

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: P247005

Luminaire Tested: **203-FL-8LED2736-12-BK-LSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247005
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-21)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED2736-12-BK-LSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 36 DEGREE WIDE OPTIC, FLUSH HOOD BLACK, LINEAR SPREAD LENS
Light Source: (1) SORAA 2700K 95 CRI LED
SM16-07-36D-927-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

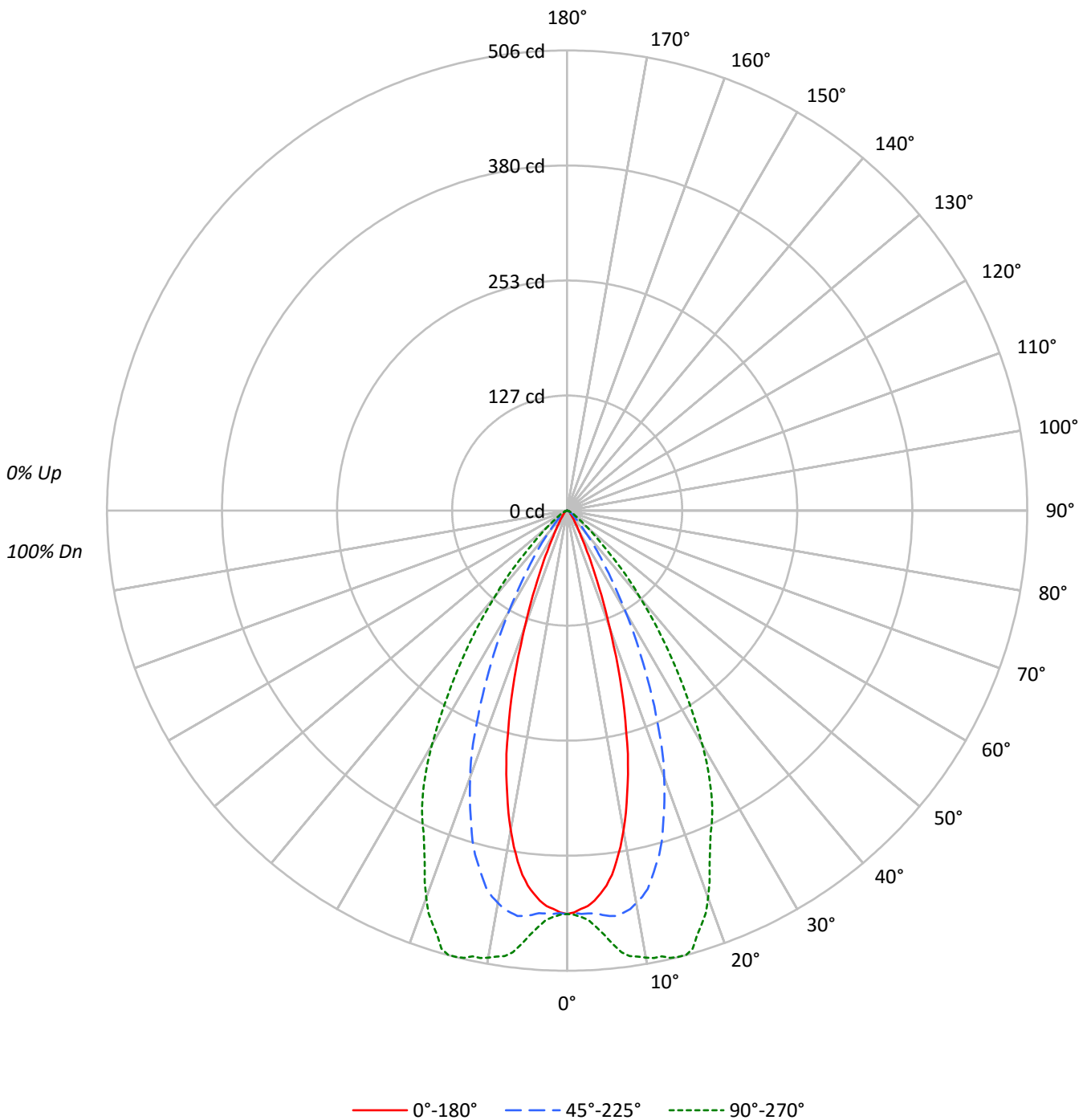
Lumens per Lamp: N/A
Luminaire Lumens: 338.7 lumens
Efficiency: N/A
Efficacy: 44.0 lumens/watt
Spacing Criteria (0/90/45): 0.54 / 1.08 / 0.77
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 94 | | | | 94 |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 92 | 90 | 89 | 87 | | | | 87 |
| 3 | 103 | 96 | 91 | 87 | 101 | 95 | 90 | 87 | 92 | 88 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 81 | | | | 81 |
| 4 | 98 | 90 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 | | | | 76 |
| 5 | 93 | 84 | 79 | 74 | 91 | 84 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 73 | 79 | 75 | 72 | 71 | | | | 71 |
| 6 | 88 | 79 | 74 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 69 | 76 | 71 | 68 | 74 | 71 | 68 | 66 | | | | 66 |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 69 | 65 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 62 | | | | 62 |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 60 | 67 | 63 | 60 | 59 | | | | 59 |
| 9 | 77 | 67 | 61 | 57 | 75 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 55 | | | | 55 |
| 10 | 73 | 64 | 58 | 54 | 72 | 63 | 58 | 54 | 62 | 57 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 52 | | | | 52 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 218913 | 218913 | 218913 |
