

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: P247015

Luminaire Tested: **230-8LED2710-12-CS-OSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247015
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-39)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED2710-12-CS-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD SILVER, OVERALL SPREAD LENS
Light Source: (1) SORAA 2700K 95 CRI 10° NSP LED
SM16-07-10D-927-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

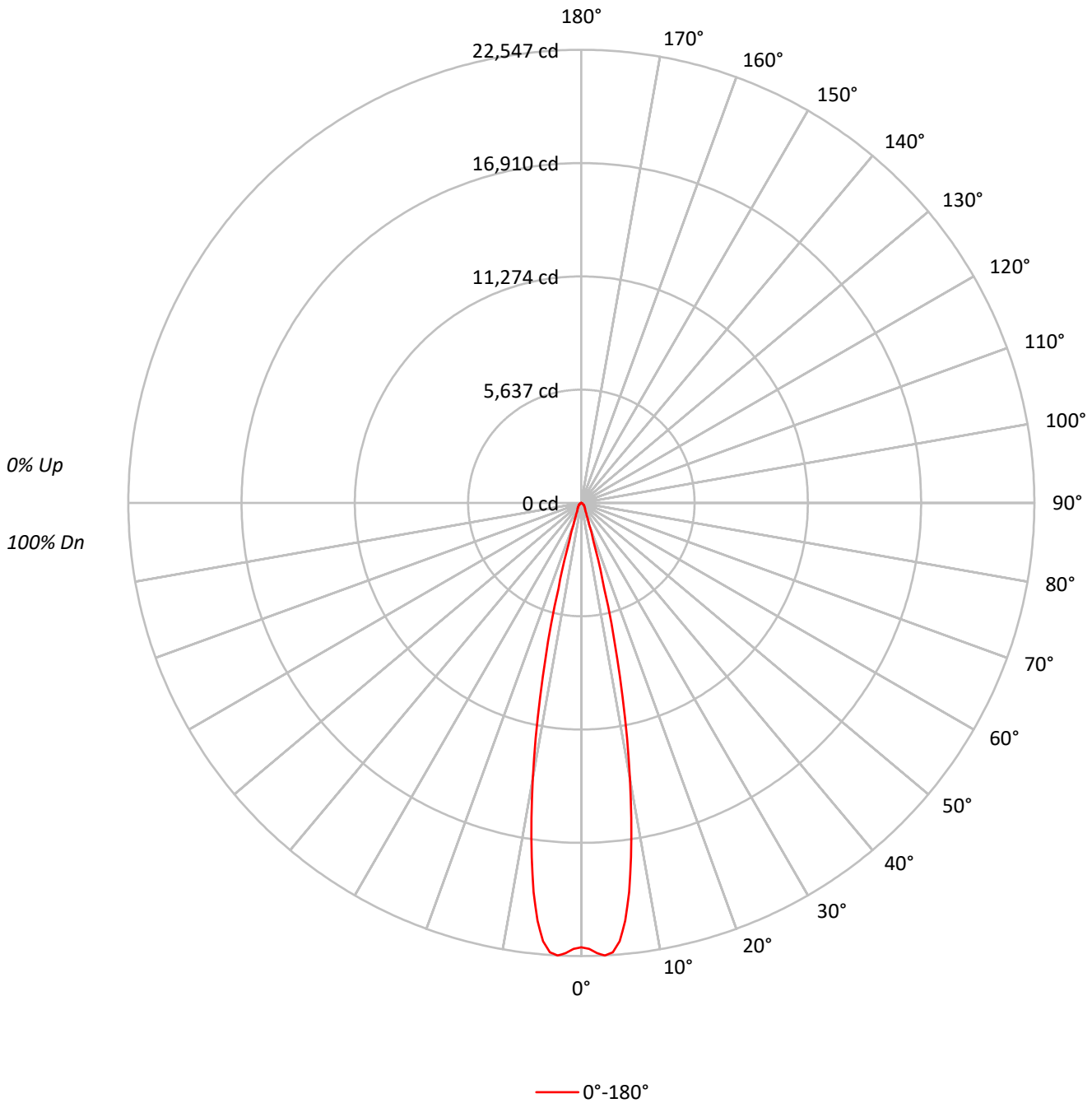
Lumens per Lamp: N/A
Luminaire Lumens: 3999.9 lumens
Efficiency: N/A
Efficacy: 533.3 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
Input Voltage (V): NR
Input Current (Ain): 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 | 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 | 93 | 95 | 93 | 91 | 90 |
| 4 | 104 | 99 | 95 | 92 | 103 | 98 | 94 | 91 | 96 | 93 | 90 | 94 | 91 | 89 | 92 | 90 | 88 | 87 |
| 5 | 101 | 95 | 91 | 88 | 100 | 94 | 91 | 88 | 93 | 90 | 87 | 91 | 88 | 86 | 90 | 87 | 86 | 84 |
| 6 | 98 | 92 | 88 | 85 | 97 | 91 | 88 | 85 | 90 | 87 | 84 | 89 | 86 | 84 | 88 | 85 | 83 | 82 |
| 7 | 96 | 89 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 82 | 87 | 84 | 81 | 86 | 83 | 81 | 80 |
| 8 | 93 | 87 | 83 | 80 | 92 | 86 | 83 | 80 | 86 | 82 | 80 | 85 | 82 | 79 | 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° | 10907388 |
| 5° | 10840194 |
| 10° | 6980354 |
| 15° | 2245662 |
| 20° | 599022 |
| 25° | 306434 |
| 30° | 219508 |
| 35° | 190389 |
