

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: P220463

Luminaire Tested: **1003-[A1, S1, SU1]-[RW, RI]-LED2797-M-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29469)  
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]-[RW, RI]-LED2797-M-WT-L2-UNV  
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 2700K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1209.3 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.41  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

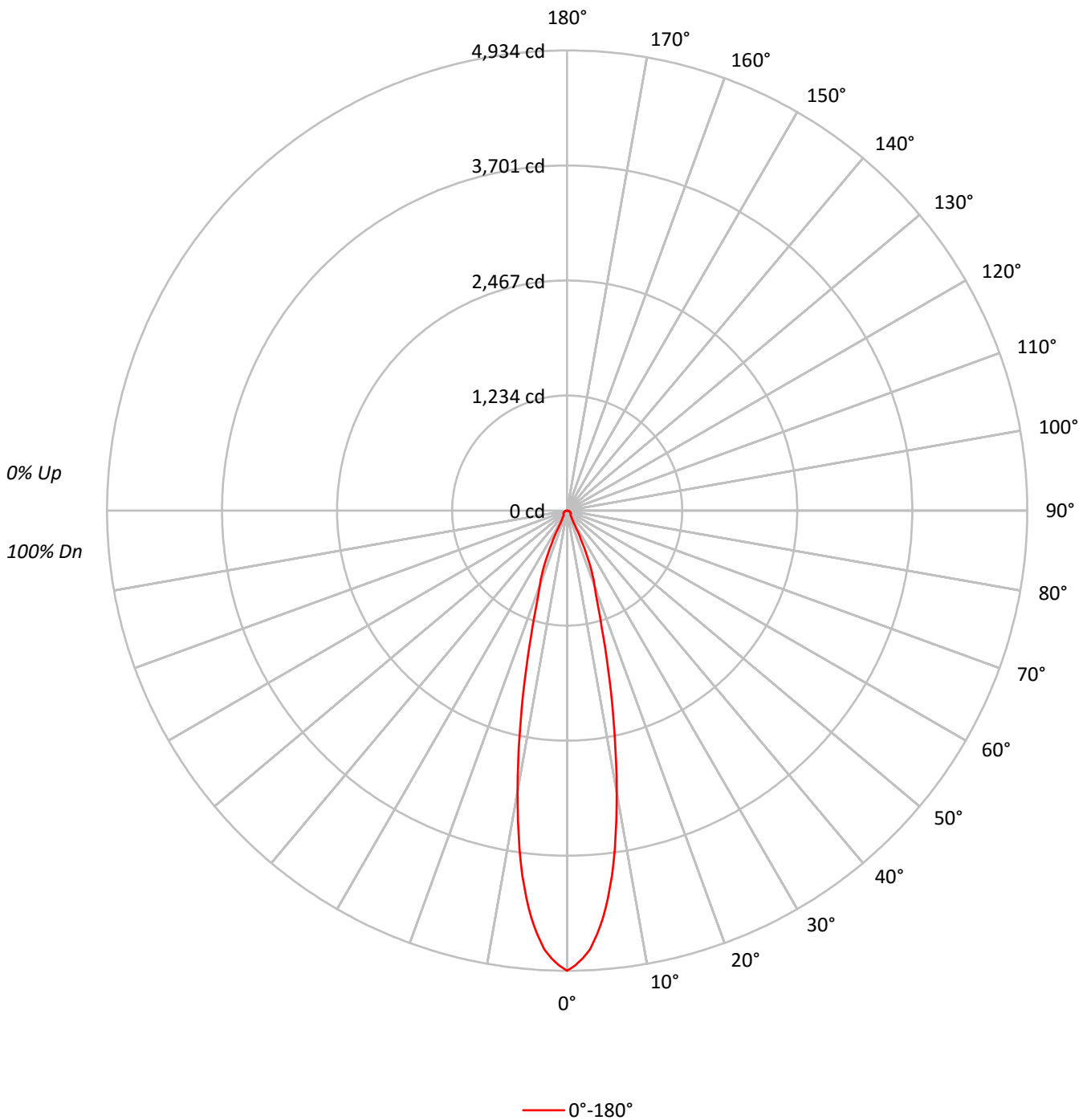
Input Watts (W): 20.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2   | 109 | 104 | 101 | 98  | 107 | 103 | 99  | 97  | 100 | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 91  | 89  |
| 3   | 105 | 99  | 94  | 91  | 103 | 97  | 93  | 90  | 95  | 91  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  | 89  | 86  | 83  | 87  | 84  | 82  | 81  |
| 5   | 97  | 90  | 85  | 81  | 95  | 89  | 84  | 81  | 87  | 83  | 80  | 86  | 82  | 79  | 84  | 81  | 79  | 77  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  | 84  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 76  | 74  |
| 7   | 90  | 83  | 78  | 74  | 89  | 82  | 77  | 74  | 81  | 77  | 74  | 80  | 76  | 73  | 79  | 76  | 73  | 72  |
| 8   | 88  | 80  | 75  | 72  | 86  | 79  | 75  | 71  | 78  | 74  | 71  | 77  | 74  | 71  | 76  | 73  | 71  | 70  |
| 9   | 85  | 77  | 72  | 69  | 84  | 77  | 72  | 69  | 76  | 72  | 69  | 75  | 71  | 69  | 74  | 71  | 68  | 67  |
| 10  | 82  | 75  | 70  | 67  | 82  | 74  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 67  | 72  | 69  | 66  | 65  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1081909 |
| 5°  | 966605  |
| 10° | 681484  |
| 15° | 370331  |
| 20° | 200381  |
| 25° | 95594   |
| 30° | 27625   |
| 35° | 17962   |
| 40° | 16402   |
| 45° | 16901   |
| 50° | 17876   |
| 55° | 18962   |
| 60° | 18727   |
| 65° | 17797   |
| 70° | 14810   |
| 75° | 13047   |
| 80° | 15027   |