| 5° | 209348 | 221086 | 231932 |
| 10° | 178804 | 219534 | 250145 |
| 15° | 128207 | 200023 | 258304 |
| 20° | 71878 | 163919 | 237740 |
| 25° | 32826 | 117260 | 205233 |
| 30° | 14584 | 72808 | 169544 |
| 35° | 8252 | 40114 | 122629 |
| 40° | 5281 | 21190 | 79992 |
| 45° | 3838 | 11443 | 43330 |
| 50° | 3531 | 7676 | 23104 |
| 55° | 3183 | 5505 | 12559 |
| 60° | 2664 | 3651 | 8091 |
| 65° | 2101 | 3152 | 5370 |
| 70° | 2597 | 2597 | 3895 |
| 75° | 1716 | 1716 | 1716 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.3 | 12.5 |
| 10°-20° | 105.3 | 31.1 |
| 20°-30° | 99.4 | 29.3 |
| 30°-40° | 58.3 | 17.2 |
| 40°-50° | 22.0 | 6.5 |
| 50°-60° | 7.4 | 2.2 |
| 60°-70° | 3.0 | 0.9 |
| 70°-80° | 1.1 | 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° | 247.0 | 72.9 |
| 0°-40° | 305.2 | 90.1 |
| 0°-60° | 334.6 | 98.8 |
| 0°-90° | 338.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 338.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 444 | 444 | 444 | 444 | 444 | |
| 5° | 423 | 430 | 446 | 463 | 468 | 38 |
| 15° | 251 | 292 | 392 | 476 | 506 | 67 |
| 25° | 60 | 88 | 215 | 340 | 377 | 29 |
| 35° | 14 | 20 | 67 | 171 | 204 | 9 |
| 45° | 6 | 8 | 16 | 48 | 62 | 5 |
| 55° | 4 | 5 | 6 | 12 | 15 | 3 |
| 65° | 2 | 3 | 3 | 4 | 5 | 2 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 443.7 | 443.7 | 443.7 | 443.7 | 443.7 |
| 1° | 441.8 | 441.8 | 442.7 | 443.7 | 444.6 |
| 2° | 438.2 | 440.0 | 443.7 | 446.4 | 447.3 |
| 3° | 435.4 | 438.2 | 443.7 | 448.2 | 451.0 |
| 4° | 430.0 | 435.4 | 443.7 | 454.6 | 459.2 |
| 5° | 422.7 | 430.0 | 446.4 | 462.8 | 468.3 |
| 6° | 414.4 | 423.6 | 448.2 | 469.2 | 479.3 |
| 7° | 403.5 | 414.4 | 449.1 | 478.4 | 489.3 |
| 8° | 389.8 | 404.4 | 446.4 | 482.9 | 494.8 |
| 9° | 374.3 | 393.5 | 443.7 | 483.8 | 496.6 |
| 10° | 356.9 | 379.8 | 438.2 | 484.7 | 499.3 |
