

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: P221290

Luminaire Tested: **9002-W2-[RW, RI]-LEDCEB-F-WT-LC1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29544)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W2-[RW, RI]-LEDCB-F-WT-LC1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) COLOR CHAGING MODULE, SET TO 3500K CCT, 90 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 977.4 lumens  
Efficiency: N/A  
Efficacy: 34.2 lumens/watt  
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.58  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: General Diffuse

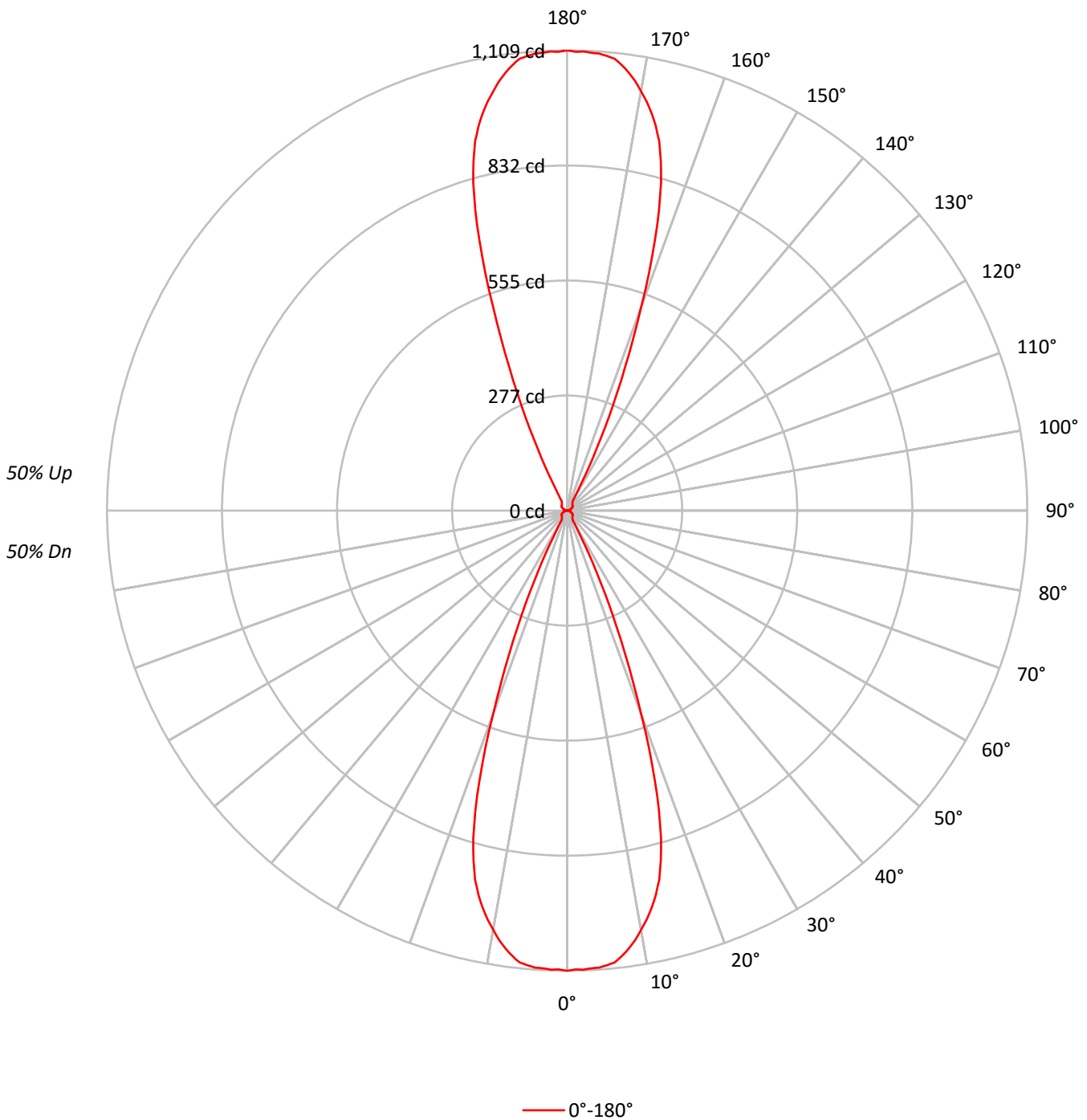
Input Watts (W): 28.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |  | 64 | 63 | 62 |  | 53 | 53 | 52 | 47 |
| 2   | 94  | 88  | 83  | 79  | 87 | 82 | 78 | 75 | 71 | 68 | 66 |  | 60 | 59 | 57 |  | 51 | 50 | 49 | 44 |
| 3   | 88  | 81  | 75  | 71  | 82 | 76 | 71 | 67 | 66 | 62 | 60 |  | 57 | 54 | 53 |  | 48 | 47 | 46 | 42 |
| 4   | 83  | 74  | 68  | 64  | 77 | 70 | 65 | 61 | 61 | 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 | 42 | 41 | 38 |
| 6   | 74  | 64  | 58  | 54  | 69 | 61 | 55 | 51 | 54 | 50 | 47 |  | 48 | 45 | 43 |  | 43 | 41 | 39 | 37 |
| 7   | 70  | 60  | 54  | 50  | 65 | 57 | 52 | 48 | 51 | 47 | 44 |  | 46 | 43 | 41 |  | 41 | 39 | 37 | 35 |
| 8   | 66  | 57  | 51  | 46  | 62 | 54 | 49 | 45 | 49 | 45 | 42 |  | 44 | 41 | 39 |  | 39 | 37 | 36 | 34 |
| 9   | 63  | 54  | 48  | 44  | 59 | 51 | 46 | 42 | 46 | 42 | 40 |  | 42 | 39 | 37 |  | 38 | 36 | 34 | 33 |
| 10  | 60  | 51  | 45  | 41  | 57 | 49 | 43 | 40 | 44 | 40 | 38 |  | 40 | 37 | 35 |  | 37 | 35 | 33 | 31 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 547158 |
| 5°  | 544791 |
| 10° | 514016 |
| 15° | 445915 |
| 20° | 274598 |
| 25° | 103433 |
| 30° | 15952  |
| 35° | 13251  |
| 40° | 12881  |
