

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: P277722

Luminaire Tested: **203-SS-8LED2710-12-BK-DIFF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277722
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-24)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-SS-8LED2710-12-BK-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD BLACK, DIFFUSED LENS
Light Source: (1) SORAA 2700K 95 CRI 10°NSP LED SM16-07-10D-927-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

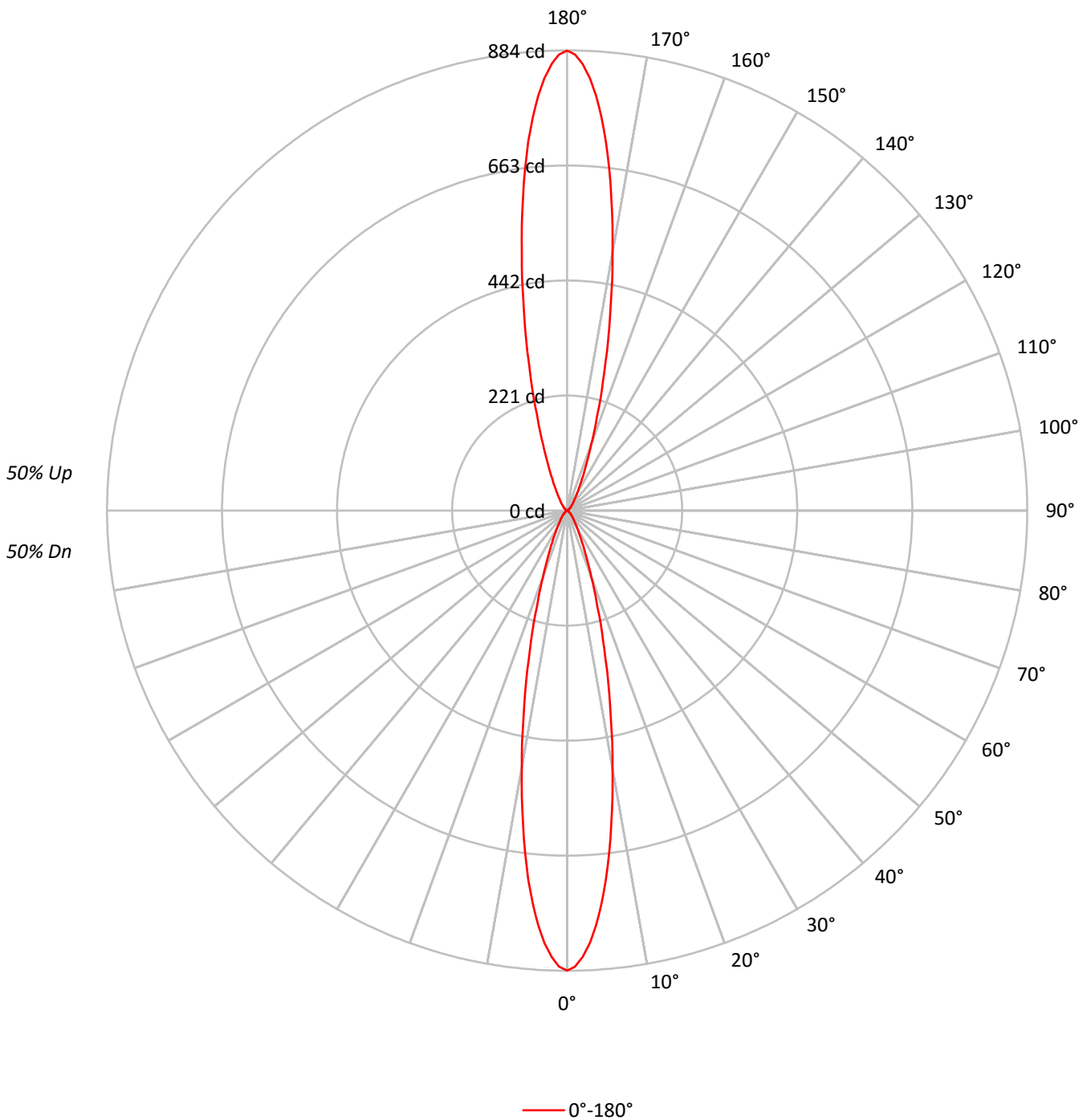
Lumens per Lamp: N/A
Luminaire Lumens: 402.3 lumens
Efficiency: N/A
Efficacy: 25.0 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 16.1
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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 | | | | |
| 1 | 101 | 98 | 95 | 92 | 93 | 90 | 88 | 86 | 77 | 76 | 74 | 65 | 64 | 63 | 54 | 54 | 53 | 48 | | | | |
| 2 | 95 | 89 | 85 | 81 | 88 | 83 | 80 | 76 | 72 | 69 | 67 | 62 | 60 | 58 | 52 | 51 | 50 | 46 | | | | |
| 3 | 89 | 82 | 77 | 73 | 83 | 77 | 73 | 69 | 67 | 64 | 62 | 58 | 56 | 54 | 50 | 49 | 48 | 44 | | | | |
| 4 | 84 | 76 | 70 | 66 | 78 | 72 | 67 | 63 | 63 | 60 | 57 | 55 | 53 | 51 | 48 | 46 | 45 | 42 | | | | |
| 5 | 79 | 71 | 65 | 60 | 74 | 67 | 62 | 58 | 60 | 56 | 53 | 53 | 50 | 48 | 46 | 45 | 43 | 40 | | | | |
| 6 | 75 | 66 | 60 | 56 | 70 | 63 | 58 | 54 | 56 | 52 | 50 | 50 | 47 | 45 | 44 | 43 | 41 | 39 | | | | |
| 7 | 71 | 62 | 56 | 52 | 67 | 59 | 54 | 50 | 53 | 50 | 47 | 48 | 45 | 43 | 43 | 41 | 40 | 38 | | | | |
| 8 | 68 | 59 | 53 | 49 | 64 | 56 | 51 | 47 | 51 | 47 | 44 | 46 | 43 | 41 | 41 | 40 | 38 | 36 | | | | |
| 9 | 65 | 56 | 50 | 46 | 61 | 53 | 48 | 45 | 49 | 45 | 42 | 44 | 41 | 39 | 40 | 38 | 37 | 35 | | | | |
| 10 | 62 | 53 | 47 | 44 | 59 | 51 | 46 | 43 | 47 | 43 | 40 | 43 | 40 | 38 | 39 | 37 | 36 | 34 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 436000 |
| 5° | 375707 |
| 10° | 251547 |
| 15° | 140363 |
| 20° | 70933 |
| 25° | 37290 |
| 30° | 21820 |
| 35° | 13733 |
| 40° | 9983 |
| 45° | 6977 |
| 50° | 4912 |
| 55° | 3183 |
| 60° | 888 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.9 | 15.9 |
| 10°-20° | 77.3 | 19.2 |
| 20°-30° | 33.6 | 8.3 |
| 30°-40° | 15.1 | 3.8 |
| 40°-50° | 7.9 | 2.0 |
