

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: P247026

Luminaire Tested: **230-8LED2736-12-BK**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247026
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED2736-12-BK
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD BLACK
Light Source: (1) SORAA 2700K 95 CRI LED
SM16-07-36D-927-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

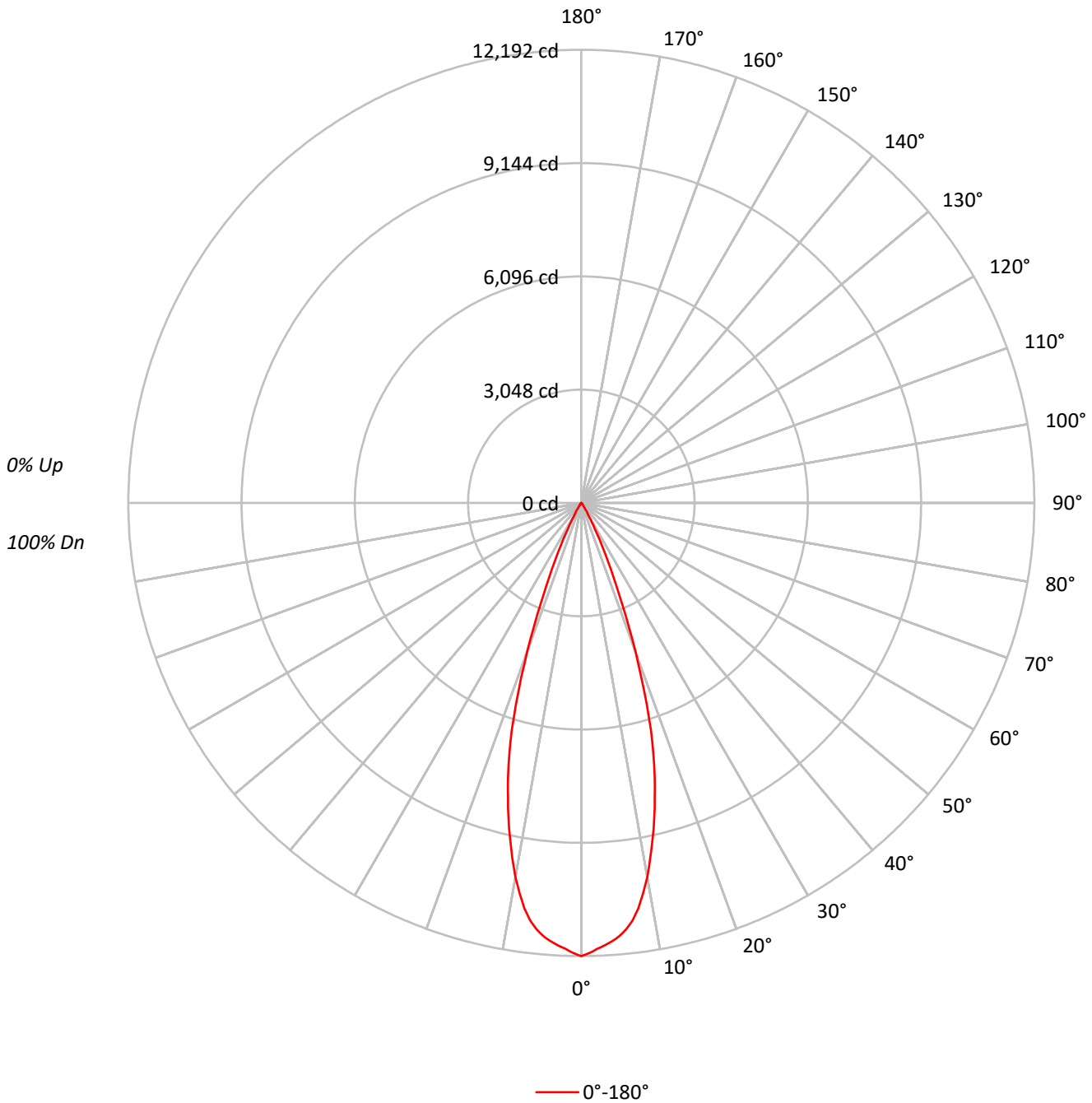
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 512.8 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.54
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.8
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 | 100 | 102 | 100 | 98 | 100 | 98 | 96 | 97 | 96 | 94 | 93 |
| 3 | 107 | 102 | 99 | 96 | 105 | 101 | 98 | 95 | 99 | 96 | 94 | 96 | 94 | 92 | 94 | 92 | 91 | 89 |
| 4 | 104 | 98 | 94 | 91 | 102 | 97 | 93 | 90 | 95 | 92 | 89 | 93 | 91 | 88 | 92 | 89 | 87 | 86 |
| 5 | 100 | 94 | 90 | 87 | 99 | 93 | 89 | 87 | 92 | 88 | 86 | 90 | 87 | 85 | 89 | 86 | 84 | 83 |
| 6 | 97 | 91 | 86 | 83 | 96 | 90 | 86 | 83 | 89 | 85 | 83 | 87 | 84 | 82 | 86 | 84 | 82 | 80 |
| 7 | 94 | 88 | 83 | 80 | 93 | 87 | 83 | 80 | 86 | 82 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 78 |
| 8 | 91 | 85 | 80 | 77 | 90 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 77 | 81 | 78 | 76 | 75 |
| 9 | 89 | 82 | 78 | 75 | 88 | 81 | 77 | 75 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 74 | 73 |
| 10 | 86 | 79 | 75 | 72 | 85 | 79 | 75 | 72 | 78 | 74 | 72 | 78 | 74 | 72 | 77 | 74 | 72 | 71 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 6015382 |
| 5° | 5796721 |
| 10° | 5120275 |
| 15° | 3897232 |
| 20° | 2230858 |
| 25° | 855663 |
| 30° | 203556 |
| 35° | 71494 |
| 40° | 28274 |
| 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° | 1072.0 | 26.8 |
| 10°-20° | 2030.6 | 50.8 |
| 20°-30° | 781.8 | 19.5 |
| 30°-40° | 87.4 | 2.2 |
| 40°-50° | 17.3 | 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° | 3884.4 | 97.1 |
| 0°-40° | 3971.8 | 99.3 |
| 0°-60° | 3998.7 | 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° | 12192 | |
| 5° | 11704 | ### |
| 15° | 7630 | 2031 |
| 25° | 1572 | 782 |
| 35° | 119 | 87 |
| 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° | 12192.2 |
| 1° | 12116.3 |
| 2° | 12008.2 |
| 3° | 11921.6 |
| 4° | 11824.2 |
| 5° | 11704.3 |
| 6° | 11531.0 |
| 7° | 11314.9 |
| 8° | 11011.0 |
| 9° | 10631.1 |
| 10° | 10220.3 |
| 11° | 9732.4 |
| 12° | 9233.8 |
| 13° | 8713.8 |
| 14° | 8171.3 |
| 15° | 7629.9 |
| 16° | 7034.0 |
| 17° | 6404.8 |
| 18° | 5700.8 |
| 19° | 4963.6 |
| 20° | 4248.9 |
| 21° | 3576.9 |
| 22° | 2947.7 |
| 23° | 2383.8 |
| 24° | 1939.8 |
| 25° | 1571.8 |
| 26° | 1257.2 |
| 27° | 910.6 |
| 28° | 682.6 |
| 29° | 498.6 |
| 30° | 357.3 |
| 32.5° | 194.7 |
| 35° | 118.7 |
| 37.5° | 65.3 |
| 40° | 43.9 |
| 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 |



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CANDELA DISTRIBUTION (continued):

| | 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)