| 45° | 12559  |
| 50° | 13049  |
| 55° | 13763  |
| 60° | 13815  |
| 65° | 12842  |
| 70° | 11540  |
| 75° | 13344  |
| 80° | 14206  |
| 85° | 11322  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 102.7  | 10.5      |
| 10°-20°   | 229.6  | 23.5      |
| 20°-30°   | 93.5   | 9.6       |
| 30°-40°   | 14.2   | 1.5       |
| 40°-50°   | 14.2   | 1.5       |
| 50°-60°   | 14.0   | 1.4       |
| 60°-70°   | 10.6   | 1.1       |
| 70°-80°   | 7.3    | 0.7       |
| 80°-90°   | 2.6    | 0.3       |
| 90°-100°  | 2.6    | 0.3       |
| 100°-110° | 7.3    | 0.7       |
| 110°-120° | 10.6   | 1.1       |
| 120°-130° | 14.0   | 1.4       |
| 130°-140° | 14.2   | 1.5       |
| 140°-150° | 14.2   | 1.5       |
| 150°-160° | 93.5   | 9.6       |
| 160°-170° | 229.6  | 23.5      |
| 170°-180° | 102.7  | 10.5      |
| 0°-30°    | 425.8  | 43.6      |
| 0°-40°    | 440.0  | 45.0      |
| 0°-60°    | 468.2  | 47.9      |
| 0°-90°    | 488.7  | 50.0      |
| 90°-120°  | 20.5   | 2.1       |
| 90°-150°  | 62.9   | 6.4       |
| 90°-180°  | 489.0  | 50.0      |
| 0°-180°   | 977.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 1109 |      |
| 5°   | 1100 | 103  |
| 15°  | 873  | 230  |
| 25°  | 190  | 94   |
| 35°  | 22   | 14   |
| 45°  | 18   | 14   |
| 55°  | 16   | 14   |
| 65°  | 11   | 11   |
| 75°  | 7    | 7    |
| 85°  | 2    | 2    |
| 90°  | 0    | 0    |
| 95°  | 2    | 2    |
| 105° | 7    | 7    |
| 115° | 11   | 11   |
| 125° | 16   | 14   |
| 135° | 18   | 14   |
| 145° | 22   | 14   |
| 155° | 190  | 94   |
| 165° | 873  | 230  |
| 175° | 1100 | 103  |
| 180° | 1109 |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |      |
|-------|------|
| 0°    | 1109 |
| 1°    | 1106 |
| 2°    | 1107 |
| 3°    | 1105 |
| 4°    | 1104 |
| 5°    | 1100 |
| 6°    | 1095 |
| 7°    | 1082 |
| 8°    | 1066 |
