

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: P247002

Luminaire Tested: **203-FL-8LED2725-12-BK-OSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247002
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-19)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED2725-12-BK-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 25 DEGREE NARROW OPTIC, FLUSH HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 2700K 90 CRI LED
SM16-07-25D-927-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

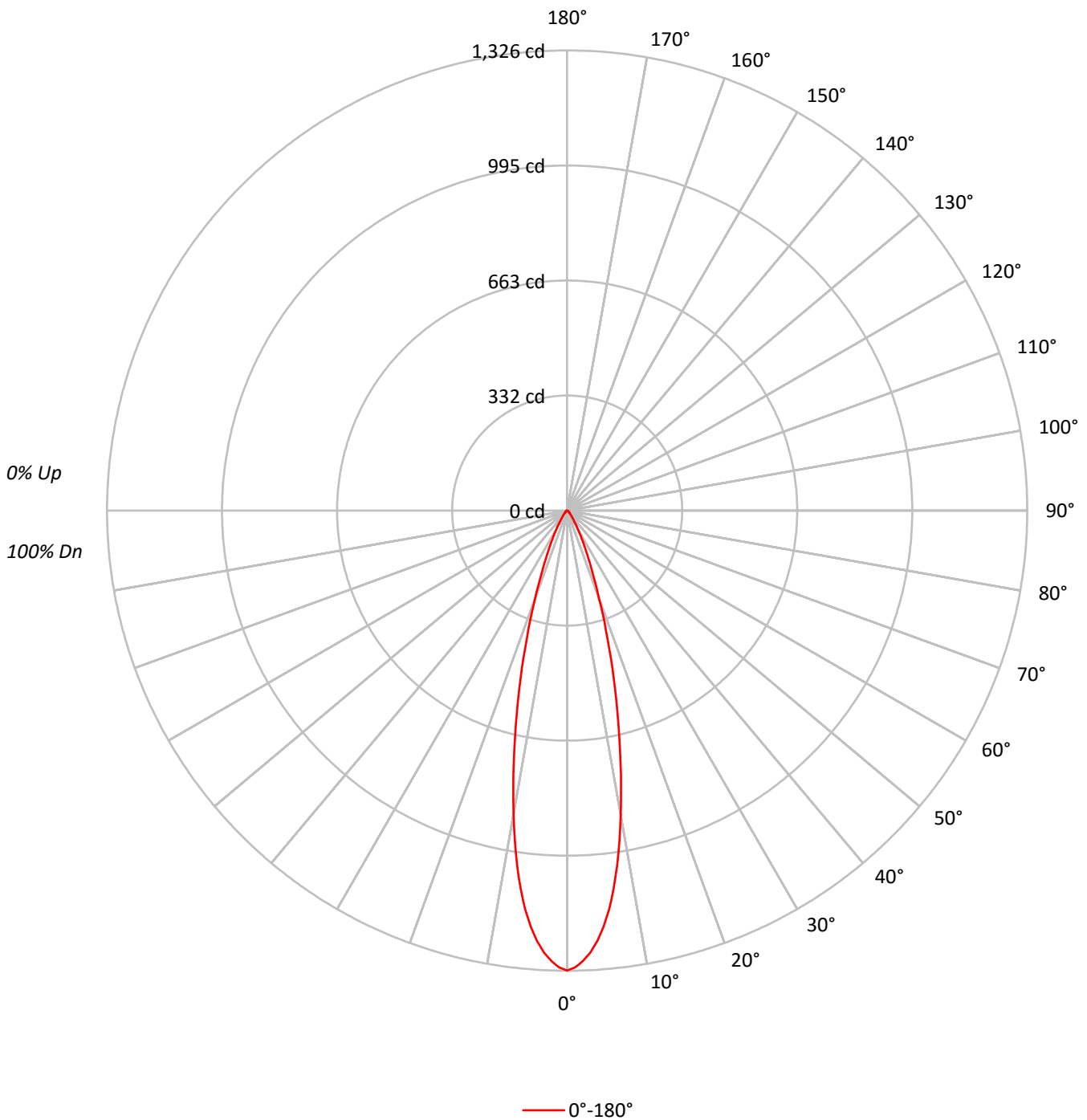
Lumens per Lamp: N/A
Luminaire Lumens: 349.9 lumens
Efficiency: N/A
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.45
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 |
| 2 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 94 | 93 | 92 |
| 3 | 106 | 101 | 97 | 94 | 104 | 100 | 96 | 93 | 97 | 94 | 92 | 95 | 92 | 90 | 93 | 91 | 89 | 88 |
| 4 | 103 | 97 | 92 | 89 | 101 | 96 | 91 | 88 | 93 | 90 | 87 | 92 | 89 | 86 | 90 | 87 | 85 | 84 |
| 5 | 99 | 93 | 88 | 85 | 98 | 92 | 87 | 84 | 90 | 86 | 84 | 88 | 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 | 93 | 86 | 81 | 78 | 92 | 85 | 81 | 78 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 75 |
| 8 | 90 | 83 | 78 | 75 | 89 | 82 | 78 | 75 | 81 | 77 | 74 | 80 | 77 | 74 | 79 | 76 | 74 | 73 |
| 9 | 87 | 80 | 75 | 72 | 86 | 79 | 75 | 72 | 78 | 75 | 72 | 78 | 74 | 72 | 77 | 74 | 71 | 70 |
| 10 | 85 | 77 | 73 | 70 | 84 | 77 | 73 | 70 | 76 | 72 | 70 | 75 | 72 | 69 | 75 | 72 | 69 | 68 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 653975 |
| 5° | 596348 |
| 10° | 445481 |
