

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: P222022

Luminaire Tested: **9004-W2-FL-LED3090-S-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED3090-S-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,  
BLACK HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

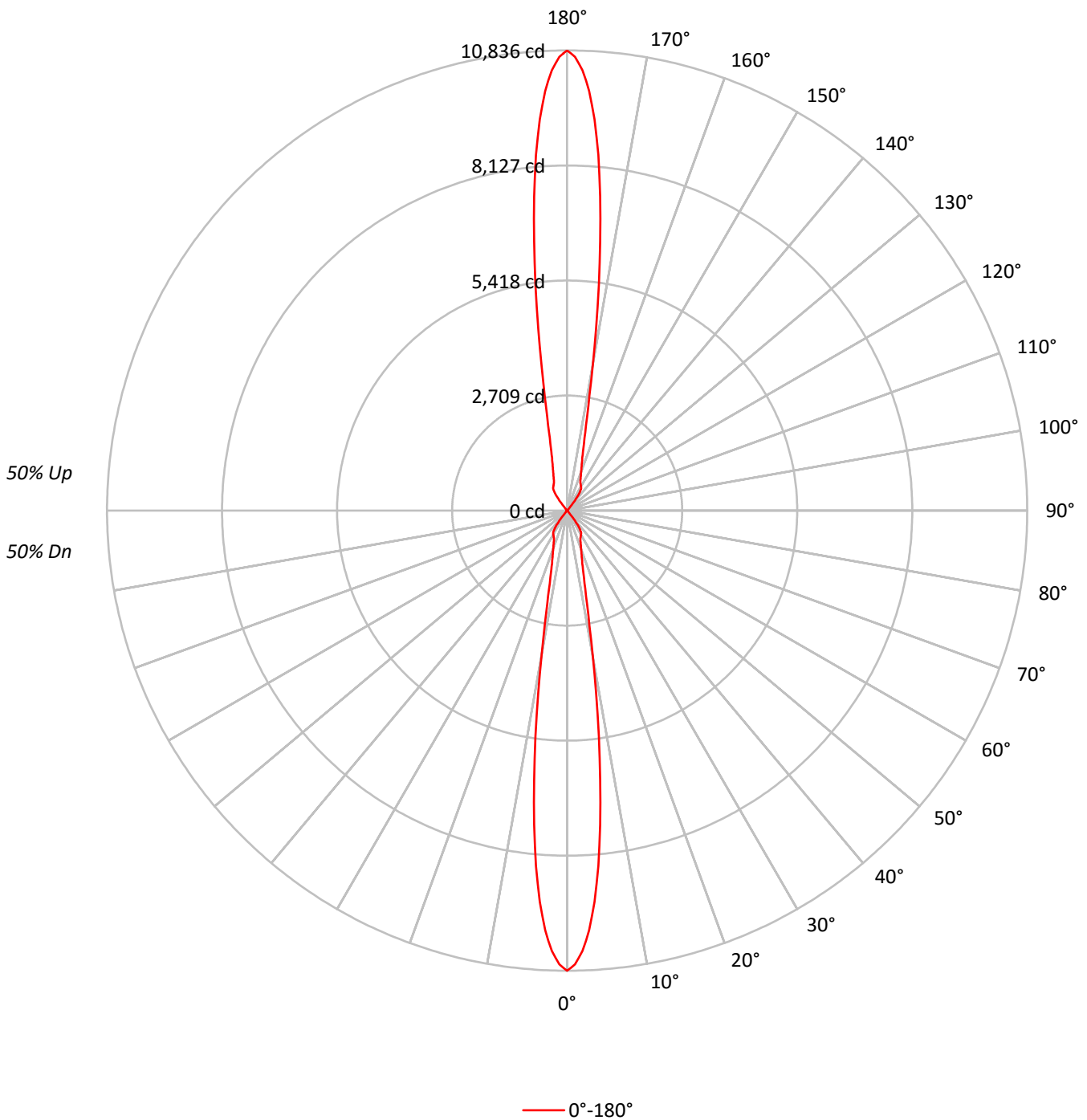
Lumens per Lamp: N/A  
Luminaire Lumens: 3451.2 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 40.2  
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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |    |    |    |   |
| 1   | 101 | 97  | 95  | 92  | 93 | 90 | 88 | 86 | 77 | 76 | 74 | 65 | 64 | 63 | 54 | 54 | 53 | 48 |    |    |    |   |
| 2   | 95  | 89  | 85  | 81  | 88 | 83 | 80 | 76 | 72 | 69 | 67 | 62 | 60 | 58 | 52 | 51 | 50 | 46 |    |    |    |   |
| 3   | 89  | 82  | 77  | 73  | 83 | 77 | 72 | 69 | 67 | 64 | 62 | 58 | 56 | 54 | 50 | 49 | 48 | 44 |    |    |    |   |
| 4   | 84  | 76  | 70  | 66  | 78 | 72 | 67 | 63 | 63 | 60 | 57 | 55 | 53 | 51 | 48 | 46 | 45 | 42 |    |    |    |   |
| 5   | 79  | 71  | 65  | 60  | 74 | 67 | 62 | 58 | 59 | 56 | 53 | 53 | 50 | 48 | 46 | 44 | 43 | 40 |    |    |    |   |
| 6   | 75  | 66  | 60  | 56  | 70 | 63 | 58 | 54 | 56 | 52 | 49 | 50 | 47 | 45 | 44 | 43 | 41 | 39 |    |    |    |   |
| 7   | 71  | 62  | 56  | 52  | 67 | 59 | 54 | 50 | 53 | 49 | 47 | 48 | 45 | 43 | 43 | 41 | 40 | 37 |    |    |    |   |
| 8   | 68  | 59  | 53  | 49  | 64 | 56 | 51 | 47 | 51 | 47 | 44 | 46 | 43 | 41 | 41 | 39 | 38 | 36 |    |    |    |   |
| 9   | 65  | 56  | 50  | 46  | 61 | 53 | 48 | 45 | 48 | 45 | 42 | 44 | 41 | 39 | 40 | 38 | 37 | 35 |    |    |    |   |
| 10  | 62  | 53  | 47  | 44  | 59 | 51 | 46 | 42 | 46 | 43 | 40 | 42 | 40 | 38 | 39 | 37 | 35 | 34 |    |    |    |   |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1336512 |
| 5°  | 1040346 |
| 10° | 433297  |
| 15° | 183207  |
| 20° | 125736  |
| 25° | 100358  |
| 30° | 92734   |
| 35° | 75876   |
| 40° | 15973   |