| 50°-60° | 3.0 | 0.8 |
| 60°-70° | 0.3 | 0.1 |
| 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° | 0.6 | 0.1 |
| 120°-130° | 3.0 | 0.8 |
| 130°-140° | 7.9 | 2.0 |
| 140°-150° | 15.1 | 3.8 |
| 150°-160° | 33.6 | 8.3 |
| 160°-170° | 77.3 | 19.2 |
| 170°-180° | 63.9 | 15.9 |
| 0°-30° | 174.8 | 43.4 |
| 0°-40° | 189.9 | 47.2 |
| 0°-60° | 200.8 | 49.9 |
| 0°-90° | 201.2 | 50.0 |
| 90°-120° | 0.6 | 0.1 |
| 90°-150° | 26.6 | 6.6 |
| 90°-180° | 201.0 | 50.0 |
| 0°-180° | 402.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 884 | |
| 5° | 759 | 64 |
| 15° | 275 | 77 |
| 25° | 68 | 34 |
| 35° | 23 | 15 |
| 45° | 10 | 8 |
| 55° | 4 | 3 |
| 65° | 0 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 0 | 0 |
| 115° | 0 | 1 |
| 125° | 4 | 3 |
| 135° | 10 | 8 |
| 145° | 23 | 15 |
| 155° | 68 | 34 |
| 165° | 275 | 77 |
| 175° | 759 | 64 |
| 180° | 884 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 883.7 |
| 1° | 876.4 |
| 2° | 858.1 |
| 3° | 831.6 |
| 4° | 798.8 |
| 5° | 758.6 |
| 6° | 713.0 |
| 7° | 662.8 |
| 8° | 608.9 |
| 9° | 555.9 |
| 10° | 502.1 |
| 12.5° | 378.8 |
| 15° | 274.8 |
| 17.5° | 193.5 |
| 20° | 135.1 |
| 22.5° | 95.9 |
| 25° | 68.5 |
| 27.5° | 50.2 |
| 30° | 38.3 |
| 32.5° | 29.2 |
| 35° | 22.8 |
| 37.5° | 19.2 |
| 40° | 15.5 |
| 42.5° | 11.9 |
| 45° | 10.0 |
| 47.5° | 8.2 |
| 50° | 6.4 |
| 52.5° | 4.6 |
| 55° | 3.7 |
| 57.5° | 1.8 |
| 60° | 0.9 |
| 62.5° | 0.9 |
| 65° | 0.0 |
| 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 |
| 92.5° | 0.0 |
| 95° | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 97.5° | 0.0 |
| 100° | 0.0 |
| 102.5° | 0.0 |
| 105° | 0.0 |
| 107.5° | 0.0 |
| 110° | 0.0 |
| 112.5° | 0.0 |
| 115° | 0.0 |
| 117.5° | 0.9 |
| 120° | 0.9 |
| 122.5° | 1.8 |
| 125° | 3.7 |
| 127.5° | 4.6 |
| 130° | 6.4 |
| 132.5° | 8.2 |
| 135° | 10.0 |
| 137.5° | 11.9 |
| 140° | 15.5 |
| 142.5° | 19.2 |
| 145° | 22.8 |
| 147.5° | 29.2 |
| 150° | 38.3 |
| 152.5° | 50.2 |
| 155° | 68.5 |
| 157.5° | 95.9 |
| 160° | 135.1 |
| 162.5° | 193.5 |
| 165° | 274.8 |
| 167.5° | 378.8 |
| 170° | 502.1 |
| 171° | 555.9 |
| 172° | 608.9 |
| 173° | 662.8 |
| 174° | 713.0 |
| 175° | 758.6 |
| 176° | 798.8 |
| 177° | 831.6 |
| 178° | 858.1 |
| 179° | 876.4 |
| 180° | 883.7 |

(END OF REPORT)