

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: P221320

Luminaire Tested: **9002-W2-FL-LED3090-M-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29418)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W2-FL-LED3090-M-WT-L1-UNV  
Description: LUMIERE LANTERRA 9002 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: 1628.8 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.36  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

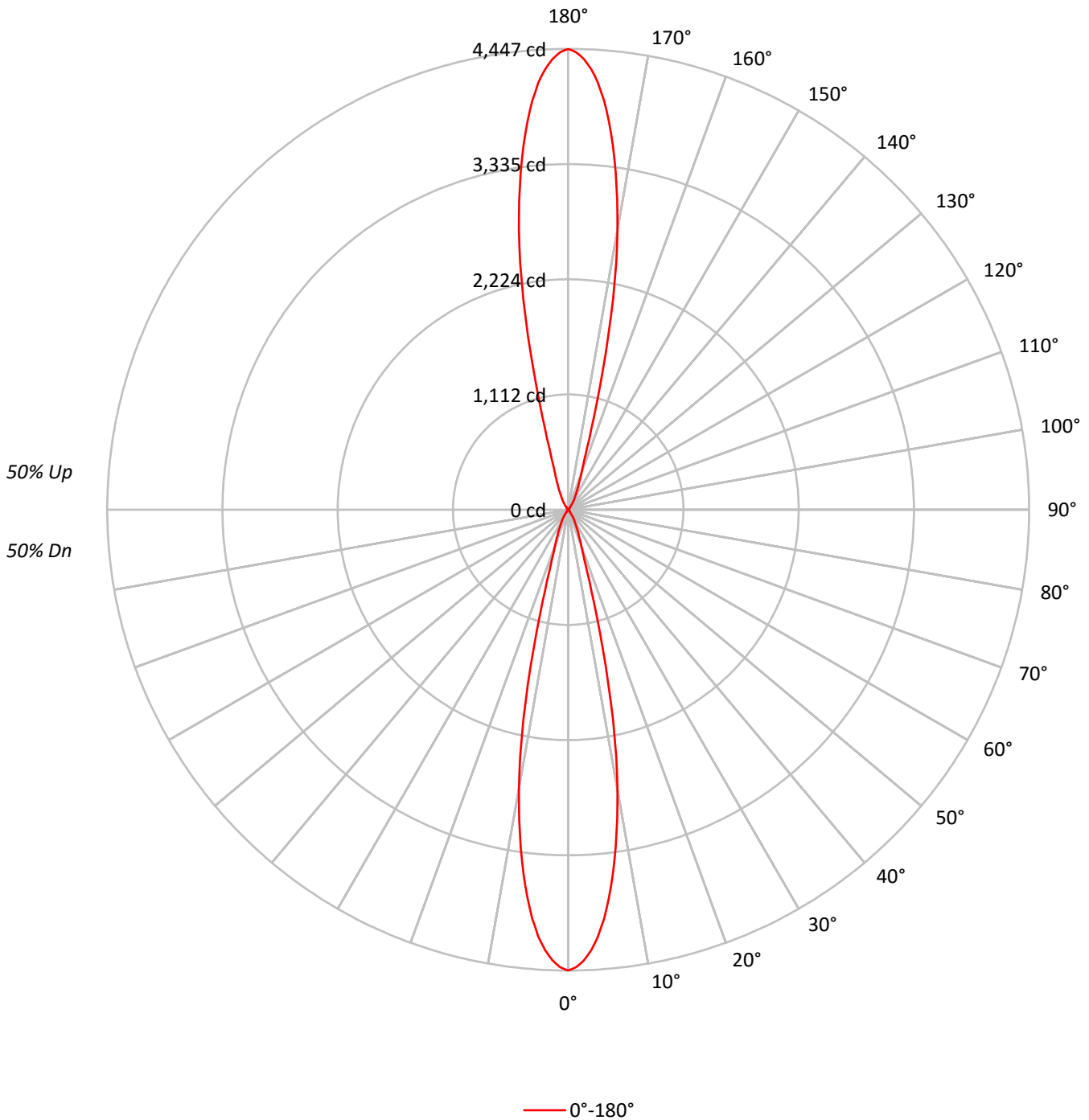
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221320

CATALOG NUMBER: 9002-W2-FL-LED3090-M-WT-L1-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221320