| 45° | 3646    |
| 50° | 1305    |
| 55° | 1054    |
| 60° | 617     |
| 65° | 350     |
| 70° | 216     |
| 75° | 286     |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 631.5  | 18.3      |
| 10°-20°   | 442.5  | 12.8      |
| 20°-30°   | 348.8  | 10.1      |
| 30°-40°   | 274.6  | 8.0       |
| 40°-50°   | 22.2   | 0.6       |
| 50°-60°   | 4.3    | 0.1       |
| 60°-70°   | 1.1    | 0.0       |
| 70°-80°   | 0.6    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.6    | 0.0       |
| 110°-120° | 1.1    | 0.0       |
| 120°-130° | 4.3    | 0.1       |
| 130°-140° | 22.2   | 0.6       |
| 140°-150° | 274.6  | 8.0       |
| 150°-160° | 348.8  | 10.1      |
| 160°-170° | 442.5  | 12.8      |
| 170°-180° | 631.5  | 18.3      |
| 0°-30°    | 1422.8 | 41.2      |
| 0°-40°    | 1697.4 | 49.2      |
| 0°-60°    | 1723.9 | 50.0      |
| 0°-90°    | 1725.6 | 50.0      |
| 90°-120°  | 1.7    | 0.0       |
| 90°-150°  | 302.8  | 8.8       |
| 90°-180°  | 1726.0 | 50.0      |
| 0°-180°   | 3451.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 10836 |      |
| 5°   | 8402  | 631  |
| 15°  | 1435  | 443  |
| 25°  | 737   | 349  |
| 35°  | 504   | 275  |
| 45°  | 21    | 22   |
| 55°  | 5     | 4    |
| 65°  | 1     | 1    |
| 75°  | 1     | 1    |
| 85°  | 0     | 0    |
| 90°  | 0     | 0    |
| 95°  | 0     | 0    |
| 105° | 1     | 1    |
| 115° | 1     | 1    |
| 125° | 5     | 4    |
| 135° | 21    | 22   |
| 145° | 504   | 275  |
| 155° | 737   | 349  |
| 165° | 1435  | 443  |
| 175° | 8402  | 631  |
| 180° | 10836 |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |         |
|-------|---------|
| 0°    | 10835.5 |
| 1°    | 10686.4 |
| 2°    | 10376.6 |
| 3°    | 9896.1  |
| 4°    | 9238.8  |
| 5°    | 8402.3  |
| 6°    | 7436.4  |
| 7°    | 6392.9  |
| 8°    | 5369.1  |
| 9°    | 4338.5  |
| 10°   | 3459.5  |
| 11°   | 2757.8  |
| 12°   | 2249.0  |
| 13°   | 1888.7  |
| 14°   | 1627.5  |
| 15°   | 1434.7  |
| 16°   | 1289.9  |
| 17°   | 1184.0  |
