

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: P246987

Luminaire Tested: **213-8LED3036-12-BK-OSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246987
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-35)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 213-8LED3036-12-BK-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 36 DEGREE WIDE OPTIC,
REGRESSED HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 3000K 95 CRI LED
SM16-07-36D-930-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

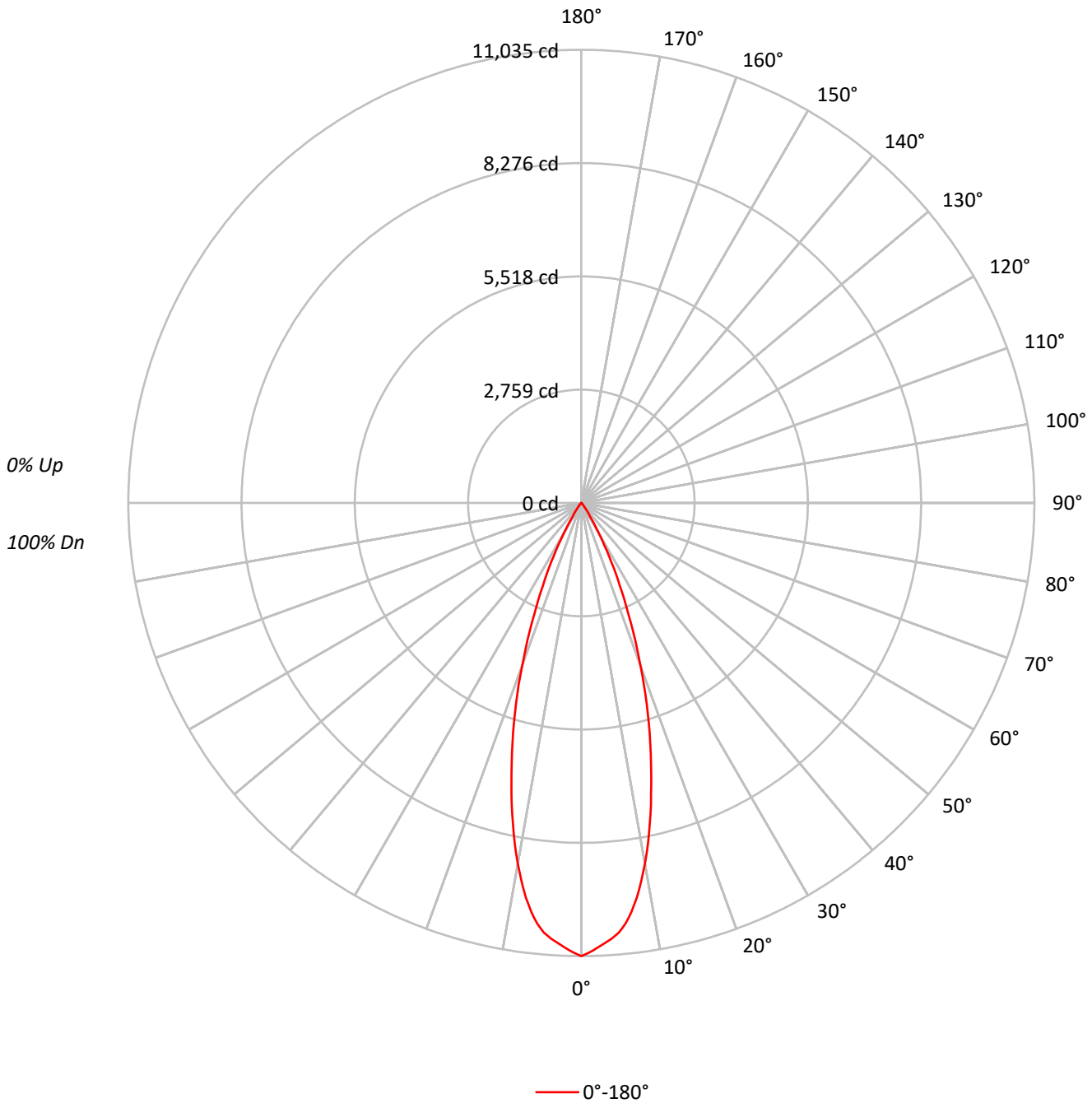
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 519.5 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.56
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.7
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 | 112 | 110 | 109 | 112 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 101 | 100 | 99 | 98 | 98 | 96 |
| 2 | 110 | 107 | 103 | 101 | 108 | 105 | 102 | 99 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 95 | 93 | 92 |
| 3 | 106 | 101 | 97 | 94 | 105 | 100 | 96 | 94 | 98 | 95 | 92 | 95 | 93 | 91 | 93 | 91 | 89 | 88 |
| 4 | 103 | 97 | 92 | 89 | 101 | 96 | 92 | 89 | 94 | 90 | 88 | 92 | 89 | 87 | 90 | 88 | 86 | 84 |
| 5 | 99 | 93 | 88 | 85 | 98 | 92 | 88 | 84 | 90 | 86 | 84 | 89 | 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 | 92 | 85 | 81 | 77 | 91 | 85 | 80 | 77 | 84 | 80 | 77 | 82 | 79 | 76 | 81 | 78 | 76 | 75 |
| 8 | 89 | 82 | 77 | 74 | 88 | 82 | 77 | 74 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 72 |
| 9 | 86 | 79 | 74 | 71 | 86 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 70 |
