

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: P220648

Luminaire Tested: **1003-[A1, S1, SU1]-FL-LED3597-S-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29476)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 1003-[A1, S1, SU1]-FL-LED3597-S-BK-L1-UNV  
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 738.0 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

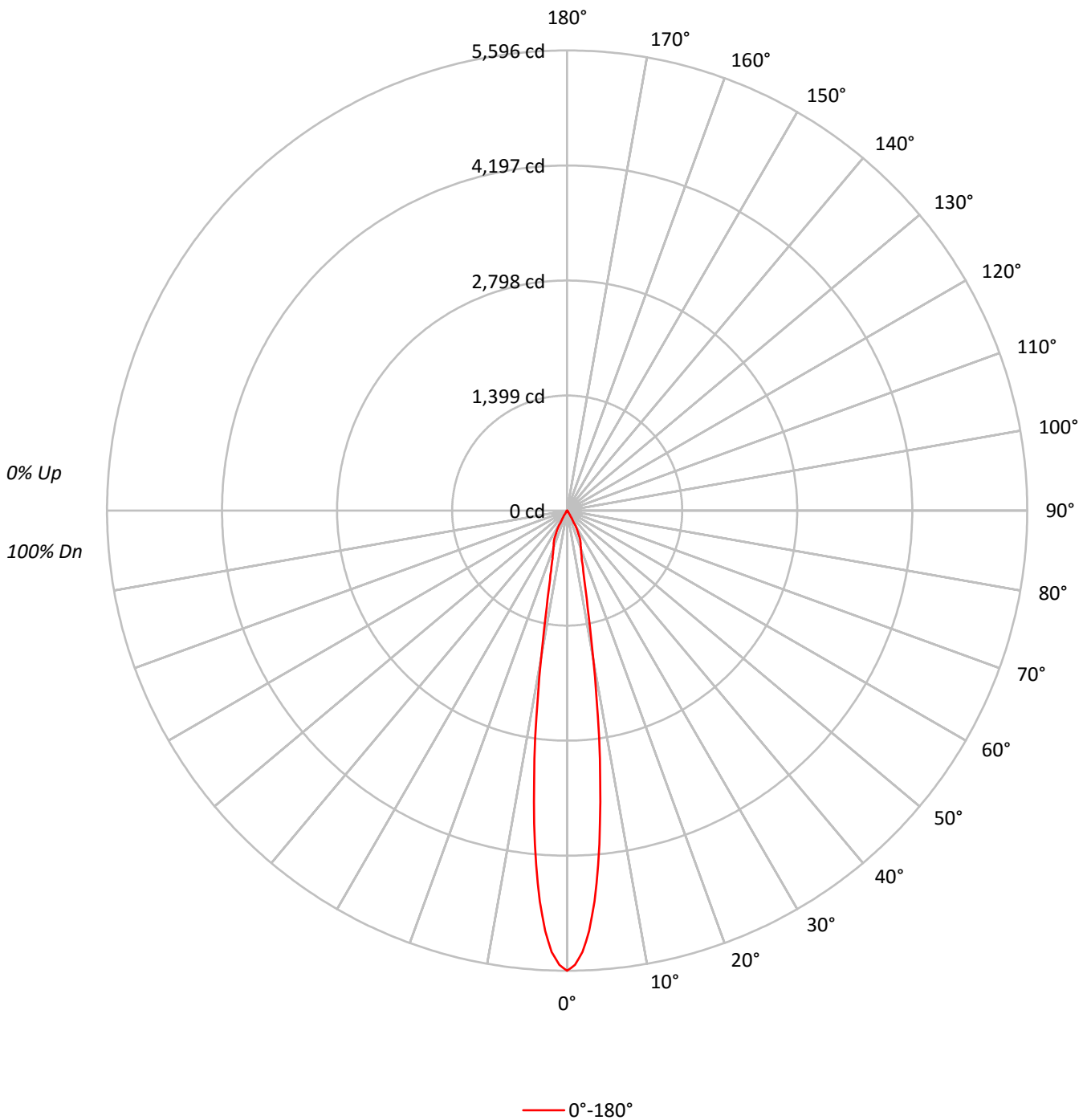
Input Watts (W): 9.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 110 | 113 | 111 | 109 | 108 | 107 | 106 | 105 |  | 103 | 102 | 101 |  | 100 | 99  | 99  | 97  |
| 2   | 111 | 108 | 105 | 103 | 109 | 106 | 104 | 101 | 103 | 101 | 99  |  | 100 | 99  | 97  |  | 98  | 96  | 95  | 94  |
| 3   | 108 | 104 | 100 | 97  | 106 | 102 | 99  | 97  | 100 | 97  | 95  |  | 98  | 95  | 94  |  | 95  | 94  | 92  | 91  |
| 4   | 105 | 100 | 96  | 93  | 103 | 99  | 95  | 92  | 97  | 94  | 91  |  | 95  | 92  | 90  |  | 93  | 91  | 89  | 88  |
| 5   | 102 | 96  | 92  | 89  | 101 | 95  | 92  | 89  | 94  | 91  | 88  |  | 92  | 90  | 88  |  | 91  | 89  | 87  | 86  |
| 6   | 99  | 93  | 89  | 86  | 98  | 93  | 89  | 86  | 91  | 88  | 86  |  | 90  | 87  | 85  |  | 89  | 86  | 85  | 83  |
| 7   | 97  | 90  | 86  | 84  | 96  | 90  | 86  | 83  | 89  | 85  | 83  |  | 88  | 85  | 83  |  | 87  | 84  | 82  | 81  |
| 8   | 94  | 88  | 84  | 81  | 93  | 87  | 84  | 81  | 87  | 83  | 81  |  | 86  | 83  | 81  |  | 85  | 82  | 80  | 79  |
| 9   | 92  | 86  | 82  | 79  | 91  | 85  | 82  | 79  | 84  | 81  | 79  |  | 84  | 81  | 79  |  | 83  | 80  | 78  | 77  |
| 10  | 90  | 83  | 80  | 77  | 89  | 83  | 79  | 77  | 82  | 79  | 77  |  | 82  | 79  | 77  |  | 81  | 78  | 77  | 76  |