| 18°   | 1103.3  |
| 19°   | 1026.3  |
| 20°   | 957.9   |
| 21°   | 901.2   |
| 22°   | 850.7   |
| 23°   | 806.3   |
| 24°   | 767.5   |
| 25°   | 737.4   |
| 26°   | 714.6   |
| 27°   | 697.3   |
| 28°   | 680.7   |
| 29°   | 665.9   |
| 30°   | 651.1   |
| 32.5° | 614.2   |
| 35°   | 503.9   |
| 37.5° | 300.6   |
| 40°   | 99.2    |
| 42.5° | 29.6    |
| 45°   | 20.9    |
| 47.5° | 14.8    |
| 50°   | 6.8     |
| 52.5° | 6.2     |
| 55°   | 4.9     |
| 57.5° | 3.7     |
| 60°   | 2.5     |
| 62.5° | 1.2     |
| 65°   | 1.2     |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     |
|--------|--------|
| 67.5°  | 0.6    |
| 70°    | 0.6    |
| 72.5°  | 0.6    |
| 75°    | 0.6    |
| 77.5°  | 0.6    |
| 80°    | 0.0    |
| 82.5°  | 0.0    |
| 85°    | 0.0    |
| 87.5°  | 0.0    |
| 90°    | 0.0    |
| 92.5°  | 0.0    |
| 95°    | 0.0    |
| 97.5°  | 0.0    |
| 100°   | 0.0    |
| 102.5° | 0.6    |
| 105°   | 0.6    |
| 107.5° | 0.6    |
| 110°   | 0.6    |
| 112.5° | 0.6    |
| 115°   | 1.2    |
| 117.5° | 1.2    |
| 120°   | 2.5    |
| 122.5° | 3.7    |
| 125°   | 4.9    |
| 127.5° | 6.2    |
| 130°   | 6.8    |
| 132.5° | 14.8   |
| 135°   | 20.9   |
| 137.5° | 29.6   |
| 140°   | 99.2   |
| 142.5° | 300.6  |
| 145°   | 503.9  |
| 147.5° | 614.2  |
| 150°   | 651.1  |
| 151°   | 665.9  |
| 152°   | 680.7  |
| 153°   | 697.3  |
| 154°   | 714.6  |
| 155°   | 737.4  |
| 156°   | 767.5  |
| 157°   | 806.3  |
| 158°   | 850.7  |
| 159°   | 901.2  |
| 160°   | 957.9  |
| 161°   | 1026.3 |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°      |
|------|---------|
| 162° | 1103.3  |
| 163° | 1184.0  |
| 164° | 1289.9  |
| 165° | 1434.7  |
| 166° | 1627.5  |
| 167° | 1888.7  |
| 168° | 2249.0  |
| 169° | 2757.8  |
| 170° | 3459.5  |
| 171° | 4338.5  |
| 172° | 5369.1  |
| 173° | 6392.9  |
| 174° | 7436.4  |
| 175° | 8402.3  |
| 176° | 9238.8  |
| 177° | 9896.1  |
| 178° | 10376.6 |
| 179° | 10686.4 |
| 180° | 10835.5 |

(END OF REPORT)