

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: P221416

Luminaire Tested: **9003-W2-[RW, RI]-LED2797-W-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29471)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9003-W2-[RW, RI]-LED2797-W-WT-L2-UNV  
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 2700K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2379.9 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.68  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: General Diffuse

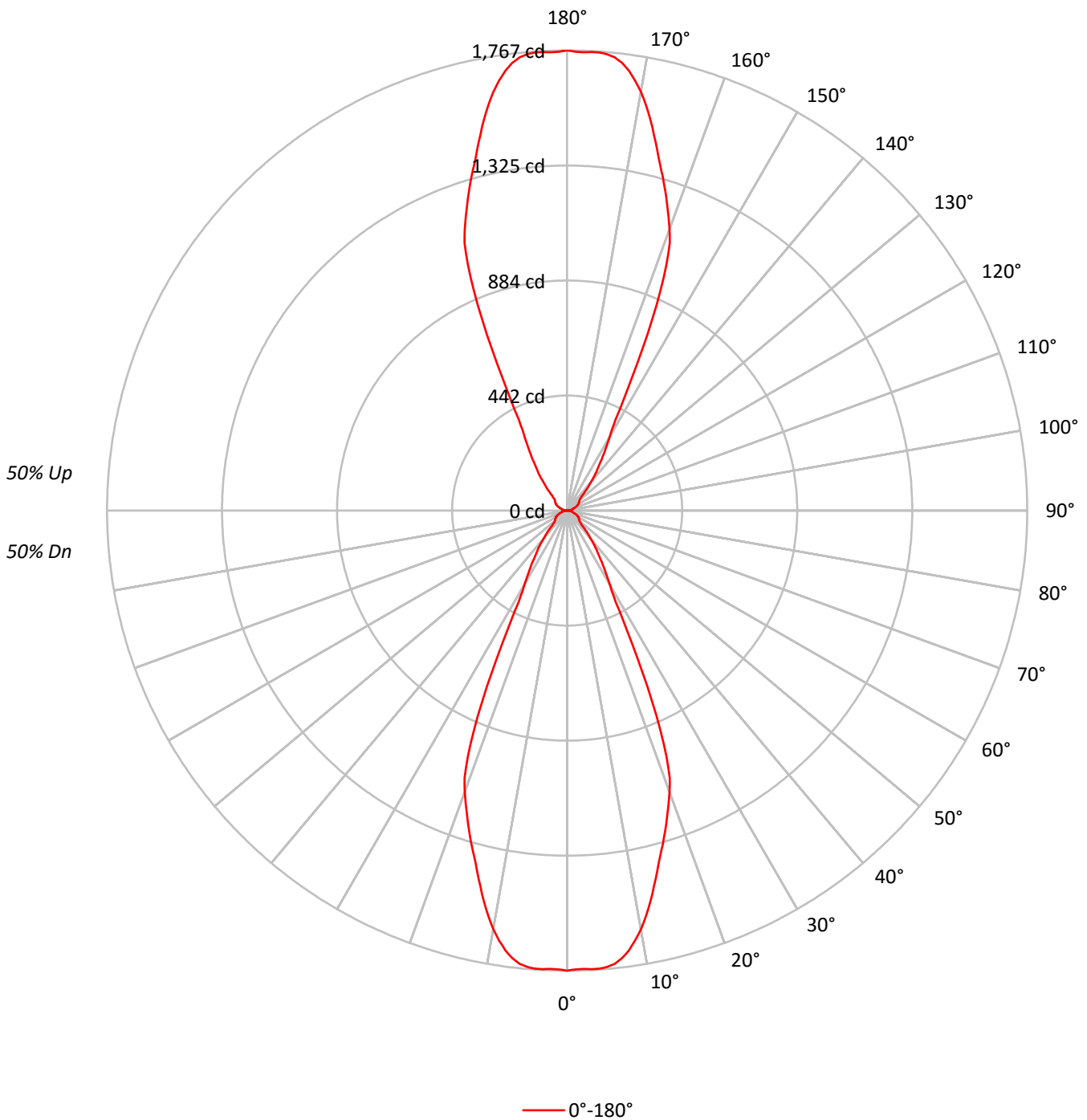
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 100 | 96  | 93  | 90  | 92 | 89 | 86 | 84 | 76 | 74 | 72 |  | 64 | 63 | 61 |  | 53 | 52 | 51 | 46 |
| 2   | 93  | 87  | 82  | 78  | 86 | 81 | 76 | 73 | 69 | 66 | 64 |  | 59 | 57 | 55 |  | 49 | 48 | 47 | 42 |
| 3   | 86  | 79  | 73  | 68  | 80 | 73 | 68 | 64 | 64 | 60 | 57 |  | 55 | 52 | 50 |  | 46 | 44 | 43 | 39 |
| 4   | 81  | 72  | 65  | 60  | 75 | 67 | 62 | 57 | 59 | 55 | 51 |  | 51 | 48 | 46 |  | 43 | 42 | 40 | 37 |
| 5   | 76  | 66  | 59  | 54  | 70 | 62 | 56 | 52 | 55 | 50 | 47 |  | 48 | 44 | 42 |  | 41 | 39 | 37 | 34 |
| 6   | 71  | 61  | 54  | 49  | 66 | 57 | 51 | 47 | 51 | 46 | 43 |  | 45 | 41 | 39 |  | 39 | 37 | 35 | 32 |
| 7   | 67  | 56  | 50  | 45  | 62 | 53 | 47 | 43 | 47 | 43 | 40 |  | 42 | 39 | 36 |  | 37 | 34 | 33 | 30 |
| 8   | 63  | 52  | 46  | 41  | 59 | 50 | 44 | 40 | 45 | 40 | 37 |  | 40 | 36 | 34 |  | 35 | 33 | 31 | 29 |
| 9   | 59  | 49  | 43  | 38  | 56 | 47 | 41 | 37 | 42 | 37 | 34 |  | 38 | 34 | 32 |  | 33 | 31 | 29 | 27 |
| 10  | 56  | 46  | 40  | 36  | 53 | 44 | 38 | 35 | 40 | 35 | 32 |  | 36 | 32 | 30 |  | 32 | 29 | 28 | 26 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 387469 |
| 5°  | 387254 |
| 10° | 363387 |
| 15° | 312556 |
| 20° | 268427 |
| 25° | 165300 |
| 30° | 82519  |
| 35° | 57848  |
| 40° | 40218  |
| 45° | 25801  |
| 50° | 20980  |
| 55° | 21371  |
| 60° | 21753  |
| 65° | 21066  |
| 70° | 18849  |
| 75° | 17792  |
| 80° | 19447  |
| 85° | 19373  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 164.1  | 6.9       |
| 10°-20°   | 385.3  | 16.2      |
| 20°-30°   | 312.7  | 13.1      |
| 30°-40°   | 138.3  | 5.8       |
