

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: P246955

Luminaire Tested: **203-FL-8LED3025-12-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246955
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-2)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED3025-12-BK
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 25 DEGREE NARROW OPTIC, FLUSH HOOD BLACK
Light Source: (1) SORAA 3000K 90 CRI 25° NFL LED SM16-07-25D-930-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 369.8 lumens
Efficiency: N/A
Efficacy: 47.4 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

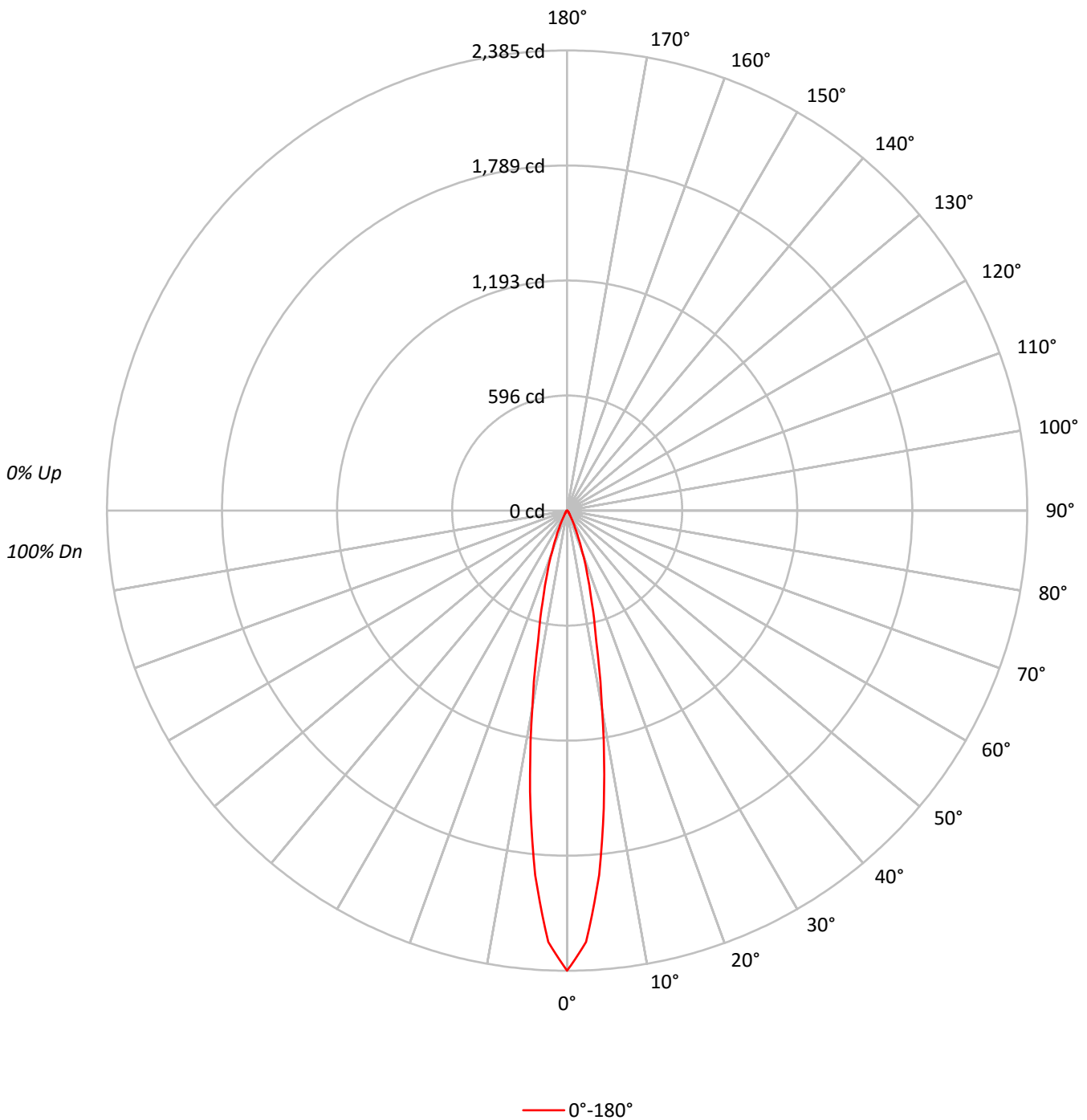
Input Watts (W): 7.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 97 |
| 2 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99 | | 100 | 98 | 97 | | 97 | 96 | 95 | 93 |
| 3 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 96 | 99 | 96 | 94 | | 97 | 95 | 93 | | 95 | 93 | 91 | 90 |
| 4 | 104 | 99 | 95 | 92 | 103 | 98 | 94 | 92 | 96 | 93 | 91 | | 94 | 92 | 90 | | 92 | 90 | 89 | 87 |
| 5 | 101 | 96 | 91 | 88 | 100 | 95 | 91 | 88 | 93 | 90 | 87 | | 92 | 89 | 87 | | 90 | 88 | 86 | 85 |
| 6 | 99 | 92 | 88 | 85 | 97 | 92 | 88 | 85 | 90 | 87 | 85 | | 89 | 86 | 84 | | 88 | 85 | 84 | 82 |
| 7 | 96 | 90 | 86 | 83 | 95 | 89 | 85 | 82 | 88 | 85 | 82 | | 87 | 84 | 82 | | 86 | 83 | 81 | 80 |
| 8 | 94 | 87 | 83 | 80 | 93 | 87 | 83 | 80 | 86 | 82 | 80 | | 85 | 82 | 80 | | 84 | 81 | 79 | 78 |
| 9 | 91 | 85 | 81 | 78 | 90 | 84 | 81 | 78 | 84 | 80 | 78 | | 83 | 80 | 78 | | 82 | 79 | 77 | 76 |
| 10 | 89 | 83 | 79 | 76 | 88 | 82 | 79 | 76 | 82 | 78 | 76 | | 81 | 78 | 76 | | 80 | 78 | 76 | 75 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1176562 |
