

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: P221748

Luminaire Tested: **9004-W2-[RW, RI]-LED2797-F-WT-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-[RW, RI]-LED2797-F-WT-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 2700K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1577.9 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

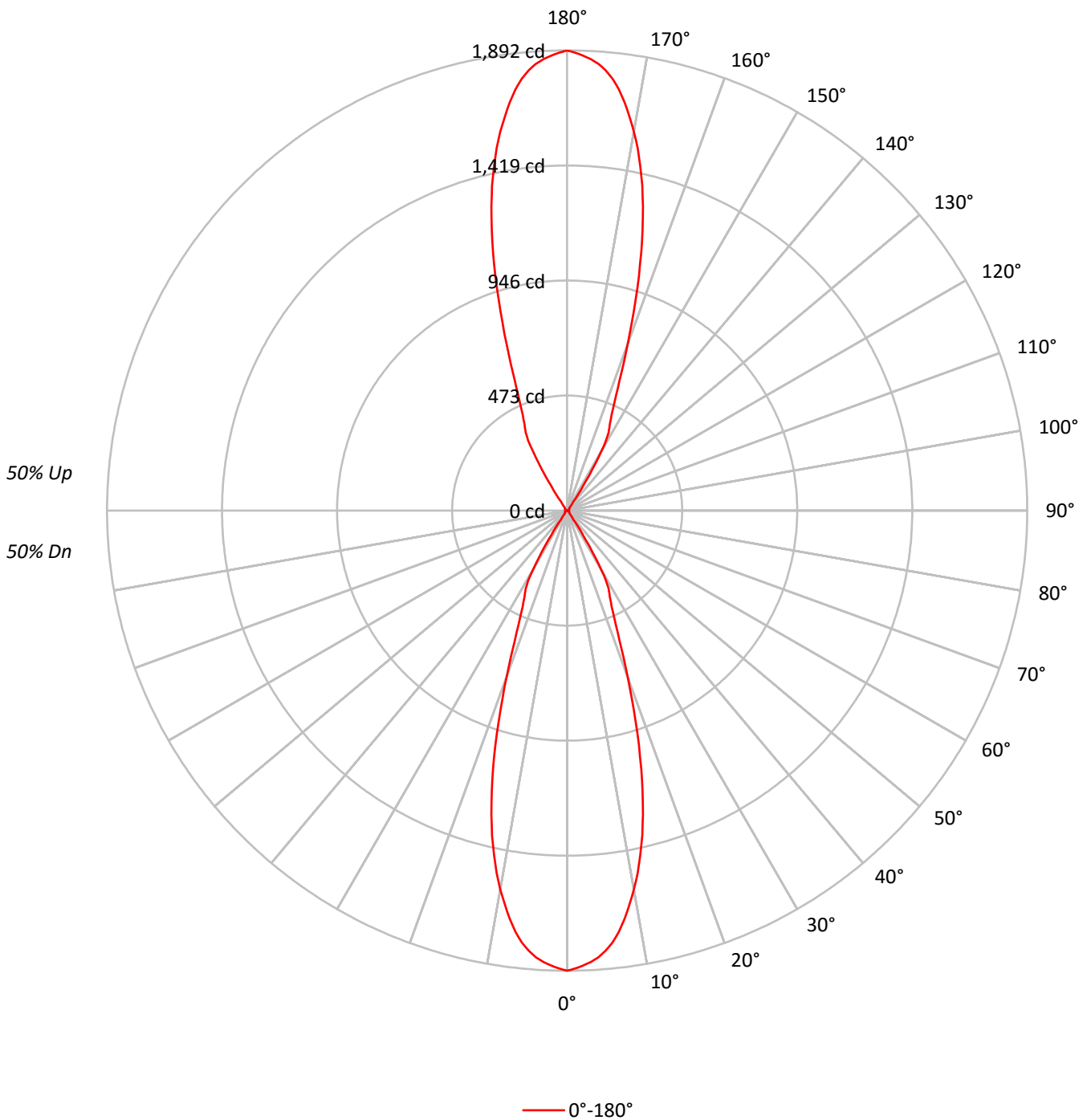
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 100 | 97  | 94  | 91  | 93 | 90 | 87 | 85 | 77 | 75 | 74 | 65 | 64 | 63 | 53 | 53 | 52 | 47 |
| 2   | 94  | 88  | 84  | 80  | 87 | 82 | 78 | 75 | 71 | 68 | 66 | 61 | 59 | 57 | 51 | 50 | 49 | 45 |
| 3   | 88  | 81  | 76  | 71  | 82 | 76 | 71 | 67 | 66 | 63 | 60 | 57 | 55 | 53 | 49 | 47 | 46 | 42 |
| 4   | 83  | 75  | 69  | 64  | 77 | 70 | 65 | 61 | 62 | 58 | 55 | 54 | 51 | 49 | 47 | 45 | 44 | 40 |
| 5   | 78  | 69  | 63  | 59  | 73 | 65 | 60 | 56 | 58 | 54 | 51 | 51 | 48 | 46 | 45 | 43 | 41 | 39 |
| 6   | 74  | 65  | 58  | 54  | 69 | 61 | 56 | 52 | 55 | 51 | 48 | 49 | 46 | 43 | 43 | 41 | 39 | 37 |
| 7   | 70  | 60  | 54  | 50  | 66 | 57 | 52 | 48 | 52 | 48 | 45 | 46 | 43 | 41 | 41 | 39 | 38 | 35 |
| 8   | 66  | 57  | 51  | 47  | 62 | 54 | 49 | 45 | 49 | 45 | 42 | 44 | 41 | 39 | 39 | 37 | 36 | 34 |
| 9   | 63  | 54  | 48  | 44  | 60 | 51 | 46 | 42 | 46 | 42 | 40 | 42 | 39 | 37 | 38 | 36 | 34 | 33 |
| 10  | 60  | 51  | 45  | 41  | 57 | 48 | 43 | 40 | 44 | 40 | 38 | 40 | 37 | 35 | 37 | 34 | 33 | 31 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 233321 |
| 5°  | 224975 |
| 10° | 198105 |
| 15° | 152968 |
| 20° | 95506  |
| 25° | 58794  |
| 30° | 40307  |
| 35° | 6339   |
| 40° | 2866   |
| 45° | 1936   |
| 50° | 2015   |
| 55° | 2193   |
| 60° | 2442   |
| 65° | 2743   |
| 70° | 3174   |
| 75° | 3908   |
| 80° | 4546   |