**AVERAGE LUMINANCE (cd/sqm):**

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1227051 |
| 5°  | 952694  |
| 10° | 406984  |
| 15° | 172078  |
| 20° | 114087  |
| 25° | 85505   |
| 30° | 32765   |
| 35° | 5006    |
| 40° | 2748    |
| 45° | 1209    |
| 50° | 887     |
| 55° | 841     |
| 60° | 965     |
| 65° | 882     |
| 70° | 833     |
| 75° | 763     |
| 80° | 505     |
| 85° | 1006    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 327.1  | 44.3      |
| 10°-20°   | 231.8  | 31.4      |
| 20°-30°   | 149.4  | 20.2      |
| 30°-40°   | 21.5   | 2.9       |
| 40°-50°   | 3.4    | 0.5       |
| 50°-60°   | 2.1    | 0.3       |
| 60°-70°   | 1.6    | 0.2       |
| 70°-80°   | 0.8    | 0.1       |
| 80°-90°   | 0.3    | 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°    | 708.3  | 96.0      |
| 0°-40°    | 729.8  | 98.9      |
| 0°-60°    | 735.3  | 99.6      |
| 0°-90°    | 738.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 738.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5596 |      |
| 5°  | 4328 | 327  |
| 15° | 758  | 232  |
| 25° | 353  | 149  |
| 35° | 19   | 22   |
| 45° | 4    | 3    |
| 55° | 2    | 2    |
| 65° | 2    | 2    |
| 75° | 1    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 5595.8 |
| 1°    | 5525.9 |
| 2°    | 5371.3 |
| 3°    | 5117.4 |
| 4°    | 4764.0 |
| 5°    | 4328.1 |
| 6°    | 3827.1 |
| 7°    | 3303.9 |
| 8°    | 2786.4 |
| 9°    | 2275.0 |
| 10°   | 1827.8 |
| 11°   | 1462.7 |
| 12°   | 1199.6 |
| 13°   | 1007.2 |
| 14°   | 864.4  |
| 15°   | 758.0  |
| 16°   | 670.3  |
| 17°   | 606.5  |
| 18°   | 560.9  |
| 19°   | 521.0  |
| 20°   | 488.9  |
| 21°   | 461.1  |
| 22°   | 436.8  |
| 23°   | 414.2  |
| 24°   | 388.1  |
| 25°   | 353.4  |
| 26°   | 312.6  |
| 27°   | 268.7  |
| 28°   | 221.0  |
| 29°   | 173.7  |
| 30°   | 129.4  |
| 32.5° | 43.0   |
| 35°   | 18.7   |
| 37.5° | 13.5   |
| 40°   | 9.6    |
| 42.5° | 4.8    |
| 45°   | 3.9    |
| 47.5° | 3.0    |
| 50°   | 2.6    |
| 52.5° | 2.6    |
| 55°   | 2.2    |
| 57.5° | 2.2    |
| 60°   | 2.2    |
| 62.5° | 1.7    |
| 65°   | 1.7    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 1.3 |
| 70°   | 1.3 |
| 72.5° | 0.9 |
| 75°   | 0.9 |
| 77.5° | 0.4 |
| 80°   | 0.4 |
| 82.5° | 0.4 |
| 85°   | 0.4 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)