| 40° | 158954 |
| 45° | 134455 |
| 50° | 115518 |
| 55° | 82835 |
| 60° | 54962 |
| 65° | 31638 |
| 70° | 19474 |
| 75° | 25735 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1818.8 | 45.5 |
| 10°-20° | 1428.0 | 35.7 |
| 20°-30° | 285.3 | 7.1 |
| 30°-40° | 194.7 | 4.9 |
| 40°-50° | 152.0 | 3.8 |
| 50°-60° | 87.1 | 2.2 |
| 60°-70° | 25.2 | 0.6 |
| 70°-80° | 8.9 | 0.2 |
| 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° | 3532.1 | 88.3 |
| 0°-40° | 3726.8 | 93.2 |
| 0°-60° | 3965.9 | 99.1 |
| 0°-90° | 3999.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3999.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 22108 | |
| 5° | 21888 | ### |
| 15° | 4396 | 1428 |
| 25° | 563 | 285 |
| 35° | 316 | 195 |
| 45° | 193 | 152 |
| 55° | 96 | 87 |
| 65° | 27 | 25 |
| 75° | 14 | 9 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 22107.5 |
| 1° | 22190.3 |
| 2° | 22410.0 |
| 3° | 22547.0 |
| 4° | 22410.0 |
| 5° | 21887.7 |
| 6° | 20898.8 |
| 7° | 19497.6 |
| 8° | 17793.7 |
| 9° | 15870.2 |
| 10° | 13933.1 |
| 12.5° | 8862.3 |
| 15° | 4396.5 |
| 17.5° | 2033.4 |
| 20° | 1140.9 |
| 22.5° | 769.1 |
| 25° | 562.9 |
| 27.5° | 453.0 |
| 30° | 385.3 |
| 32.5° | 343.2 |
| 35° | 316.1 |
| 37.5° | 275.4 |
| 40° | 246.8 |
| 42.5° | 219.8 |
| 45° | 192.7 |
| 47.5° | 179.1 |
| 50° | 150.5 |
| 52.5° | 123.4 |
| 55° | 96.3 |
| 57.5° | 69.2 |
| 60° | 55.7 |
| 62.5° | 27.1 |
| 65° | 27.1 |
| 67.5° | 13.5 |
| 70° | 13.5 |
| 72.5° | 13.5 |
| 75° | 13.5 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)