| 5° | 939120 |
| 10° | 519628 |
| 15° | 250846 |
| 20° | 122388 |
| 25° | 51172 |
| 30° | 20680 |
| 35° | 11203 |
| 40° | 6827 |
| 45° | 4954 |
| 50° | 4068 |
| 55° | 3785 |
| 60° | 3454 |
| 65° | 3152 |
| 70° | 2597 |
| 75° | 1716 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.4 | 41.5 |
| 10°-20° | 143.0 | 38.7 |
| 20°-30° | 47.9 | 12.9 |
| 30°-40° | 12.5 | 3.4 |
| 40°-50° | 5.6 | 1.5 |
| 50°-60° | 3.7 | 1.0 |
| 60°-70° | 2.7 | 0.7 |
| 70°-80° | 1.2 | 0.3 |
| 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° | 344.2 | 93.1 |
| 0°-40° | 356.7 | 96.4 |
| 0°-60° | 366.0 | 99.0 |
| 0°-90° | 369.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 369.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2385 | |
| 5° | 1896 | 153 |
| 15° | 491 | 143 |
| 25° | 94 | 48 |
| 35° | 19 | 12 |
| 45° | 7 | 6 |
| 55° | 4 | 4 |
| 65° | 3 | 3 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P246955

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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2384.7 |
| 2.5° | 2238.4 |
| 5° | 1896.2 |
| 7.5° | 1468.9 |
| 10° | 1037.2 |
| 12.5° | 696.8 |
| 15° | 491.1 |
| 17.5° | 349.3 |
| 20° | 233.1 |
| 22.5° | 148.9 |
| 25° | 94.0 |
| 27.5° | 58.5 |
| 30° | 36.3 |
| 32.5° | 23.9 |
| 35° | 18.6 |
| 37.5° | 15.1 |
| 40° | 10.6 |
| 42.5° | 8.0 |
| 45° | 7.1 |
| 47.5° | 6.2 |
| 50° | 5.3 |
| 52.5° | 4.4 |
| 55° | 4.4 |
| 57.5° | 3.5 |
| 60° | 3.5 |
| 62.5° | 2.7 |
| 65° | 2.7 |
| 67.5° | 2.7 |
| 70° | 1.8 |
| 72.5° | 1.8 |
| 75° | 0.9 |
| 77.5° | 0.9 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)