| 40°-50°   | 69.3   | 2.9       |
| 50°-60°   | 49.8   | 2.1       |
| 60°-70°   | 39.5   | 1.7       |
| 70°-80°   | 22.5   | 0.9       |
| 80°-90°   | 8.4    | 0.4       |
| 90°-100°  | 8.4    | 0.4       |
| 100°-110° | 22.5   | 0.9       |
| 110°-120° | 39.5   | 1.7       |
| 120°-130° | 49.8   | 2.1       |
| 130°-140° | 69.3   | 2.9       |
| 140°-150° | 138.3  | 5.8       |
| 150°-160° | 312.7  | 13.1      |
| 160°-170° | 385.3  | 16.2      |
| 170°-180° | 164.1  | 6.9       |
| 0°-30°    | 862.1  | 36.2      |
| 0°-40°    | 1000.4 | 42.0      |
| 0°-60°    | 1119.5 | 47.0      |
| 0°-90°    | 1189.9 | 50.0      |
| 90°-120°  | 70.5   | 3.0       |
| 90°-150°  | 327.9  | 13.8      |
| 90°-180°  | 1190.0 | 50.0      |
| 0°-180°   | 2379.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 1767 |      |
| 5°   | 1759 | 164  |
| 15°  | 1377 | 385  |
| 25°  | 683  | 313  |
| 35°  | 216  | 138  |
| 45°  | 83   | 69   |
| 55°  | 56   | 50   |
| 65°  | 41   | 40   |
| 75°  | 21   | 23   |
| 85°  | 8    | 8    |
| 90°  | 0    | 1    |
| 95°  | 8    | 8    |
| 105° | 21   | 23   |
| 115° | 41   | 40   |
| 125° | 56   | 50   |
| 135° | 83   | 69   |
| 145° | 216  | 138  |
| 155° | 683  | 313  |
| 165° | 1377 | 385  |
| 175° | 1759 | 164  |
| 180° | 1767 |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1767.0 |
| 1°    | 1762.1 |
| 2°    | 1760.7 |
| 3°    | 1763.5 |
| 4°    | 1763.5 |
| 5°    | 1759.3 |
| 6°    | 1750.2 |
| 7°    | 1732.0 |
| 8°    | 1705.5 |
| 9°    | 1671.2 |
| 10°   | 1632.0 |
| 11°   | 1586.6 |
| 12°   | 1536.3 |
| 13°   | 1481.7 |
| 14°   | 1427.9 |
| 15°   | 1376.8 |
| 16°   | 1332.8 |
| 17°   | 1286.6 |
| 18°   | 1240.5 |
| 19°   | 1194.3 |
| 20°   | 1150.3 |
| 21°   | 1099.2 |
| 22°   | 1018.8 |
| 23°   | 915.3  |
| 24°   | 802.0  |
| 25°   | 683.2  |
| 26°   | 571.3  |
| 27°   | 472.0  |
| 28°   | 396.5  |
| 29°   | 353.1  |
| 30°   | 325.9  |
| 32.5° | 267.1  |
| 35°   | 216.1  |
| 37.5° | 178.3  |
| 40°   | 140.5  |
| 42.5° | 111.2  |
| 45°   | 83.2   |
| 47.5° | 67.1   |
| 50°   | 61.5   |
| 52.5° | 58.7   |
| 55°   | 55.9   |
| 57.5° | 52.4   |
| 60°   | 49.6   |
| 62.5° | 45.5   |
| 65°   | 40.6   |



