

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: G2-1802-569-5

Luminaire Tested: **230-8LED4025-12-BK**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-5
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-5)
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: 230-8LED4025-12-BK
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD BLACK
Light Source: (1) SORAA 4000K 95 CRI 25°NFL LED
SM16-07-25D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

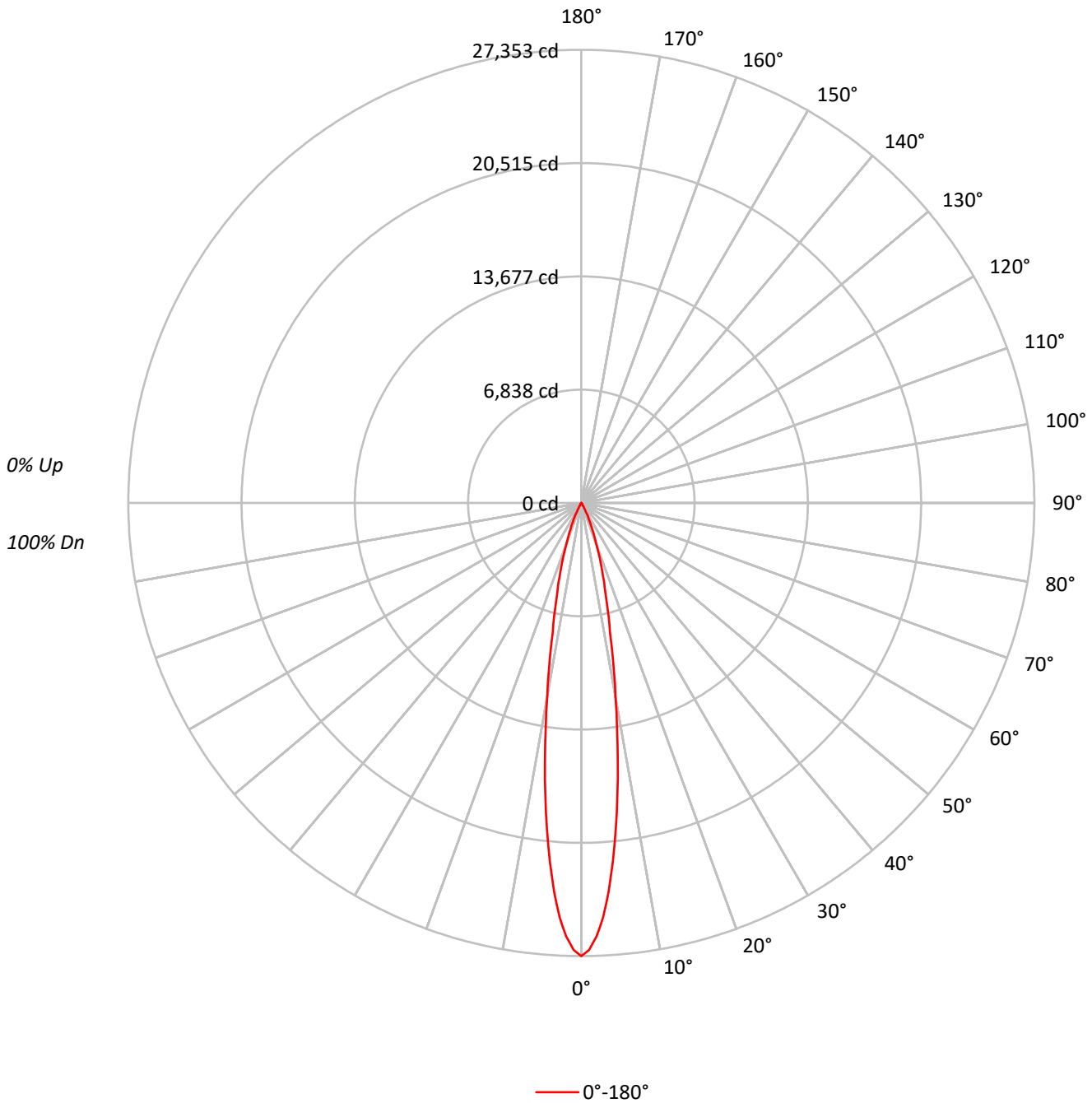
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 506.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.33
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 12.0
Input Current (Ain): 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 | 115 | 113 | 112 | 110 | 113 | 111 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 102 | 100 | 100 | 99 | 97 |
| 2 | 112 | 108 | 106 | 103 | 110 | 107 | 104 | 102 | 104 | 102 | 100 | 101 | 99 | 98 | 98 | 97 | 96 | 95 |
| 3 | 109 | 104 | 101 | 98 | 107 | 103 | 100 | 98 | 101 | 98 | 96 | 98 | 96 | 95 | 96 | 95 | 93 | 92 |
| 4 | 106 | 101 | 97 | 94 | 104 | 100 | 96 | 94 | 98 | 95 | 93 | 96 | 94 | 92 | 94 | 92 | 91 | 90 |
| 5 | 103 | 97 | 94 | 91 | 102 | 97 | 93 | 91 | 95 | 92 | 90 | 94 | 91 | 89 | 92 | 90 | 88 | 87 |
| 6 | 100 | 95 | 91 | 88 | 99 | 94 | 90 | 88 | 93 | 90 | 87 | 91 | 89 | 87 | 90 | 88 | 86 | 85 |
| 7 | 98 | 92 | 88 | 85 | 97 | 91 | 88 | 85 | 90 | 87 | 85 | 89 | 87 | 84 | 88 | 86 | 84 | 83 |
| 8 | 96 | 90 | 86 | 83 | 95 | 89 | 86 | 83 | 88 | 85 | 83 | 87 | 85 | 82 | 87 | 84 | 82 | 81 |
