | 72 | 70 | 69 |
| 9 | 84 | 76 | 71 | 68 | 83 | 76 | 71 | 68 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 70 | 67 | 66 |
| 10 | 81 | 73 | 68 | 65 | 80 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 71 | 67 | 64 | 63 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 359674 |
| 5° | 332322 |
| 10° | 266026 |
| 15° | 193587 |
| 20° | 128636 |
| 25° | 81113 |
| 30° | 47286 |
| 35° | 24092 |
| 40° | 11593 |
| 45° | 4884 |
| 50° | 2303 |
| 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° | 59.5 | 22.2 |
| 10°-20° | 104.3 | 38.9 |
| 20°-30° | 69.3 | 25.9 |
| 30°-40° | 26.8 | 10.0 |
| 40°-50° | 6.3 | 2.4 |
| 50°-60° | 1.3 | 0.5 |
| 60°-70° | 0.1 | 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° | 233.1 | 87.1 |
| 0°-40° | 259.9 | 97.1 |
| 0°-60° | 267.6 | 100.0 |
| 0°-90° | 267.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 267.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 729 | |
| 5° | 671 | 60 |
| 15° | 379 | 104 |
| 25° | 149 | 69 |
| 35° | 40 | 27 |
| 45° | 7 | 6 |
| 55° | 1 | 1 |
| 65° | 0 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-----|
| 0° | 729 |
| 1° | 724 |
| 2° | 715 |
| 3° | 704 |
| 4° | 689 |
| 5° | 671 |
| 6° | 649 |
| 7° | 624 |
| 8° | 595 |
| 9° | 564 |
| 10° | 531 |
| 12.5° | 454 |
| 15° | 379 |
| 17.5° | 309 |
| 20° | 245 |
| 22.5° | 192 |
| 25° | 149 |
| 27.5° | 113 |
| 30° | 83 |
| 32.5° | 58 |
| 35° | 40 |
| 37.5° | 27 |
| 40° | 18 |
| 42.5° | 11 |
| 45° | 7 |
| 47.5° | 5 |
| 50° | 3 |
| 52.5° | 2 |
| 55° | 1 |
| 57.5° | 1 |
| 60° | 1 |
| 62.5° | 0 |
| 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)