

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: P220823

Luminaire Tested: **9004-W1-[RW, RI]-LED3090-S-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)  
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]-LED3090-S-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1528.9 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

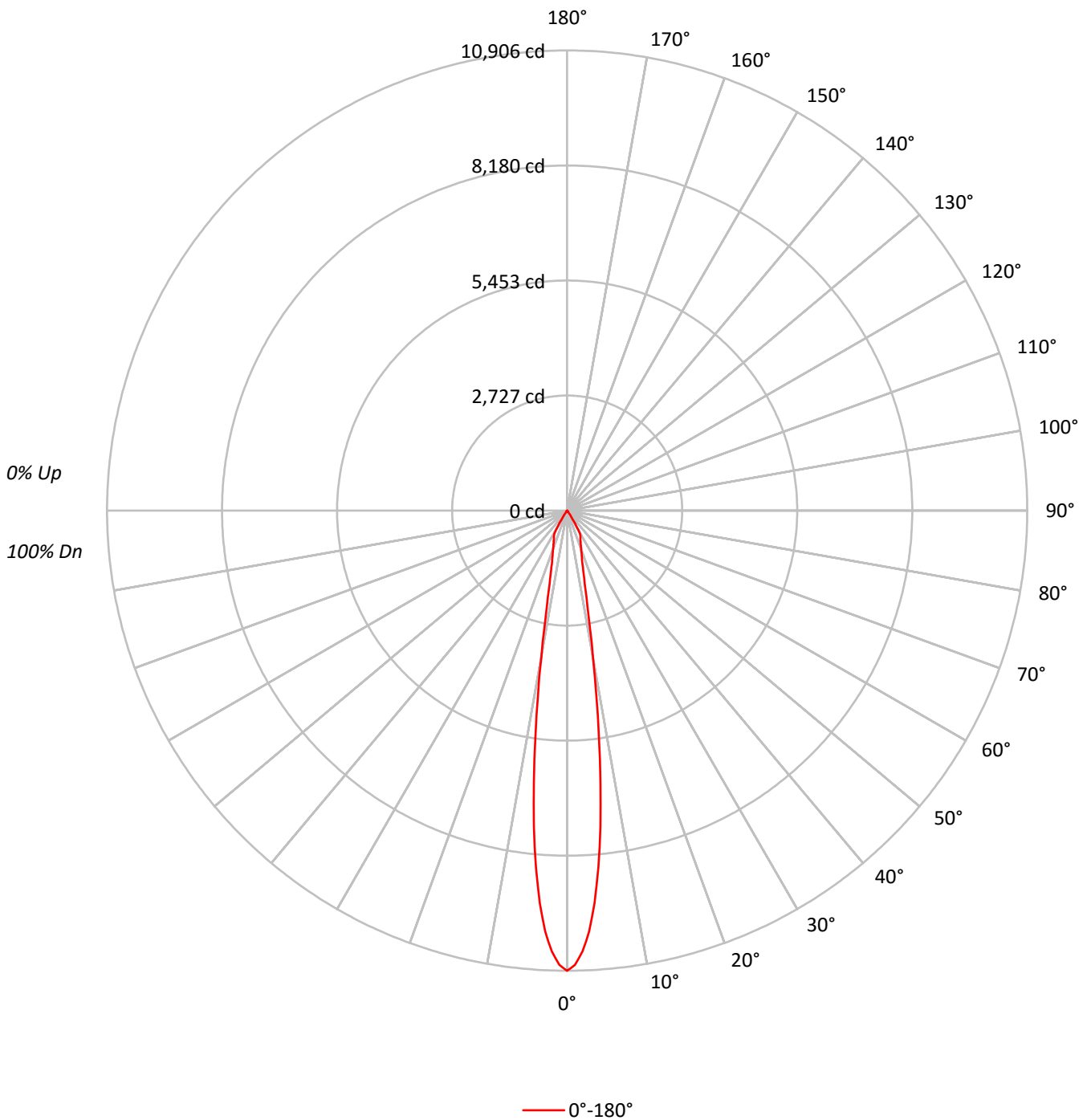
Input Watts (W): 20.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  |
| 2   | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99  | 100 | 98  | 97  | 97  | 96  | 95  | 93  |
| 3   | 108 | 103 | 99  | 97  | 106 | 102 | 98  | 96  | 99  | 97  | 94  | 97  | 95  | 93  | 95  | 93  | 92  | 90  |
| 4   | 104 | 99  | 95  | 92  | 103 | 98  | 94  | 92  | 96  | 93  | 91  | 94  | 92  | 90  | 92  | 90  | 89  | 87  |
| 5   | 101 | 95  | 91  | 88  | 100 | 95  | 91  | 88  | 93  | 90  | 87  | 91  | 89  | 86  | 90  | 88  | 86  | 85  |
| 6   | 98  | 92  | 88  | 85  | 97  | 91  | 88  | 85  | 90  | 87  | 84  | 89  | 86  | 84  | 88  | 85  | 83  | 82  |
| 7   | 96  | 89  | 85  | 82  | 95  | 89  | 85  | 82  | 87  | 84  | 82  | 86  | 83  | 81  | 86  | 83  | 81  | 80  |
| 8   | 93  | 86  | 82  | 80  | 92  | 86  | 82  | 79  | 85  | 82  | 79  | 84  | 81  | 79  | 83  | 81  | 78  | 78  |
| 9   | 91  | 84  | 80  | 77  | 90  | 84  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 77  | 81  | 78  | 76  | 75  |
| 10  | 88  | 82  | 78  | 75  | 88  | 81  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 75  | 79  | 77  | 74  | 74  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1345244 |
| 5°  | 1051019 |
| 10° | 442703  |
| 15° | 187612  |
| 20° | 127022  |
| 25° | 100861  |
| 30° | 74660   |
| 35° | 6776    |
| 40° | 2480    |
| 45° | 750     |
| 50° | 595     |
| 55° | 667     |
| 60° | 444     |
| 65° | 350     |
| 70° | 216     |
| 75° | 286     |
| 80° | 426     |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 639.0  | 41.8      |
