

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: P29490

Luminaire Tested: **9004-W1-[RW, RI]-LED4080-W-WT-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P29490  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W1-[RW, RI]-LED4080-W-WT-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2597.7 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

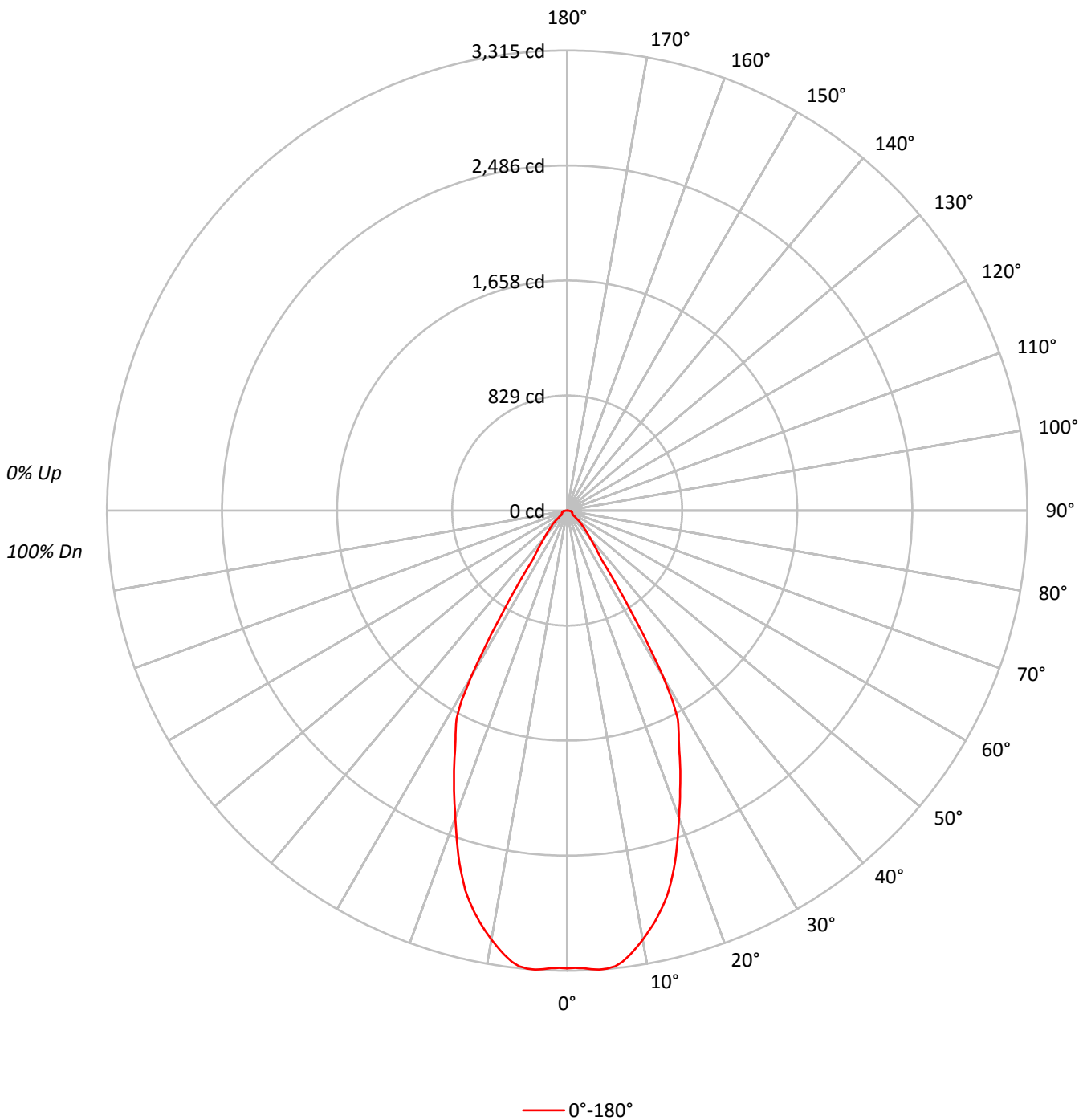
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 96  | 94  | 93  |
| 2   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 91  | 94  | 92  | 90  | 92  | 89  | 88  | 86  |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 86  | 91  | 87  | 84  | 89  | 86  | 83  | 87  | 84  | 82  | 80  |
| 4   | 97  | 89  | 84  | 79  | 95  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 75  |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 77  | 73  | 81  | 76  | 73  | 79  | 75  | 72  | 78  | 74  | 71  | 70  |
| 6   | 88  | 79  | 73  | 69  | 86  | 78  | 73  | 68  | 77  | 72  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 66  |
| 7   | 84  | 75  | 69  | 64  | 82  | 74  | 68  | 64  | 73  | 68  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 62  |
| 8   | 80  | 70  | 65  | 61  | 79  | 70  | 64  | 60  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 58  |
| 9   | 76  | 67  | 61  | 57  | 75  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 64  | 59  | 56  | 55  |
| 10  | 73  | 63  | 58  | 54  | 72  | 63  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 61  | 56  | 53  | 52  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 406917 |
| 5°  | 410205 |
| 10° | 393030 |
| 15° | 361637 |
| 20° | 309121 |
| 25° | 260217 |
| 30° | 196692 |
| 35° | 65351  |
| 40° | 41542  |
| 45° | 28259  |
| 50° | 16503  |
| 55° | 9892   |
| 60° | 10854  |
| 65° | 11966  |
| 70° | 13704  |
| 75° | 16680  |
| 80° | 19889  |