| 11° | 338.7 | 365.2 | 432.7 | 482.9 | 501.2 |
| 12° | 317.7 | 349.6 | 425.4 | 482.0 | 501.2 |
| 13° | 297.6 | 331.4 | 414.4 | 480.2 | 504.8 |
| 14° | 275.7 | 312.2 | 402.6 | 479.3 | 505.7 |
| 15° | 251.0 | 292.1 | 391.6 | 476.5 | 505.7 |
| 16° | 228.2 | 271.1 | 377.9 | 474.7 | 501.2 |
| 17° | 204.5 | 248.3 | 360.6 | 468.3 | 488.4 |
| 18° | 181.7 | 225.5 | 345.1 | 454.6 | 478.4 |
| 19° | 157.0 | 201.7 | 328.6 | 439.1 | 468.3 |
| 20° | 136.9 | 179.8 | 312.2 | 425.4 | 452.8 |
| 21° | 117.8 | 157.0 | 294.9 | 411.7 | 437.3 |
| 22° | 100.4 | 136.9 | 276.6 | 396.2 | 418.1 |
| 23° | 84.0 | 117.8 | 254.7 | 377.9 | 402.6 |
| 24° | 71.2 | 102.2 | 235.5 | 359.7 | 388.0 |
| 25° | 60.3 | 87.6 | 215.4 | 340.5 | 377.0 |
| 26° | 50.2 | 75.8 | 196.3 | 324.1 | 364.2 |
| 27° | 42.0 | 63.9 | 178.0 | 309.5 | 349.6 |
| 28° | 34.7 | 54.8 | 161.6 | 293.9 | 333.2 |
| 29° | 29.2 | 45.6 | 144.2 | 278.4 | 315.9 |
| 30° | 25.6 | 39.3 | 127.8 | 260.2 | 297.6 |
| 32.5° | 18.3 | 27.4 | 93.1 | 216.4 | 248.3 |
| 35° | 13.7 | 20.1 | 66.6 | 170.7 | 203.6 |
| 37.5° | 11.0 | 15.5 | 47.5 | 130.5 | 162.5 |
| 40° | 8.2 | 12.8 | 32.9 | 94.0 | 124.2 |
| 42.5° | 7.3 | 10.0 | 22.8 | 66.6 | 94.0 |
| 45° | 5.5 | 8.2 | 16.4 | 47.5 | 62.1 |
| 47.5° | 4.6 | 6.4 | 12.8 | 33.8 | 42.0 |
| 50° | 4.6 | 5.5 | 10.0 | 21.9 | 30.1 |
| 52.5° | 3.7 | 4.6 | 8.2 | 15.5 | 20.1 |
| 55° | 3.7 | 4.6 | 6.4 | 11.9 | 14.6 |
| 57.5° | 3.7 | 3.7 | 4.6 | 9.1 | 11.0 |
| 60° | 2.7 | 2.7 | 3.7 | 6.4 | 8.2 |
| 62.5° | 2.7 | 2.7 | 3.7 | 4.6 | 5.5 |
| 65° | 1.8 | 2.7 | 2.7 | 3.7 | 4.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-----|-------|-----|-------|-----|
| 67.5° | 1.8 | 1.8 | 1.8 | 2.7 | 3.7 |
| 70° | 1.8 | 1.8 | 1.8 | 1.8 | 2.7 |
| 72.5° | 0.9 | 0.9 | 0.9 | 1.8 | 1.8 |
| 75° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 77.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)