| 10°-20°   | 451.5  | 29.5      |
| 20°-30°   | 344.8  | 22.5      |
| 30°-40°   | 84.5   | 5.5       |
| 40°-50°   | 4.6    | 0.3       |
| 50°-60°   | 2.5    | 0.2       |
| 60°-70°   | 1.2    | 0.1       |
| 70°-80°   | 0.6    | 0.0       |
| 80°-90°   | 0.2    | 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°    | 1435.2 | 93.9      |
| 0°-40°    | 1519.8 | 99.4      |
| 0°-60°    | 1526.8 | 99.9      |
| 0°-90°    | 1528.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1528.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 10906 |      |
| 5°  | 8488  | 639  |
| 15° | 1469  | 452  |
| 25° | 741   | 345  |
| 35° | 45    | 85   |
| 45° | 4     | 5    |
| 55° | 3     | 2    |
| 65° | 1     | 1    |
| 75° | 1     | 1    |
| 85° | 0     | 0    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 10906.3 |
| 1°    | 10766.5 |
| 2°    | 10458.5 |
| 3°    | 9986.0  |
| 4°    | 9324.4  |
| 5°    | 8488.5  |
| 6°    | 7527.6  |
| 7°    | 6471.7  |
| 8°    | 5408.5  |
| 9°    | 4435.2  |
| 10°   | 3534.6  |
| 11°   | 2821.3  |
| 12°   | 2298.9  |
| 13°   | 1929.3  |
| 14°   | 1666.3  |
| 15°   | 1469.2  |
| 16°   | 1317.6  |
| 17°   | 1207.4  |
| 18°   | 1119.9  |
| 19°   | 1038.0  |
| 20°   | 967.7   |
| 22.5° | 834.7   |
| 25°   | 741.1   |
| 26°   | 715.8   |
| 27°   | 694.9   |
| 28°   | 673.9   |
| 29°   | 618.5   |
| 30°   | 524.2   |
| 32.5° | 235.9   |
| 35°   | 45.0    |
| 37.5° | 24.6    |
| 40°   | 15.4    |
| 42.5° | 6.8     |
| 45°   | 4.3     |
| 47.5° | 3.7     |
| 50°   | 3.1     |
| 52.5° | 3.1     |
| 55°   | 3.1     |
| 57.5° | 2.5     |
| 60°   | 1.8     |
| 62.5° | 1.8     |
| 65°   | 1.2     |
| 67.5° | 0.6     |
| 70°   | 0.6     |
| 72.5° | 0.6     |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 75°   | 0.6 |
| 77.5° | 0.6 |
| 80°   | 0.6 |
| 82.5° | 0.6 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)