

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: P221500

Luminaire Tested: **9003-W2-[RW, RI]-LED4097-F-WT-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29470)  
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]-LED4097-F-WT-L2-UNV  
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2977.4 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.56  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: General Diffuse

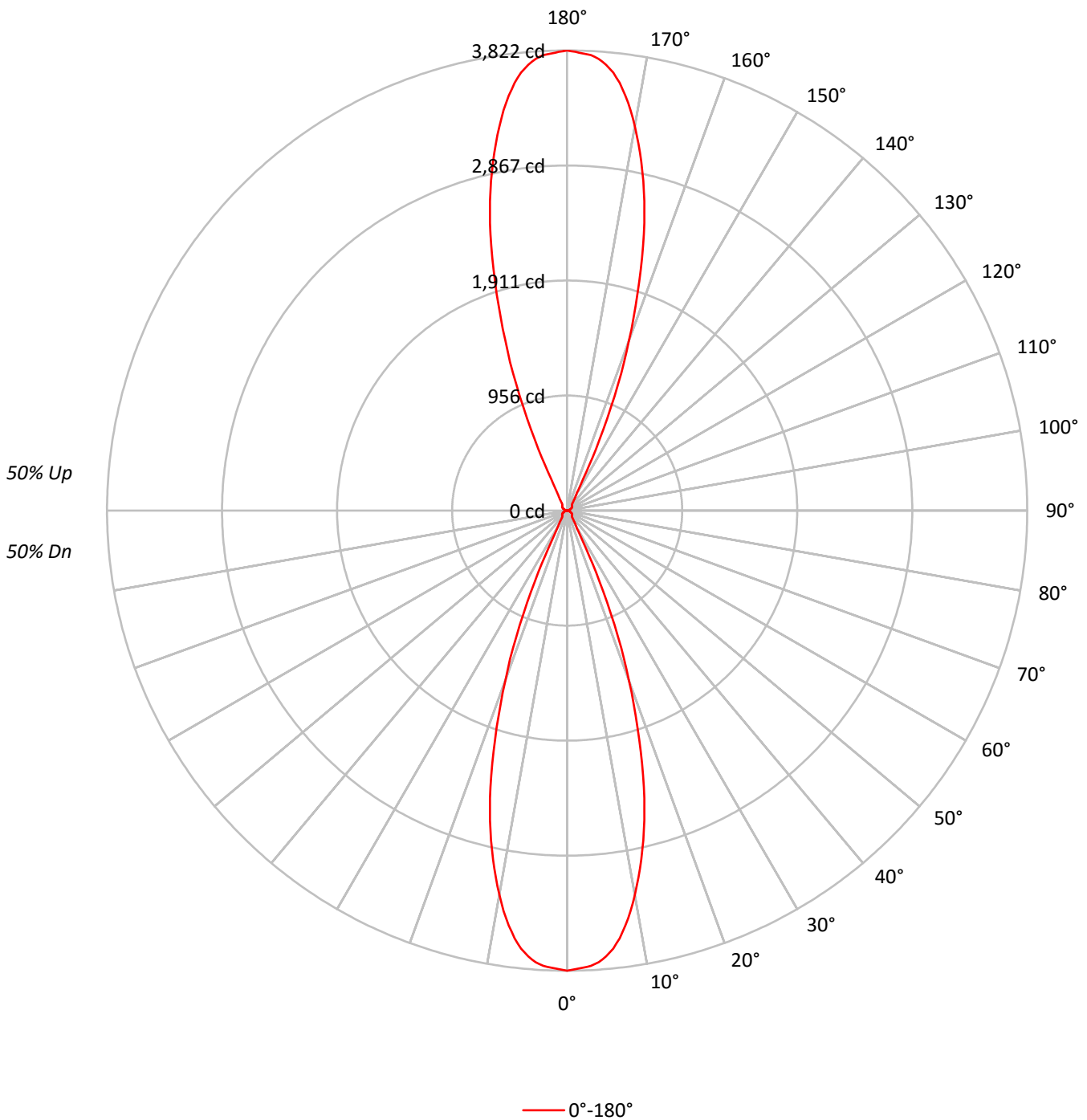
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 97  | 94  | 91  | 93 | 90 | 87 | 85 | 77 | 75 | 73 | 65 | 63 | 62 | 53 | 53 | 52 | 47 |
| 2   | 94  | 88  | 84  | 80  | 87 | 82 | 78 | 75 | 71 | 68 | 66 | 60 | 59 | 57 | 51 | 50 | 49 | 44 |
| 3   | 88  | 81  | 75  | 71  | 82 | 76 | 71 | 67 | 66 | 63 | 60 | 57 | 55 | 53 | 48 | 47 | 46 | 42 |
| 4   | 83  | 75  | 69  | 64  | 77 | 70 | 65 | 61 | 62 | 58 | 55 | 54 | 51 | 49 | 46 | 45 | 43 | 40 |
| 5   | 78  | 69  | 63  | 58  | 73 | 65 | 60 | 56 | 58 | 54 | 51 | 51 | 48 | 46 | 44 | 43 | 41 | 38 |
| 6   | 74  | 64  | 58  | 54  | 69 | 61 | 56 | 52 | 54 | 50 | 47 | 48 | 45 | 43 | 43 | 41 | 39 | 37 |
| 7   | 70  | 60  | 54  | 50  | 66 | 57 | 52 | 48 | 52 | 47 | 45 | 46 | 43 | 41 | 41 | 39 | 37 | 35 |
| 8   | 66  | 57  | 51  | 47  | 62 | 54 | 49 | 45 | 49 | 45 | 42 | 44 | 41 | 39 | 40 | 37 | 36 | 34 |
| 9   | 63  | 54  | 48  | 44  | 60 | 51 | 46 | 42 | 47 | 43 | 40 | 42 | 39 | 37 | 38 | 36 | 35 | 33 |
| 10  | 60  | 51  | 45  | 41  | 57 | 49 | 44 | 40 | 45 | 41 | 38 | 41 | 38 | 36 | 37 | 35 | 33 | 32 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 838047 |
| 5°  | 818202 |
| 10° | 721741 |
| 15° | 561615 |
| 20° | 350801 |