| 10 | 84 | 76 | 72 | 69 | 83 | 76 | 72 | 69 | 75 | 71 | 69 | 74 | 71 | 68 | 74 | 71 | 68 | 67 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 5444443 |
| 5° | 5201314 |
| 10° | 4466533 |
| 15° | 3350386 |
| 20° | 2213164 |
| 25° | 1205539 |
| 30° | 485446 |
| 35° | 142385 |
| 40° | 53328 |
| 45° | 25189 |
| 50° | 9211 |
| 55° | 10322 |
| 60° | 0 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 951.9 | 23.8 |
| 10°-20° | 1791.2 | 44.8 |
| 20°-30° | 1028.9 | 25.7 |
| 30°-40° | 189.4 | 4.7 |
| 40°-50° | 29.2 | 0.7 |
| 50°-60° | 9.4 | 0.2 |
| 60°-70° | 0.0 | 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° | 3772.0 | 94.3 |
| 0°-40° | 3961.4 | 99.0 |
| 0°-60° | 4000.0 | 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° | 11035 | |
| 5° | 10502 | 952 |
| 15° | 6559 | 1791 |
| 25° | 2214 | 1029 |
| 35° | 236 | 189 |
| 45° | 36 | 29 |
| 55° | 12 | 9 |
| 65° | 0 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 11035.0 |
| 1° | 10952.2 |
| 2° | 10845.4 |
| 3° | 10739.9 |
| 4° | 10633.0 |
| 5° | 10502.1 |
| 6° | 10301.8 |
| 7° | 10029.3 |
| 8° | 9708.7 |
| 9° | 9318.7 |
| 10° | 8915.4 |
| 11° | 8477.3 |
| 12° | 8004.5 |
| 13° | 7530.3 |
| 14° | 7033.5 |
| 15° | 6559.3 |
| 16° | 6086.4 |
| 17° | 5624.3 |
| 18° | 5162.2 |
| 19° | 4689.4 |
| 20° | 4215.2 |
| 21° | 3765.1 |
| 22° | 3351.1 |
| 23° | 2937.0 |
| 24° | 2557.7 |
| 25° | 2214.5 |
| 26° | 1905.9 |
| 27° | 1610.8 |
| 28° | 1326.3 |
| 29° | 1065.8 |
| 30° | 852.1 |
| 32.5° | 426.1 |
| 35° | 236.4 |
| 37.5° | 130.9 |
| 40° | 82.8 |
| 42.5° | 46.7 |
| 45° | 36.1 |
| 47.5° | 24.0 |
| 50° | 12.0 |
| 52.5° | 12.0 |
| 55° | 12.0 |
| 57.5° | 12.0 |
| 60° | 0.0 |
| 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)