TEST NUMBER: P221416

CATALOG NUMBER: 9003-W2-[RW, RI]-LED2797-W-WT-L2-UNV

**CANDELA DISTRIBUTION (continued):**

|        | 0°     |
|--------|--------|
| 67.5°  | 34.3   |
| 70°    | 29.4   |
| 72.5°  | 23.8   |
| 75°    | 21.0   |
| 77.5°  | 18.2   |
| 80°    | 15.4   |
| 82.5°  | 11.9   |
| 85°    | 7.7    |
| 87.5°  | 3.5    |
| 90°    | 0.0    |
| 92.5°  | 3.5    |
| 95°    | 7.7    |
| 97.5°  | 11.9   |
| 100°   | 15.4   |
| 102.5° | 18.2   |
| 105°   | 21.0   |
| 107.5° | 23.8   |
| 110°   | 29.4   |
| 112.5° | 34.3   |
| 115°   | 40.6   |
| 117.5° | 45.5   |
| 120°   | 49.6   |
| 122.5° | 52.4   |
| 125°   | 55.9   |
| 127.5° | 58.7   |
| 130°   | 61.5   |
| 132.5° | 67.1   |
| 135°   | 83.2   |
| 137.5° | 111.2  |
| 140°   | 140.5  |
| 142.5° | 178.3  |
| 145°   | 216.1  |
| 147.5° | 267.1  |
| 150°   | 325.9  |
| 151°   | 353.1  |
| 152°   | 396.5  |
| 153°   | 472.0  |
| 154°   | 571.3  |
| 155°   | 683.2  |
| 156°   | 802.0  |
| 157°   | 915.3  |
| 158°   | 1018.8 |
| 159°   | 1099.2 |
| 160°   | 1150.3 |
| 161°   | 1194.3 |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°     |
|------|--------|
| 162° | 1240.5 |
| 163° | 1286.6 |
| 164° | 1332.8 |
| 165° | 1376.8 |
| 166° | 1427.9 |
| 167° | 1481.7 |
| 168° | 1536.3 |
| 169° | 1586.6 |
| 170° | 1632.0 |
| 171° | 1671.2 |
| 172° | 1705.5 |
| 173° | 1732.0 |
| 174° | 1750.2 |
| 175° | 1759.3 |
| 176° | 1763.5 |
| 177° | 1763.5 |
| 178° | 1760.7 |
| 179° | 1762.1 |
| 180° | 1767.0 |

(END OF REPORT)