| 25° | 136968 |
| 30° | 37348  |
| 35° | 21870  |
| 40° | 17490  |
| 45° | 17707  |
| 50° | 18660  |
| 55° | 19115  |
| 60° | 18770  |
| 65° | 17278  |
| 70° | 14746  |
| 75° | 13471  |
| 80° | 15027  |
| 85° | 14089  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 339.7  | 11.4      |
| 10°-20°   | 663.0  | 22.3      |
| 20°-30°   | 284.4  | 9.6       |
| 30°-40°   | 56.1   | 1.9       |
| 40°-50°   | 44.5   | 1.5       |
| 50°-60°   | 44.3   | 1.5       |
| 60°-70°   | 32.8   | 1.1       |
| 70°-80°   | 17.6   | 0.6       |
| 80°-90°   | 6.2    | 0.2       |
| 90°-100°  | 6.2    | 0.2       |
| 100°-110° | 17.6   | 0.6       |
| 110°-120° | 32.8   | 1.1       |
| 120°-130° | 44.3   | 1.5       |
| 130°-140° | 44.5   | 1.5       |
| 140°-150° | 56.1   | 1.9       |
| 150°-160° | 284.4  | 9.6       |
| 160°-170° | 663.0  | 22.3      |
| 170°-180° | 339.7  | 11.4      |
| 0°-30°    | 1287.2 | 43.2      |
| 0°-40°    | 1343.3 | 45.1      |
| 0°-60°    | 1432.1 | 48.1      |
| 0°-90°    | 1488.7 | 50.0      |
| 90°-120°  | 56.6   | 1.9       |
| 90°-150°  | 201.5  | 6.8       |
| 90°-180°  | 1489.0 | 50.0      |
| 0°-180°   | 2977.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 3822 |      |
| 5°   | 3717 | 340  |
| 15°  | 2474 | 663  |
| 25°  | 566  | 284  |
| 35°  | 82   | 56   |
| 45°  | 57   | 44   |
| 55°  | 50   | 44   |
| 65°  | 33   | 33   |
| 75°  | 16   | 18   |
| 85°  | 6    | 6    |
| 90°  | 0    | 1    |
| 95°  | 6    | 6    |
| 105° | 16   | 18   |
| 115° | 33   | 33   |
| 125° | 50   | 44   |
| 135° | 57   | 44   |
| 145° | 82   | 56   |
| 155° | 566  | 284  |
| 165° | 2474 | 663  |
| 175° | 3717 | 340  |
| 180° | 3822 |      |



