

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: P29472

Luminaire Tested: **9003-W1-[RW, RI]-LED4080-S-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P29472  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9003-W1-[RW, RI]-LED4080-S-BK-L2-UNV  
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC,  
BLACK HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1518.3 lumens  
Efficiency: N/A  
Efficacy: 75.5 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

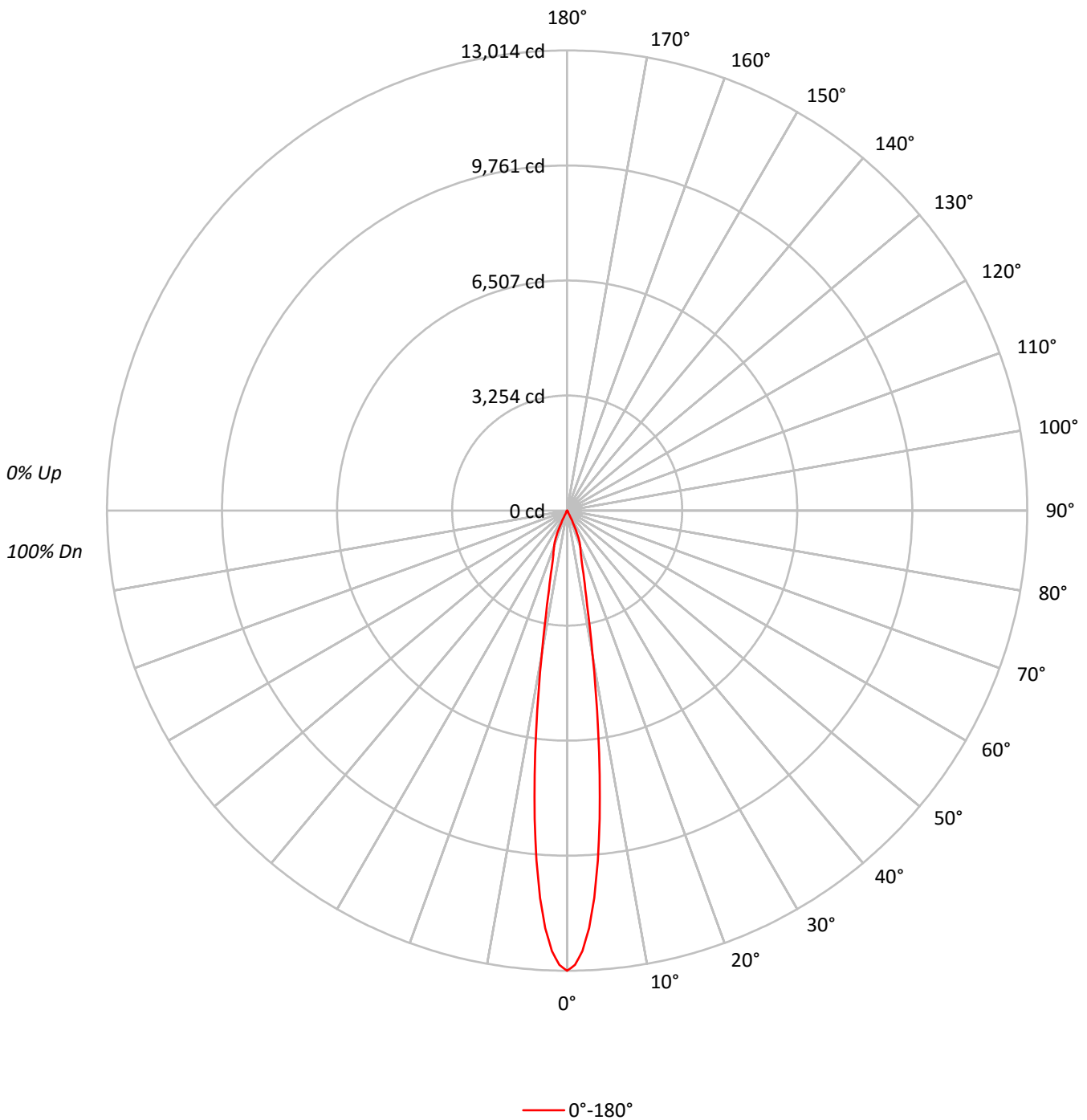
Input Watts (W): 20.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 115 | 113 | 112 | 110 | 113 | 111 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 102 | 100 | 100 | 99  | 97  |
| 2   | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 104 | 102 | 100 | 101 | 100 | 98  | 99  | 97  | 96  | 95  |
| 3   | 109 | 105 | 101 | 99  | 107 | 103 | 100 | 98  | 101 | 98  | 96  | 99  | 97  | 95  | 97  | 95  | 94  | 92  |
| 4   | 106 | 101 | 98  | 95  | 105 | 100 | 97  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 91  | 90  |
| 5   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  | 94  | 92  | 90  | 93  | 91  | 89  | 88  |
| 6   | 101 | 95  | 92  | 89  | 100 | 95  | 91  | 89  | 93  | 90  | 88  | 92  | 90  | 88  | 91  | 89  | 87  | 86  |
| 7   | 99  | 93  | 89  | 87  | 98  | 92  | 89  | 86  | 91  | 88  | 86  | 90  | 88  | 86  | 89  | 87  | 85  | 84  |
| 8   | 96  | 91  | 87  | 84  | 95  | 90  | 87  | 84  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 85  | 83  | 82  |
| 9   | 94  | 88  | 85  | 82  | 94  | 88  | 85  | 82  | 87  | 84  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 81  |
| 10  | 92  | 87  | 83  | 81  | 92  | 86  | 83  | 81  | 86  | 83  | 80  | 85  | 82  | 80  | 84  | 82  | 80  | 79  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 2853719 |
| 5°  | 2186215 |
| 10° | 917151  |
| 15° | 387062  |
| 20° | 251789  |
| 25° | 110329  |
| 30° | 14939   |
| 35° | 5622    |
| 40° | 4008    |
| 45° | 3101    |
| 50° | 2729    |
