

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: P222122

Luminaire Tested: **9004-W2-FL-LED4080-S-WT-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222122  
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-LED4080-S-WT-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5602.5 lumens  
Efficiency: N/A  
Efficacy: 97.9 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

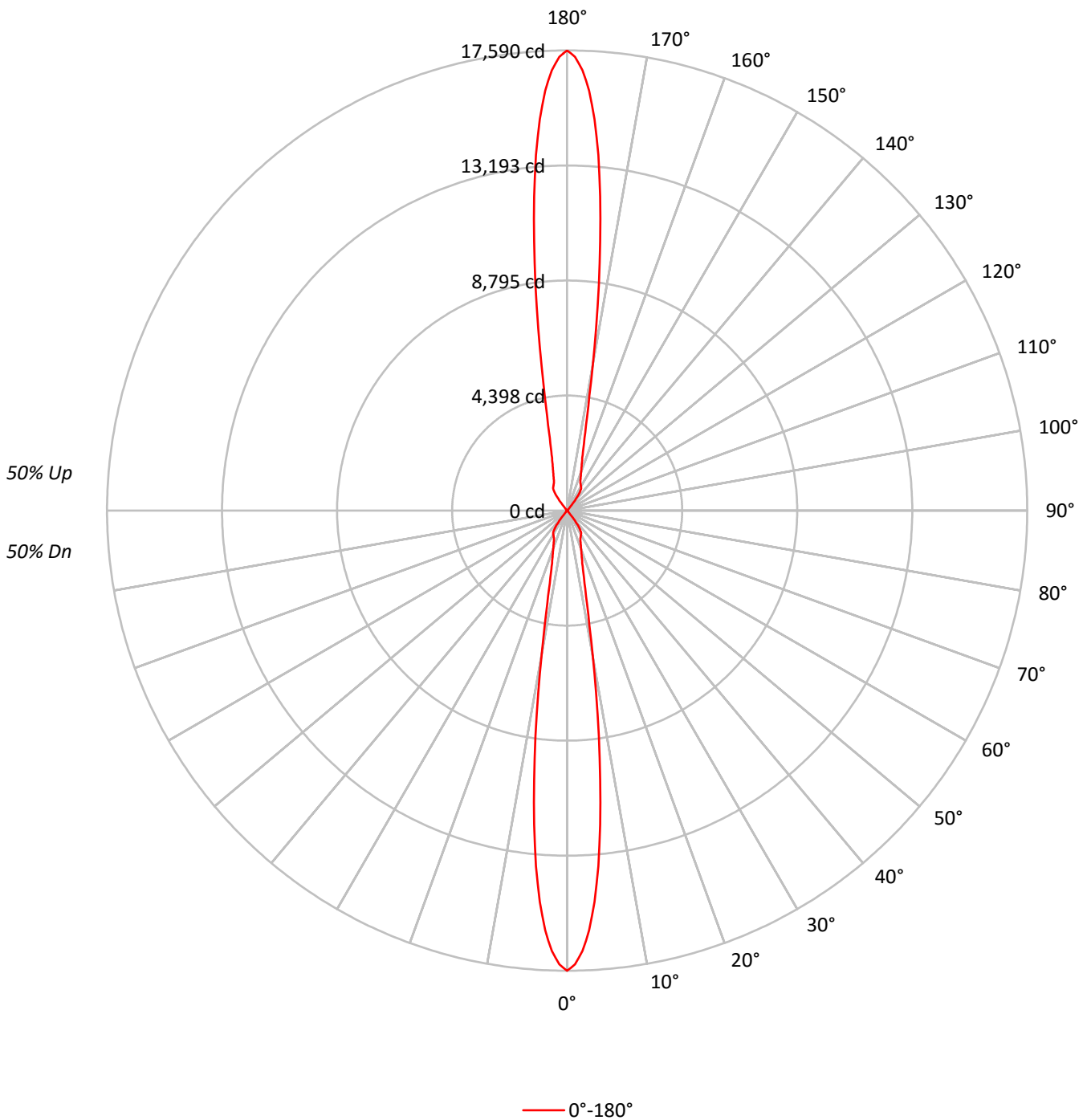
Input Watts (W): 57.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 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°  | 2169650 |
| 5°  | 1688861 |
| 10° | 703395  |
| 15° | 297406  |
| 20° | 204112  |
| 25° | 162908  |
| 30° | 150546  |
| 35° | 123172  |
| 40° | 25924   |
| 45° | 5931    |
| 50° | 2111    |
| 55° | 1720    |
| 60° | 987     |
| 65° | 584     |
| 70° | 361     |
| 75° | 477     |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1025.1 | 18.3      |
| 10°-20°   | 718.4  | 12.8      |
| 20°-30°   | 566.2  | 10.1      |
| 30°-40°   | 445.8  | 8.0       |
| 40°-50°   | 36.0   | 0.6       |
| 50°-60°   | 7.0    | 0.1       |
| 60°-70°   | 1.8    | 0.0       |
| 70°-80°   | 0.9    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.9    | 0.0       |
| 110°-120° | 1.8    | 0.0       |
| 120°-130° | 7.0    | 0.1       |
| 130°-140° | 36.0   | 0.6       |
| 140°-150° | 445.8  | 8.0       |
| 150°-160° | 566.2  | 10.1      |
| 160°-170° | 718.4  | 12.8      |
| 170°-180° | 1025.1 | 18.3      |
| 0°-30°    | 2309.7 | 41.2      |
| 0°-40°    | 2755.5 | 49.2      |
| 0°-60°    | 2798.5 | 50.0      |
| 0°-90°    | 2801.3 | 50.0      |
| 90°-120°  | 2.8    | 0.0       |
| 90°-150°  | 491.6  | 8.8       |
| 90°-180°  | 2801.0 | 50.0      |
| 0°-180°   | 5602.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°    | Flux |
|------|-------|------|
| 0°   | 17590 |      |
| 5°   | 13640 | ###  |
| 15°  | 2329  | 718  |
| 25°  | 1197  | 566  |
| 35°  | 818   | 446  |
| 45°  | 34    | 36   |
| 55°  | 8     | 7    |
| 65°  | 2     | 2    |
| 75°  | 1     | 1    |
| 85°  | 0     | 0    |
| 90°  | 0     | 0    |
| 95°  | 0     | 0    |
| 105° | 1     | 1    |
| 115° | 2     | 2    |
| 125° | 8     | 7    |
| 135° | 34    | 36   |
| 145° | 818   | 446  |
