

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: P222019

Luminaire Tested: **9004-W2-FL-LED3090-M-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222019  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29497)  
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-M-WT-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 3000K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3481.8 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

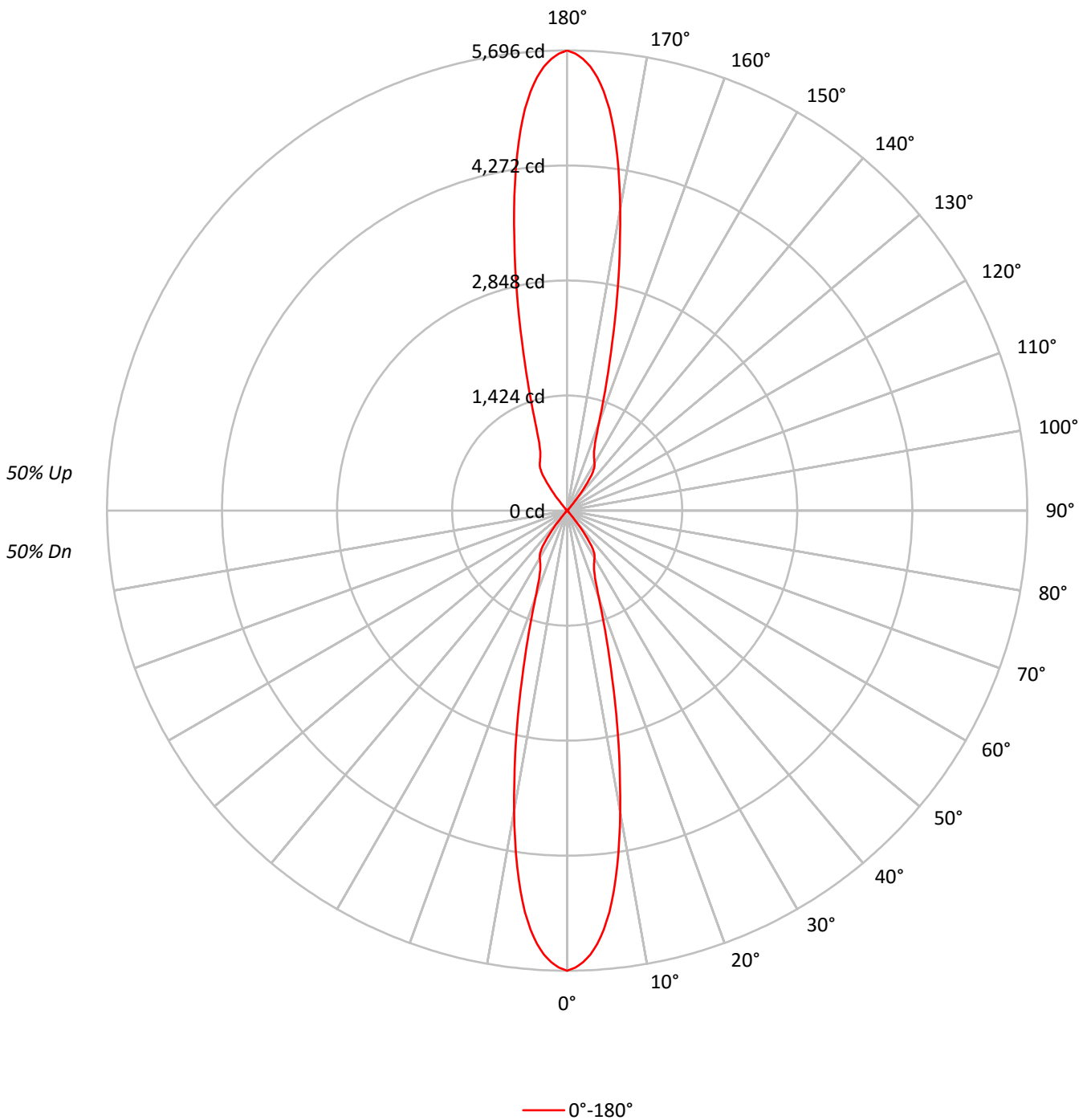
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 94  | 92  | 93 | 90 | 88 | 86 | 77 | 76 | 74 |  | 65 | 64 | 63 |  | 54 | 53 | 53 | 48 |
| 2   | 94  | 89  | 84  | 81  | 87 | 83 | 79 | 76 | 72 | 69 | 67 |  | 61 | 59 | 58 |  | 52 | 51 | 50 | 45 |
| 3   | 89  | 82  | 76  | 72  | 82 | 76 | 72 | 68 | 67 | 63 | 61 |  | 58 | 56 | 54 |  | 49 | 48 | 47 | 43 |
| 4   | 83  | 75  | 69  | 65  | 78 | 71 | 66 | 62 | 62 | 59 | 56 |  | 55 | 52 | 50 |  | 47 | 46 | 44 | 41 |
| 5   | 79  | 70  | 64  | 59  | 73 | 66 | 61 | 57 | 59 | 55 | 52 |  | 52 | 49 | 47 |  | 45 | 43 | 42 | 39 |
| 6   | 74  | 65  | 59  | 55  | 70 | 62 | 56 | 52 | 55 | 51 | 48 |  | 49 | 46 | 44 |  | 43 | 41 | 40 | 38 |
| 7   | 70  | 61  | 55  | 51  | 66 | 58 | 53 | 49 | 52 | 48 | 45 |  | 47 | 44 | 42 |  | 42 | 40 | 38 | 36 |
| 8   | 67  | 57  | 51  | 47  | 63 | 55 | 49 | 46 | 49 | 45 | 42 |  | 45 | 42 | 39 |  | 40 | 38 | 36 | 34 |
| 9   | 64  | 54  | 48  | 44  | 60 | 52 | 46 | 43 | 47 | 43 | 40 |  | 43 | 40 | 38 |  | 38 | 36 | 35 | 33 |
| 10  | 61  | 51  | 45  | 42  | 57 | 49 | 44 | 40 | 45 | 41 | 38 |  | 41 | 38 | 36 |  | 37 | 35 | 33 | 32 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 702601 |