| 15° | 272299 |
| 20° | 140922 |
| 25° | 70062 |
| 30° | 34866 |
| 35° | 17587 |
| 40° | 9983 |
| 45° | 6977 |
| 50° | 4912 |
| 55° | 3957 |
| 60° | 3651 |
| 65° | 3152 |
| 70° | 2597 |
| 75° | 1716 |
| 80° | 2557 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.8 | 29.9 |
| 10°-20° | 146.4 | 41.8 |
| 20°-30° | 62.9 | 18.0 |
| 30°-40° | 20.0 | 5.7 |
| 40°-50° | 7.9 | 2.2 |
| 50°-60° | 4.4 | 1.3 |
| 60°-70° | 2.5 | 0.7 |
| 70°-80° | 1.1 | 0.3 |
| 80°-90° | 0.1 | 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° | 314.1 | 89.7 |
| 0°-40° | 334.0 | 95.5 |
| 0°-60° | 346.3 | 99.0 |
| 0°-90° | 349.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 349.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1326 | |
| 5° | 1204 | 105 |
| 15° | 533 | 146 |
| 25° | 129 | 63 |
| 35° | 29 | 20 |
| 45° | 10 | 8 |
| 55° | 5 | 4 |
| 65° | 3 | 2 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1325.5 |
| 1° | 1316.4 |
| 2° | 1299.0 |
| 3° | 1275.3 |
| 4° | 1243.3 |
| 5° | 1204.1 |
| 6° | 1155.7 |
| 7° | 1099.1 |
| 8° | 1033.4 |
| 9° | 964.0 |
| 10° | 889.2 |
| 11° | 813.4 |
| 12° | 739.4 |
| 13° | 665.5 |
| 14° | 597.9 |
| 15° | 533.1 |
| 17.5° | 385.2 |
| 20° | 268.4 |
| 22.5° | 184.4 |
| 25° | 128.7 |
| 27.5° | 89.5 |
| 30° | 61.2 |
| 32.5° | 42.0 |
| 35° | 29.2 |
| 37.5° | 21.0 |
| 40° | 15.5 |
| 42.5° | 11.9 |
| 45° | 10.0 |
| 47.5° | 8.2 |
| 50° | 6.4 |
| 52.5° | 5.5 |
| 55° | 4.6 |
| 57.5° | 4.6 |
| 60° | 3.7 |
| 62.5° | 2.7 |
| 65° | 2.7 |
| 67.5° | 1.8 |
| 70° | 1.8 |
| 72.5° | 0.9 |
| 75° | 0.9 |
| 77.5° | 0.9 |
| 80° | 0.9 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

(END OF REPORT)