| 85° | 14089   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 376.0  | 31.1      |
| 10°-20°   | 460.4  | 38.1      |
| 20°-30°   | 184.2  | 15.2      |
| 30°-40°   | 46.1   | 3.8       |
| 40°-50°   | 42.4   | 3.5       |
| 50°-60°   | 43.7   | 3.6       |
| 60°-70°   | 33.2   | 2.7       |
| 70°-80°   | 17.2   | 1.4       |
| 80°-90°   | 6.2    | 0.5       |
| 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°    | 1020.6 | 84.4      |
| 0°-40°    | 1066.7 | 88.2      |
| 0°-60°    | 1152.7 | 95.3      |
| 0°-90°    | 1209.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1209.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4934 |      |
| 5°  | 4391 | 376  |
| 15° | 1631 | 460  |
| 25° | 395  | 184  |
| 35° | 67   | 46   |
| 45° | 54   | 42   |
| 55° | 50   | 44   |
| 65° | 34   | 33   |
| 75° | 15   | 17   |
| 85° | 6    | 6    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 4933.9 |
| 1°    | 4879.4 |
| 2°    | 4805.9 |
| 3°    | 4710.1 |
| 4°    | 4560.5 |
| 5°    | 4391.3 |
| 6°    | 4179.4 |
| 7°    | 3944.5 |
| 8°    | 3667.6 |
| 9°    | 3365.5 |
| 10°   | 3060.6 |
| 11°   | 2750.1 |
| 12°   | 2444.6 |
| 13°   | 2159.3 |
| 14°   | 1883.8 |
| 15°   | 1631.3 |
| 16°   | 1402.7 |
| 17°   | 1216.7 |
| 18°   | 1065.0 |
| 19°   | 946.8  |
| 20°   | 858.7  |
| 21°   | 784.6  |
| 22°   | 699.9  |
| 23°   | 602.8  |
| 24°   | 497.9  |
| 25°   | 395.1  |
| 26°   | 295.8  |
| 27°   | 211.2  |
| 28°   | 148.9  |
| 29°   | 120.3  |
| 30°   | 109.1  |
| 32.5° | 87.4   |
| 35°   | 67.1   |
| 37.5° | 60.1   |
| 40°   | 57.3   |
| 42.5° | 55.9   |
| 45°   | 54.5   |
| 47.5° | 53.8   |
| 50°   | 52.4   |
| 52.5° | 51.7   |
| 55°   | 49.6   |
| 57.5° | 46.2   |
| 60°   | 42.7   |
| 62.5° | 39.2   |
| 65°   | 34.3   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   |
|-------|------|
| 67.5° | 28.0 |
| 70°   | 23.1 |
| 72.5° | 18.2 |
| 75°   | 15.4 |
| 77.5° | 14.0 |
| 80°   | 11.9 |
| 82.5° | 8.4  |
| 85°   | 5.6  |
| 87.5° | 2.8  |
| 90°   | 0.0  |

(END OF REPORT)