| 9 | 93 | 87 | 84 | 81 | 93 | 87 | 83 | 81 | 86 | 83 | 81 | 85 | 83 | 81 | 85 | 82 | 80 | 79 |
| 10 | 91 | 85 | 82 | 79 | 91 | 85 | 81 | 79 | 84 | 81 | 79 | 84 | 81 | 79 | 83 | 81 | 79 | 78 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|----------|
| | 0° |
| 0° | 13495263 |
| 5° | 10772838 |
| 10° | 5944055 |
| 15° | 2871781 |
| 20° | 1408639 |
| 25° | 593542 |
| 30° | 133995 |
| 35° | 51497 |
| 40° | 27566 |
| 45° | 14932 |
| 50° | 8213 |
| 55° | 9204 |
| 60° | 10558 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1747.2 | 43.7 |
| 10°-20° | 1635.9 | 40.9 |
| 20°-30° | 525.7 | 13.1 |
| 30°-40° | 63.2 | 1.6 |
| 40°-50° | 17.2 | 0.4 |
| 50°-60° | 9.6 | 0.2 |
| 60°-70° | 1.3 | 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° | 3908.7 | 97.7 |
| 0°-40° | 3971.9 | 99.3 |
| 0°-60° | 3998.8 | 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° | 27353 | |
| 5° | 21752 | ### |
| 15° | 5622 | 1636 |
| 25° | 1090 | 526 |
| 35° | 86 | 63 |
| 45° | 21 | 17 |
| 55° | 11 | 10 |
| 65° | 0 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 27352.7 |
| 1° | 26978.6 |
| 2° | 26187.6 |
| 3° | 25043.9 |
| 4° | 23526.1 |
| 5° | 21751.7 |
| 6° | 19827.7 |
| 7° | 17839.6 |
| 8° | 15798.1 |
| 9° | 13788.6 |
| 10° | 11864.6 |
| 12.5° | 7973.9 |
| 15° | 5622.3 |
| 17.5° | 3986.9 |
| 20° | 2682.9 |
| 22.5° | 1731.6 |
| 25° | 1090.3 |
| 27.5° | 545.1 |
| 30° | 235.2 |
| 32.5° | 139.0 |
| 35° | 85.5 |
| 37.5° | 53.4 |
| 40° | 42.8 |
| 42.5° | 32.1 |
| 45° | 21.4 |
| 47.5° | 10.7 |
| 50° | 10.7 |
| 52.5° | 10.7 |
| 55° | 10.7 |
| 57.5° | 10.7 |
| 60° | 10.7 |
| 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)