CATALOG NUMBER: 9002-W2-FL-LED3090-M-WT-L1-UNV

**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 | 98  | 95  | 92  | 93 | 91 | 88 | 86 | 77 | 76 | 75 | 65 | 64 | 64 | 54 | 54 | 53 | 48 |    |    |    |   |
| 2   | 95  | 90  | 85  | 82  | 88 | 84 | 80 | 77 | 72 | 70 | 68 | 62 | 61 | 59 | 52 | 52 | 51 | 47 |    |    |    |   |
| 3   | 90  | 83  | 78  | 74  | 83 | 78 | 74 | 70 | 68 | 65 | 63 | 59 | 57 | 56 | 51 | 50 | 49 | 45 |    |    |    |   |
| 4   | 85  | 77  | 72  | 67  | 79 | 73 | 68 | 64 | 64 | 61 | 58 | 57 | 54 | 53 | 49 | 48 | 47 | 44 |    |    |    |   |
| 5   | 81  | 72  | 67  | 62  | 75 | 68 | 64 | 60 | 61 | 58 | 55 | 54 | 52 | 50 | 48 | 46 | 45 | 42 |    |    |    |   |
| 6   | 77  | 68  | 62  | 58  | 72 | 65 | 60 | 56 | 58 | 55 | 52 | 52 | 50 | 48 | 46 | 45 | 44 | 41 |    |    |    |   |
| 7   | 73  | 64  | 59  | 55  | 69 | 61 | 56 | 53 | 56 | 52 | 49 | 50 | 48 | 46 | 45 | 44 | 42 | 40 |    |    |    |   |
| 8   | 70  | 61  | 56  | 52  | 66 | 58 | 54 | 50 | 53 | 50 | 47 | 49 | 46 | 44 | 44 | 42 | 41 | 39 |    |    |    |   |
| 9   | 67  | 58  | 53  | 49  | 64 | 56 | 51 | 48 | 51 | 48 | 45 | 47 | 44 | 43 | 43 | 41 | 40 | 38 |    |    |    |   |
| 10  | 65  | 56  | 51  | 47  | 61 | 54 | 49 | 46 | 49 | 46 | 44 | 46 | 43 | 41 | 42 | 40 | 39 | 37 |    |    |    |   |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 2193960 |
| 5°  | 1962286 |
| 10° | 1369959 |
| 15° | 540563  |
| 20° | 194214  |
| 25° | 109639  |
| 30° | 62611   |
| 35° | 33850   |
| 40° | 13461   |
| 45° | 8931    |
| 50° | 6140    |
| 55° | 5505    |
| 60° | 5526    |
| 65° | 6538    |
| 70° | 6924    |
| 75° | 7625    |
| 80° | 4546    |
| 85° | 4529    |



TEST NUMBER: P221320

CATALOG NUMBER: 9002-W2-FL-LED3090-M-WT-L1-UNV

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 338.4  | 20.8      |
| 10°-20°   | 318.0  | 19.5      |
| 20°-30°   | 96.0   | 5.9       |
| 30°-40°   | 35.5   | 2.2       |
| 40°-50°   | 10.3   | 0.6       |
| 50°-60°   | 6.0    | 0.4       |
| 60°-70°   | 5.5    | 0.3       |
| 70°-80°   | 3.8    | 0.2       |
| 80°-90°   | 1.1    | 0.1       |
| 90°-100°  | 1.1    | 0.1       |
| 100°-110° | 3.8    | 0.2       |
| 110°-120° | 5.5    | 0.3       |
| 120°-130° | 6.0    | 0.4       |
| 130°-140° | 10.3   | 0.6       |
| 140°-150° | 35.5   | 2.2       |
| 150°-160° | 96.0   | 5.9       |
| 160°-170° | 318.0  | 19.5      |
| 170°-180° | 338.4  | 20.8      |
| 0°-30°    | 752.3  | 46.2      |
| 0°-40°    | 787.8  | 48.4      |
| 0°-60°    | 804.1  | 49.4      |
| 0°-90°    | 814.4  | 50.0      |
| 90°-120°  | 10.3   | 0.6       |
| 90°-150°  | 62.1   | 3.8       |
| 90°-180°  | 814.0  | 50.0      |
| 0°-180°   | 1628.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 4447 |      |
| 5°   | 3962 | 338  |
| 15°  | 1058 | 318  |
| 25°  | 201  | 96   |
| 35°  | 56   | 35   |
| 45°  | 13   | 10   |
| 55°  | 6    | 6    |
| 65°  | 6    | 5    |
| 75°  | 4    | 4    |
| 85°  | 1    | 1    |
| 90°  | 0    | 0    |
| 95°  | 1    | 1    |
| 105° | 4    | 4    |
| 115° | 6    | 5    |
| 125° | 6    | 6    |
| 135° | 13   | 10   |
| 145° | 56   | 35   |
| 155° | 201  | 96   |
| 165° | 1058 | 318  |
| 175° | 3962 | 338  |
| 180° | 4447 |      |