TEST NUMBER: P221500

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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3821.8 |
| 1°    | 3810.7 |
| 2°    | 3798.8 |
| 3°    | 3787.7 |
| 4°    | 3761.5 |
| 5°    | 3717.1 |
| 6°    | 3657.7 |
| 7°    | 3580.0 |
| 8°    | 3480.8 |
| 9°    | 3369.0 |
| 10°   | 3241.4 |
| 11°   | 3105.0 |
| 12°   | 2963.1 |
| 13°   | 2809.3 |
| 14°   | 2647.5 |
| 15°   | 2473.9 |
| 16°   | 2288.3 |
| 17°   | 2093.3 |
| 18°   | 1891.9 |
| 19°   | 1694.4 |
| 20°   | 1503.3 |
| 21°   | 1321.8 |
| 22°   | 1126.7 |
| 23°   | 926.9  |
| 24°   | 736.6  |
| 25°   | 566.1  |
| 26°   | 417.9  |
| 27°   | 295.8  |
| 28°   | 210.9  |
| 29°   | 167.3  |
| 30°   | 147.5  |
| 32.5° | 111.8  |
| 35°   | 81.7   |
| 37.5° | 66.6   |
| 40°   | 61.1   |
| 42.5° | 58.7   |
| 45°   | 57.1   |
| 47.5° | 56.3   |
| 50°   | 54.7   |
| 52.5° | 52.3   |
| 55°   | 50.0   |
| 57.5° | 46.8   |
| 60°   | 42.8   |
| 62.5° | 38.9   |
| 65°   | 33.3   |



TEST NUMBER: P221500

CATALOG NUMBER: 9003-W2-[RW, RI]-LED4097-F-WT-L2-UNV

**CANDELA DISTRIBUTION (continued):**

|        | 0°     |
|--------|--------|
| 67.5°  | 27.8   |
| 70°    | 23.0   |
| 72.5°  | 19.0   |
| 75°    | 15.9   |
| 77.5°  | 14.3   |
| 80°    | 11.9   |
| 82.5°  | 8.7    |
| 85°    | 5.6    |
| 87.5°  | 2.4    |
| 90°    | 0.0    |
| 92.5°  | 2.4    |
| 95°    | 5.6    |
| 97.5°  | 8.7    |
| 100°   | 11.9   |
| 102.5° | 14.3   |
| 105°   | 15.9   |
| 107.5° | 19.0   |
| 110°   | 23.0   |
| 112.5° | 27.8   |
| 115°   | 33.3   |
| 117.5° | 38.9   |
| 120°   | 42.8   |
| 122.5° | 46.8   |
| 125°   | 50.0   |
| 127.5° | 52.3   |
| 130°   | 54.7   |
| 132.5° | 56.3   |
| 135°   | 57.1   |
| 137.5° | 58.7   |
| 140°   | 61.1   |
| 142.5° | 66.6   |
| 145°   | 81.7   |
| 147.5° | 111.8  |
| 150°   | 147.5  |
| 151°   | 167.3  |
| 152°   | 210.9  |
| 153°   | 295.8  |
| 154°   | 417.9  |
| 155°   | 566.1  |
| 156°   | 736.6  |
| 157°   | 926.9  |
| 158°   | 1126.7 |
| 159°   | 1321.8 |
| 160°   | 1503.3 |
| 161°   | 1694.4 |



TEST NUMBER: P221500

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**CANDELA DISTRIBUTION (continued):**

|      | 0°     |
|------|--------|
| 162° | 1891.9 |
| 163° | 2093.3 |
| 164° | 2288.3 |
| 165° | 2473.9 |
| 166° | 2647.5 |
| 167° | 2809.3 |
| 168° | 2963.1 |
| 169° | 3105.0 |
| 170° | 3241.4 |
| 171° | 3369.0 |
| 172° | 3480.8 |
| 173° | 3580.0 |
| 174° | 3657.7 |
| 175° | 3717.1 |
| 176° | 3761.5 |
| 177° | 3787.7 |
| 178° | 3798.8 |
| 179° | 3810.7 |
| 180° | 3821.8 |

(END OF REPORT)