| 155° | 1197  | 566  |
| 165° | 2329  | 718  |
| 175° | 13640 | ###  |
| 180° | 17590 |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 17590 |
| 1°    | 17348 |
| 2°    | 16845 |
| 3°    | 16065 |
| 4°    | 14998 |
| 5°    | 13640 |
| 6°    | 12072 |
| 7°    | 10378 |
| 8°    | 8716  |
| 9°    | 7043  |
| 10°   | 5616  |
| 11°   | 4477  |
| 12°   | 3651  |
| 13°   | 3066  |
| 14°   | 2642  |
| 15°   | 2329  |
| 16°   | 2094  |
| 17°   | 1922  |
| 18°   | 1791  |
| 19°   | 1666  |
| 20°   | 1555  |
| 21°   | 1463  |
| 22°   | 1381  |
| 23°   | 1309  |
| 24°   | 1246  |
| 25°   | 1197  |
| 26°   | 1160  |
| 27°   | 1132  |
| 28°   | 1105  |
| 29°   | 1081  |
| 30°   | 1057  |
| 32.5° | 997   |
| 35°   | 818   |
| 37.5° | 488   |
| 40°   | 161   |
| 42.5° | 48    |
| 45°   | 34    |
| 47.5° | 24    |
| 50°   | 11    |
| 52.5° | 10    |
| 55°   | 8     |
| 57.5° | 6     |
| 60°   | 4     |
| 62.5° | 2     |
| 65°   | 2     |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°   |
|--------|------|
| 67.5°  | 1    |
| 70°    | 1    |
| 72.5°  | 1    |
| 75°    | 1    |
| 77.5°  | 1    |
| 80°    | 0    |
| 82.5°  | 0    |
| 85°    | 0    |
| 87.5°  | 0    |
| 90°    | 0    |
| 92.5°  | 0    |
| 95°    | 0    |
| 97.5°  | 0    |
| 100°   | 0    |
| 102.5° | 1    |
| 105°   | 1    |
| 107.5° | 1    |
| 110°   | 1    |
| 112.5° | 1    |
| 115°   | 2    |
| 117.5° | 2    |
| 120°   | 4    |
| 122.5° | 6    |
| 125°   | 8    |
| 127.5° | 10   |
| 130°   | 11   |
| 132.5° | 24   |
| 135°   | 34   |
| 137.5° | 48   |
| 140°   | 161  |
| 142.5° | 488  |
| 145°   | 818  |
| 147.5° | 997  |
| 150°   | 1057 |
| 151°   | 1081 |
| 152°   | 1105 |
| 153°   | 1132 |
| 154°   | 1160 |
| 155°   | 1197 |
| 156°   | 1246 |
| 157°   | 1309 |
| 158°   | 1381 |
| 159°   | 1463 |
| 160°   | 1555 |
| 161°   | 1666 |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°    |
|------|-------|
| 162° | 1791  |
| 163° | 1922  |
| 164° | 2094  |
| 165° | 2329  |
| 166° | 2642  |
| 167° | 3066  |
| 168° | 3651  |
| 169° | 4477  |
| 170° | 5616  |
| 171° | 7043  |
| 172° | 8716  |
| 173° | 10378 |
| 174° | 12072 |
| 175° | 13640 |
| 176° | 14998 |
| 177° | 16065 |
| 178° | 16845 |
| 179° | 17348 |
| 180° | 17590 |

(END OF REPORT)