TEST NUMBER: P221320

CATALOG NUMBER: 9002-W2-FL-LED3090-M-WT-L1-UNV

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 4446.8 |
| 1°    | 4415.5 |
| 2°    | 4350.5 |
| 3°    | 4256.6 |
| 4°    | 4129.0 |
| 5°    | 3962.1 |
| 6°    | 3763.1 |
| 7°    | 3541.7 |
| 8°    | 3290.5 |
| 9°    | 3021.8 |
| 10°   | 2734.5 |
| 11°   | 2421.6 |
| 12°   | 2079.8 |
| 13°   | 1721.9 |
| 14°   | 1370.5 |
| 15°   | 1058.3 |
| 16°   | 808.8  |
| 17°   | 626.7  |
| 18°   | 506.3  |
| 19°   | 426.1  |
| 20°   | 369.9  |
| 22.5° | 272.0  |
| 25°   | 201.4  |
| 26°   | 178.1  |
| 27°   | 158.1  |
| 28°   | 140.4  |
| 29°   | 124.4  |
| 30°   | 109.9  |
| 32.5° | 80.2   |
| 35°   | 56.2   |
| 37.5° | 31.3   |
| 40°   | 20.9   |
| 42.5° | 16.0   |
| 45°   | 12.8   |
| 47.5° | 10.4   |
| 50°   | 8.0    |
| 52.5° | 7.2    |
| 55°   | 6.4    |
| 57.5° | 6.4    |
| 60°   | 5.6    |
| 62.5° | 5.6    |
| 65°   | 5.6    |
| 67.5° | 5.6    |
| 70°   | 4.8    |
| 72.5° | 4.0    |

TEST NUMBER: P221320

CATALOG NUMBER: 9002-W2-FL-LED3090-M-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

|        | 0°     |
|--------|--------|
| 75°    | 4.0    |
| 77.5°  | 3.2    |
| 80°    | 1.6    |
| 82.5°  | 1.6    |
| 85°    | 0.8    |
| 87.5°  | 0.8    |
| 90°    | 0.0    |
| 92.5°  | 0.8    |
| 95°    | 0.8    |
| 97.5°  | 1.6    |
| 100°   | 1.6    |
| 102.5° | 3.2    |
| 105°   | 4.0    |
| 107.5° | 4.0    |
| 110°   | 4.8    |
| 112.5° | 5.6    |
| 115°   | 5.6    |
| 117.5° | 5.6    |
| 120°   | 5.6    |
| 122.5° | 6.4    |
| 125°   | 6.4    |
| 127.5° | 7.2    |
| 130°   | 8.0    |
| 132.5° | 10.4   |
| 135°   | 12.8   |
| 137.5° | 16.0   |
| 140°   | 20.9   |
| 142.5° | 31.3   |
| 145°   | 56.2   |
| 147.5° | 80.2   |
| 150°   | 109.9  |
| 151°   | 124.4  |
| 152°   | 140.4  |
| 153°   | 158.1  |
| 154°   | 178.1  |
| 155°   | 201.4  |
| 157.5° | 272.0  |
| 160°   | 369.9  |
| 161°   | 426.1  |
| 162°   | 506.3  |
| 163°   | 626.7  |
| 164°   | 808.8  |
| 165°   | 1058.3 |
| 166°   | 1370.5 |
| 167°   | 1721.9 |



TEST NUMBER: P221320

CATALOG NUMBER: 9002-W2-FL-LED3090-M-WT-L1-UNV

**CANDELA DISTRIBUTION (continued):**

|      | 0°     |
|------|--------|
| 168° | 2079.8 |
| 169° | 2421.6 |
| 170° | 2734.5 |
| 171° | 3021.8 |
| 172° | 3290.5 |
| 173° | 3541.7 |
| 174° | 3763.1 |
| 175° | 3962.1 |
| 176° | 4129.0 |
| 177° | 4256.6 |
| 178° | 4350.5 |
| 179° | 4415.5 |
| 180° | 4446.8 |

(END OF REPORT)