| 85° | 19813  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 310.6  | 12.0      |
| 10°-20°   | 781.1  | 30.1      |
| 20°-30°   | 874.9  | 33.7      |
| 30°-40°   | 365.9  | 14.1      |
| 40°-50°   | 127.1  | 4.9       |
| 50°-60°   | 46.2   | 1.8       |
| 60°-70°   | 40.7   | 1.6       |
| 70°-80°   | 36.2   | 1.4       |
| 80°-90°   | 15.2   | 0.6       |
| 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°    | 1966.5 | 75.7      |
| 0°-40°    | 2332.4 | 89.8      |
| 0°-60°    | 2505.6 | 96.5      |
| 0°-90°    | 2597.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2597.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3299 |      |
| 5°  | 3313 | 311  |
| 15° | 2832 | 781  |
| 25° | 1912 | 875  |
| 35° | 434  | 366  |
| 45° | 162  | 127  |
| 55° | 46   | 46   |
| 65° | 41   | 41   |
| 75° | 35   | 36   |
| 85° | 14   | 15   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |      |
|-------|------|
| 0°    | 3299 |
| 1°    | 3296 |
| 2°    | 3299 |
| 3°    | 3309 |
| 4°    | 3315 |
| 5°    | 3313 |
| 6°    | 3301 |
| 7°    | 3275 |
| 8°    | 3234 |
| 9°    | 3188 |
| 10°   | 3138 |
| 11°   | 3085 |
| 12°   | 3031 |
| 13°   | 2970 |
| 14°   | 2905 |
| 15°   | 2832 |
| 16°   | 2745 |
| 17°   | 2654 |
| 18°   | 2556 |
| 19°   | 2454 |
| 20°   | 2355 |
| 21°   | 2263 |
| 22°   | 2174 |
| 23°   | 2086 |
| 24°   | 2000 |
| 25°   | 1912 |
| 26°   | 1835 |
| 27°   | 1767 |
| 28°   | 1697 |
| 29°   | 1569 |
| 30°   | 1381 |
| 32.5° | 828  |
| 35°   | 434  |
| 37.5° | 332  |
| 40°   | 258  |
| 42.5° | 201  |
| 45°   | 162  |
| 47.5° | 130  |
| 50°   | 86   |
| 52.5° | 51   |
| 55°   | 46   |
| 57.5° | 45   |
| 60°   | 44   |
| 62.5° | 43   |
| 65°   | 41   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0° |
|-------|----|
| 67.5° | 39 |
| 70°   | 38 |
| 72.5° | 37 |
| 75°   | 35 |
| 77.5° | 32 |
| 80°   | 28 |
| 82.5° | 22 |
| 85°   | 14 |
| 87.5° | 6  |
| 90°   | 0  |

(END OF REPORT)