| 85° | 4529   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 165.9  | 10.5      |
| 10°-20°   | 321.7  | 20.4      |
| 20°-30°   | 208.3  | 13.2      |
| 30°-40°   | 53.6   | 3.4       |
| 40°-50°   | 9.1    | 0.6       |
| 50°-60°   | 9.2    | 0.6       |
| 60°-70°   | 9.3    | 0.6       |
| 70°-80°   | 8.3    | 0.5       |
| 80°-90°   | 3.5    | 0.2       |
| 90°-100°  | 3.5    | 0.2       |
| 100°-110° | 8.3    | 0.5       |
| 110°-120° | 9.3    | 0.6       |
| 120°-130° | 9.2    | 0.6       |
| 130°-140° | 9.1    | 0.6       |
| 140°-150° | 53.6   | 3.4       |
| 150°-160° | 208.3  | 13.2      |
| 160°-170° | 321.7  | 20.4      |
| 170°-180° | 165.9  | 10.5      |
| 0°-30°    | 695.9  | 44.1      |
| 0°-40°    | 749.4  | 47.5      |
| 0°-60°    | 767.8  | 48.7      |
| 0°-90°    | 788.9  | 50.0      |
| 90°-120°  | 21.1   | 1.3       |
| 90°-150°  | 93.1   | 5.9       |
| 90°-180°  | 789.0  | 50.0      |
| 0°-180°   | 1577.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 1892 |      |
| 5°   | 1817 | 166  |
| 15°  | 1198 | 322  |
| 25°  | 432  | 208  |
| 35°  | 42   | 54   |
| 45°  | 11   | 9    |
| 55°  | 10   | 9    |
| 65°  | 9    | 9    |
| 75°  | 8    | 8    |
| 85°  | 3    | 3    |
| 90°  | 0    | 0    |
| 95°  | 3    | 3    |
| 105° | 8    | 8    |
| 115° | 9    | 9    |
| 125° | 10   | 9    |
| 135° | 11   | 9    |
| 145° | 42   | 54   |
| 155° | 432  | 208  |
| 165° | 1198 | 322  |
| 175° | 1817 | 166  |
| 180° | 1892 |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1891.6 |
| 1°    | 1883.1 |
| 2°    | 1872.0 |
| 3°    | 1858.8 |
| 4°    | 1841.9 |
| 5°    | 1817.0 |
| 6°    | 1785.5 |
| 7°    | 1744.2 |
| 8°    | 1694.8 |
| 9°    | 1639.9 |
| 10°   | 1581.7 |
| 11°   | 1518.0 |
| 12°   | 1447.8 |
| 13°   | 1371.8 |
| 14°   | 1288.5 |
| 15°   | 1197.9 |
| 16°   | 1104.4 |
| 17°   | 1008.2 |
| 18°   | 911.7  |