| 55° | 2676    |
| 60° | 2193    |
| 65° | 1557    |
| 70° | 641     |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 747.7  | 49.2      |
| 10°-20°   | 521.3  | 34.3      |
| 20°-30°   | 214.9  | 14.2      |
| 30°-40°   | 17.0   | 1.1       |
| 40°-50°   | 8.1    | 0.5       |
| 50°-60°   | 5.9    | 0.4       |
| 60°-70°   | 3.0    | 0.2       |
| 70°-80°   | 0.4    | 0.0       |
| 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°    | 1484.0 | 97.7      |
| 0°-40°    | 1500.9 | 98.9      |
| 0°-60°    | 1514.9 | 99.8      |
| 0°-90°    | 1518.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1518.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 13014 |      |
| 5°  | 9932  | 748  |
| 15° | 1705  | 521  |
| 25° | 456   | 215  |
| 35° | 21    | 17   |
| 45° | 10    | 8    |
| 55° | 7     | 6    |
| 65° | 3     | 3    |
| 75° | 0     | 0    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 13014 |
| 1°    | 12848 |
| 2°    | 12459 |
| 3°    | 11826 |
| 4°    | 10981 |
| 5°    | 9932  |
| 6°    | 8765  |
| 7°    | 7542  |
| 8°    | 6284  |
| 9°    | 5131  |
| 10°   | 4119  |
| 11°   | 3318  |
| 12°   | 2725  |
| 13°   | 2288  |
| 14°   | 1969  |
| 15°   | 1705  |
| 16°   | 1492  |
| 17°   | 1353  |
| 18°   | 1246  |
| 19°   | 1152  |
| 20°   | 1079  |
| 21°   | 1012  |
| 22°   | 910   |
| 23°   | 771   |
| 24°   | 613   |
| 25°   | 456   |
| 26°   | 317   |
| 27°   | 190   |
| 28°   | 106   |
| 29°   | 71    |
| 30°   | 59    |
| 32.5° | 38    |
| 35°   | 21    |
| 37.5° | 16    |
| 40°   | 14    |
| 42.5° | 12    |
| 45°   | 10    |
| 47.5° | 9     |
| 50°   | 8     |
| 52.5° | 7     |
| 55°   | 7     |
| 57.5° | 6     |
| 60°   | 5     |
| 62.5° | 4     |
| 65°   | 3     |



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**CANDELA DISTRIBUTION (continued):**

|       | 0° |
|-------|----|
| 67.5° | 2  |
| 70°   | 1  |
| 72.5° | 1  |
| 75°   | 0  |
| 77.5° | 0  |
| 80°   | 0  |
| 82.5° | 0  |
| 85°   | 0  |
| 87.5° | 0  |
| 90°   | 0  |

(END OF REPORT)