| 5°  | 644726 |
| 10° | 473727 |
| 15° | 275787 |
| 20° | 150400 |
| 25° | 106890 |
| 30° | 96338  |
| 35° | 75876  |
| 40° | 16858  |
| 45° | 4623   |
| 50° | 1535   |
| 55° | 925    |
| 60° | 617    |
| 65° | 350    |
| 70° | 216    |
| 75° | 286    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 451.1  | 13.0      |
| 10°-20°   | 602.0  | 17.3      |
| 20°-30°   | 376.5  | 10.8      |
| 30°-40°   | 279.2  | 8.0       |
| 40°-50°   | 26.0   | 0.7       |
| 50°-60°   | 4.2    | 0.1       |
| 60°-70°   | 1.4    | 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° | 1.4    | 0.0       |
| 120°-130° | 4.2    | 0.1       |
| 130°-140° | 26.0   | 0.7       |
| 140°-150° | 279.2  | 8.0       |
| 150°-160° | 376.5  | 10.8      |
| 160°-170° | 602.0  | 17.3      |
| 170°-180° | 451.1  | 13.0      |
| 0°-30°    | 1429.5 | 41.1      |
| 0°-40°    | 1708.8 | 49.1      |
| 0°-60°    | 1738.9 | 49.9      |
| 0°-90°    | 1740.9 | 50.0      |
| 90°-120°  | 2.0    | 0.1       |
| 90°-150°  | 311.4  | 8.9       |
| 90°-180°  | 1741.0 | 50.0      |
| 0°-180°   | 3481.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 5696 |      |
| 5°   | 5207 | 451  |
| 15°  | 2160 | 602  |
| 25°  | 785  | 376  |
| 35°  | 504  | 279  |
| 45°  | 26   | 26   |
| 55°  | 4    | 4    |
| 65°  | 1    | 1    |
| 75°  | 1    | 1    |
| 85°  | 0    | 0    |
| 90°  | 0    | 0    |
| 95°  | 0    | 0    |
| 105° | 1    | 1    |
| 115° | 1    | 1    |
| 125° | 4    | 4    |
| 135° | 26   | 26   |
| 145° | 504  | 279  |
| 155° | 785  | 376  |
| 165° | 2160 | 602  |
| 175° | 5207 | 451  |
| 180° | 5696 |      |