| 9°    | 1048 |
| 10°   | 1026 |
| 11°   | 1004 |
| 12°   | 979  |
| 13°   | 950  |
| 14°   | 917  |
| 15°   | 873  |
| 16°   | 821  |
| 17°   | 757  |
| 18°   | 685  |
| 19°   | 605  |
| 20°   | 523  |
| 21°   | 445  |
| 22°   | 373  |
| 23°   | 307  |
| 24°   | 247  |
| 25°   | 190  |
| 26°   | 140  |
| 27°   | 97   |
| 28°   | 63   |
| 29°   | 40   |
| 30°   | 28   |
| 32.5° | 24   |
| 35°   | 22   |
| 37.5° | 21   |
| 40°   | 20   |
| 42.5° | 19   |
| 45°   | 18   |
| 47.5° | 18   |
| 50°   | 17   |
| 52.5° | 16   |
| 55°   | 16   |
| 57.5° | 15   |
| 60°   | 14   |
| 62.5° | 12   |
| 65°   | 11   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  |
|--------|-----|
| 67.5°  | 9   |
| 70°    | 8   |
| 72.5°  | 8   |
| 75°    | 7   |
| 77.5°  | 6   |
| 80°    | 5   |
| 82.5°  | 4   |
| 85°    | 2   |
| 87.5°  | 1   |
| 90°    | 0   |
| 92.5°  | 1   |
| 95°    | 2   |
| 97.5°  | 4   |
| 100°   | 5   |
| 102.5° | 6   |
| 105°   | 7   |
| 107.5° | 8   |
| 110°   | 8   |
| 112.5° | 9   |
| 115°   | 11  |
| 117.5° | 12  |
| 120°   | 14  |
| 122.5° | 15  |
| 125°   | 16  |
| 127.5° | 16  |
| 130°   | 17  |
| 132.5° | 18  |
| 135°   | 18  |
| 137.5° | 19  |
| 140°   | 20  |
| 142.5° | 21  |
| 145°   | 22  |
| 147.5° | 24  |
| 150°   | 28  |
| 151°   | 40  |
| 152°   | 63  |
| 153°   | 97  |
| 154°   | 140 |
| 155°   | 190 |
| 156°   | 247 |
| 157°   | 307 |
| 158°   | 373 |
| 159°   | 445 |
| 160°   | 523 |
| 161°   | 605 |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°   |
|------|------|
| 162° | 685  |
| 163° | 757  |
| 164° | 821  |
| 165° | 873  |
| 166° | 917  |
| 167° | 950  |
| 168° | 979  |
| 169° | 1004 |
| 170° | 1026 |
| 171° | 1048 |
| 172° | 1066 |
| 173° | 1082 |
| 174° | 1095 |
| 175° | 1100 |
| 176° | 1104 |
| 177° | 1105 |
| 178° | 1107 |
| 179° | 1106 |
| 180° | 1109 |

(END OF REPORT)