

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: P246969

Luminaire Tested: **230-8LED3010-12-CS-DIFF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P246969
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-36)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED3010-12-CS-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 3000K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD SILVER, DIFFUSED LENS
Light Source: (1) SORAA 3000K 95 CRI 10° NSP LED
SM16-07-10D-930-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

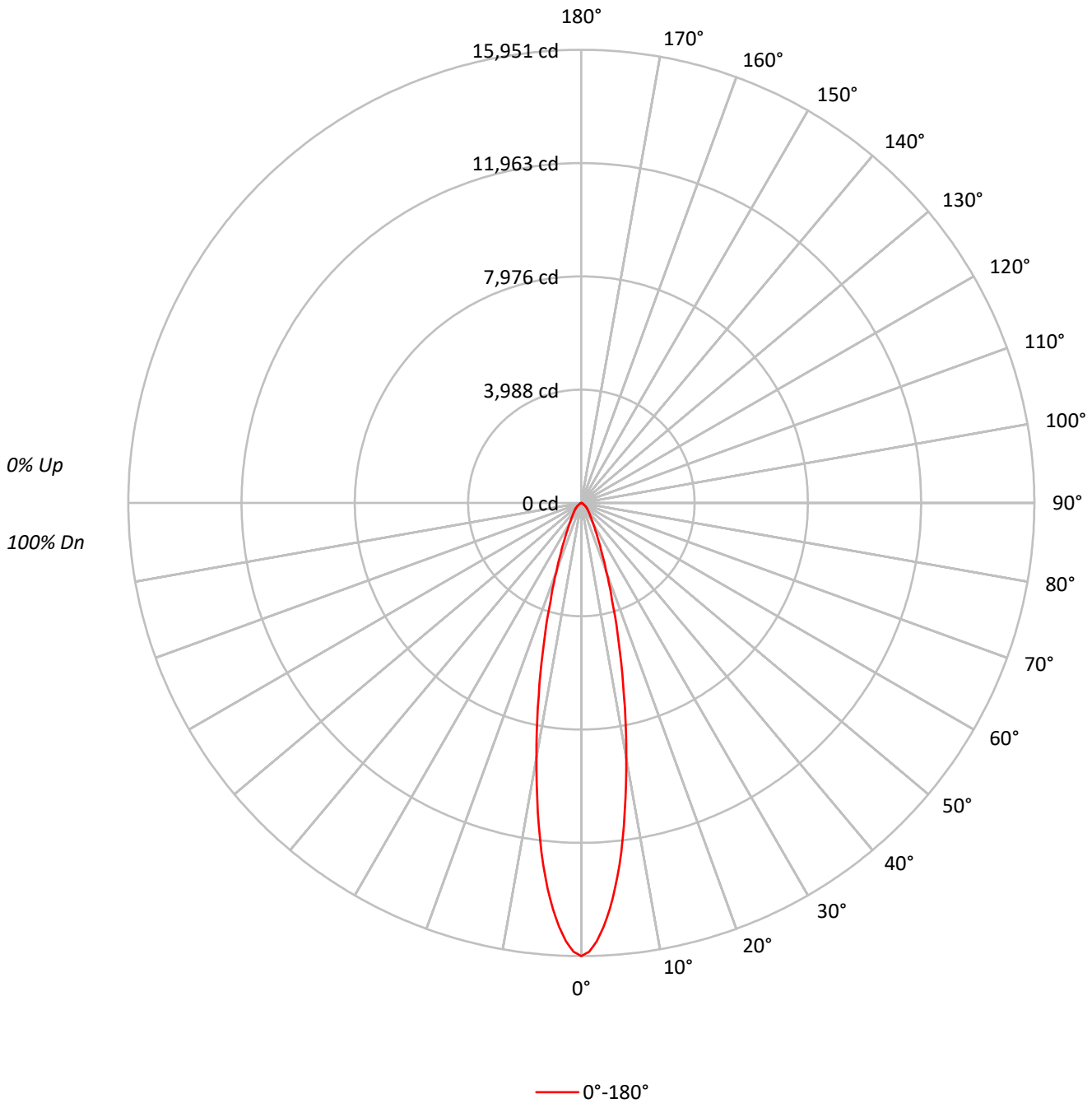
Lumens per Lamp: N/A
Luminaire Lumens: 3999.9 lumens
Efficiency: N/A
Efficacy: 533.3 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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 |
| RC | 80 | | | | | 70 | | | | | | 30 | | | | | | 10 |
| RW | 70 | 50 | 30 | 10 | | 70 | 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 | 100 |
| 1 | 114 | 112 | 109 | 107 | | 112 | 110 | 108 | 106 | | 106 | 104 | 103 | | 102 | 101 | 99 | 95 |
| 2 | 109 | 105 | 102 | 99 | | 107 | 103 | 100 | 97 | | 100 | 98 | 95 | | 97 | 95 | 93 | 90 |
| 3 | 105 | 99 | 95 | 92 | | 103 | 98 | 94 | 91 | | 95 | 92 | 89 | | 93 | 90 | 88 | 85 |
| 4 | 101 | 94 | 89 | 86 | | 99 | 93 | 89 | 85 | | 91 | 87 | 84 | | 89 | 86 | 83 | 81 |
| 5 | 97 | 90 | 85 | 81 | | 95 | 89 | 84 | 81 | | 87 | 83 | 80 | | 86 | 82 | 79 | 77 |
| 6 | 93 | 86 | 81 | 77 | | 92 | 85 | 80 | 77 | | 84 | 79 | 76 | | 82 | 79 | 76 | 74 |
| 7 | 90 | 82 | 77 | 74 | | 89 | 81 | 77 | 73 | | 80 | 76 | 73 | | 79 | 75 | 73 | 71 |
| 8 | 87 | 79 | 74 | 70 | | 86 | 78 | 74 | 70 | | 77 | 73 | 70 | | 76 | 73 | 70 | 68 |
| 9 | 84 | 76 | 71 | 68 | | 83 | 75 | 71 | 68 | | 75 | 70 | 67 | | 74 | 70 | 67 | 66 |