| 19°   | 816.7  |
| 20°   | 727.6  |
| 21°   | 646.0  |
| 22°   | 575.0  |
| 23°   | 515.1  |
| 24°   | 468.0  |
| 25°   | 432.0  |
| 26°   | 403.7  |
| 27°   | 381.8  |
| 28°   | 363.3  |
| 29°   | 331.2  |
| 30°   | 283.0  |
| 32.5° | 141.5  |
| 35°   | 42.1   |
| 37.5° | 26.9   |
| 40°   | 17.8   |
| 42.5° | 11.4   |
| 45°   | 11.1   |
| 47.5° | 10.8   |
| 50°   | 10.5   |
| 52.5° | 10.5   |
| 55°   | 10.2   |
| 57.5° | 10.2   |
| 60°   | 9.9    |
| 62.5° | 9.6    |
| 65°   | 9.4    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 67.5°  | 9.1   |
| 70°    | 8.8   |
| 72.5°  | 8.5   |
| 75°    | 8.2   |
| 77.5°  | 7.3   |
| 80°    | 6.4   |
| 82.5°  | 5.0   |
| 85°    | 3.2   |
| 87.5°  | 1.5   |
| 90°    | 0.0   |
| 92.5°  | 1.5   |
| 95°    | 3.2   |
| 97.5°  | 5.0   |
| 100°   | 6.4   |
| 102.5° | 7.3   |
| 105°   | 8.2   |
| 107.5° | 8.5   |
| 110°   | 8.8   |
| 112.5° | 9.1   |
| 115°   | 9.4   |
| 117.5° | 9.6   |
| 120°   | 9.9   |
| 122.5° | 10.2  |
| 125°   | 10.2  |
| 127.5° | 10.5  |
| 130°   | 10.5  |
| 132.5° | 10.8  |
| 135°   | 11.1  |
| 137.5° | 11.4  |
| 140°   | 17.8  |
| 142.5° | 26.9  |
| 145°   | 42.1  |
| 147.5° | 141.5 |
| 150°   | 283.0 |
| 151°   | 331.2 |
| 152°   | 363.3 |
| 153°   | 381.8 |
| 154°   | 403.7 |
| 155°   | 432.0 |
| 156°   | 468.0 |
| 157°   | 515.1 |
| 158°   | 575.0 |
| 159°   | 646.0 |
| 160°   | 727.6 |
| 161°   | 816.7 |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°     |
|------|--------|
| 162° | 911.7  |
| 163° | 1008.2 |
| 164° | 1104.4 |
| 165° | 1197.9 |
| 166° | 1288.5 |
| 167° | 1371.8 |
| 168° | 1447.8 |
| 169° | 1518.0 |
| 170° | 1581.7 |
| 171° | 1639.9 |
| 172° | 1694.8 |
| 173° | 1744.2 |
| 174° | 1785.5 |
| 175° | 1817.0 |
| 176° | 1841.9 |
| 177° | 1858.8 |
| 178° | 1872.0 |
| 179° | 1883.1 |
| 180° | 1891.6 |

(END OF REPORT)