TEST NUMBER: P222019

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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 5696.2 |
| 1°    | 5658.6 |
| 2°    | 5594.5 |
| 3°    | 5502.1 |
| 4°    | 5375.2 |
| 5°    | 5207.1 |
| 6°    | 4998.3 |
| 7°    | 4746.3 |
| 8°    | 4452.5 |
| 9°    | 4124.8 |
| 10°   | 3782.3 |
| 11°   | 3431.8 |
| 12°   | 3092.3 |
| 13°   | 2761.5 |
| 14°   | 2447.4 |
| 15°   | 2159.7 |
| 16°   | 1897.9 |
| 17°   | 1669.4 |
| 18°   | 1464.2 |
| 19°   | 1290.5 |
| 20°   | 1145.8 |
| 21°   | 1031.2 |
| 22°   | 939.4  |
| 23°   | 871.6  |
| 24°   | 821.7  |
| 25°   | 785.4  |
| 26°   | 758.3  |
| 27°   | 734.9  |
| 28°   | 713.3  |
| 29°   | 694.9  |
| 30°   | 676.4  |
| 32.5° | 625.2  |
| 35°   | 503.9  |
| 37.5° | 304.9  |
| 40°   | 104.7  |
| 42.5° | 36.3   |
| 45°   | 26.5   |
| 47.5° | 19.1   |
| 50°   | 8.0    |
| 52.5° | 6.2    |
| 55°   | 4.3    |
| 57.5° | 3.1    |
| 60°   | 2.5    |
| 62.5° | 1.8    |
| 65°   | 1.2    |



TEST NUMBER: P222019

CATALOG NUMBER: 9004-W2-FL-LED3090-M-WT-L2-UNV

**CANDELA DISTRIBUTION (continued):**

|        | 0°     |
|--------|--------|
| 67.5°  | 1.2    |
| 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° | 1.2    |
| 115°   | 1.2    |
| 117.5° | 1.8    |
| 120°   | 2.5    |
| 122.5° | 3.1    |
| 125°   | 4.3    |
| 127.5° | 6.2    |
| 130°   | 8.0    |
| 132.5° | 19.1   |
| 135°   | 26.5   |
| 137.5° | 36.3   |
| 140°   | 104.7  |
| 142.5° | 304.9  |
| 145°   | 503.9  |
| 147.5° | 625.2  |
| 150°   | 676.4  |
| 151°   | 694.9  |
| 152°   | 713.3  |
| 153°   | 734.9  |
| 154°   | 758.3  |
| 155°   | 785.4  |
| 156°   | 821.7  |
| 157°   | 871.6  |
| 158°   | 939.4  |
| 159°   | 1031.2 |
| 160°   | 1145.8 |
| 161°   | 1290.5 |



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CATALOG NUMBER: 9004-W2-FL-LED3090-M-WT-L2-UNV

**CANDELA DISTRIBUTION (continued):**

|      | 0°     |
|------|--------|
| 162° | 1464.2 |
| 163° | 1669.4 |
| 164° | 1897.9 |
| 165° | 2159.7 |
| 166° | 2447.4 |
| 167° | 2761.5 |
| 168° | 3092.3 |
| 169° | 3431.8 |
| 170° | 3782.3 |
| 171° | 4124.8 |
| 172° | 4452.5 |
| 173° | 4746.3 |
| 174° | 4998.3 |
| 175° | 5207.1 |
| 176° | 5375.2 |
| 177° | 5502.1 |
| 178° | 5594.5 |
| 179° | 5658.6 |
| 180° | 5696.2 |

(END OF REPORT)