| 10 | 81 | 73 | 69 | 65 | | 80 | 73 | 68 | 65 | | 72 | 68 | 65 | | 71 | 68 | 65 | 64 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 7869799 |
| 5° | 6745151 |
| 10° | 4562673 |
| 15° | 2584363 |
| 20° | 1351095 |
| 25° | 746786 |
| 30° | 469551 |
| 35° | 330967 |
| 40° | 254211 |
| 45° | 203881 |
| 50° | 157427 |
| 55° | 118189 |
| 60° | 66804 |
| 65° | 40627 |
| 70° | 25100 |
| 75° | 33169 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1151.4 | 28.8 |
| 10°-20° | 1423.7 | 35.6 |
| 20°-30° | 665.5 | 16.6 |
| 30°-40° | 352.0 | 8.8 |
| 40°-50° | 228.8 | 5.7 |
| 50°-60° | 121.8 | 3.0 |
| 60°-70° | 40.5 | 1.0 |
| 70°-80° | 16.1 | 0.4 |
| 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° | 3240.7 | 81.0 |
| 0°-40° | 3592.7 | 89.8 |
| 0°-60° | 3943.4 | 98.6 |
| 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° | 15951 | |
| 5° | 13619 | ### |
| 15° | 5060 | 1424 |
| 25° | 1372 | 666 |
| 35° | 550 | 352 |
| 45° | 292 | 229 |
| 55° | 137 | 122 |
| 65° | 35 | 41 |
| 75° | 17 | 16 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 15950.8 |
| 1° | 15797.9 |
| 2° | 15436.1 |
| 3° | 14938.8 |
| 4° | 14339.0 |
| 5° | 13619.3 |
| 6° | 12829.9 |
| 7° | 11937.9 |
| 8° | 10993.7 |
| 9° | 10034.0 |
| 10° | 9107.3 |
| 12.5° | 6928.6 |
| 15° | 5059.6 |
| 17.5° | 3602.7 |
| 20° | 2573.3 |
| 22.5° | 1851.6 |
| 25° | 1371.8 |
| 27.5° | 1029.3 |
| 30° | 824.2 |
| 32.5° | 652.0 |
| 35° | 549.5 |
| 37.5° | 462.4 |
| 40° | 394.7 |
| 42.5° | 342.5 |
| 45° | 292.2 |
| 47.5° | 257.3 |
| 50° | 205.1 |
| 52.5° | 172.2 |
| 55° | 137.4 |
| 57.5° | 102.5 |
| 60° | 67.7 |
| 62.5° | 52.2 |
| 65° | 34.8 |
| 67.5° | 34.8 |
| 70° | 17.4 |
| 72.5° | 17.4 |
| 75° | 17.4 |
| 77.5° | 17.4 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)