

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: P220681

Luminaire Tested: **9003-W1-FL-LED3097-F-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29478)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9003-W1-FL-LED3097-F-BK-L1-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

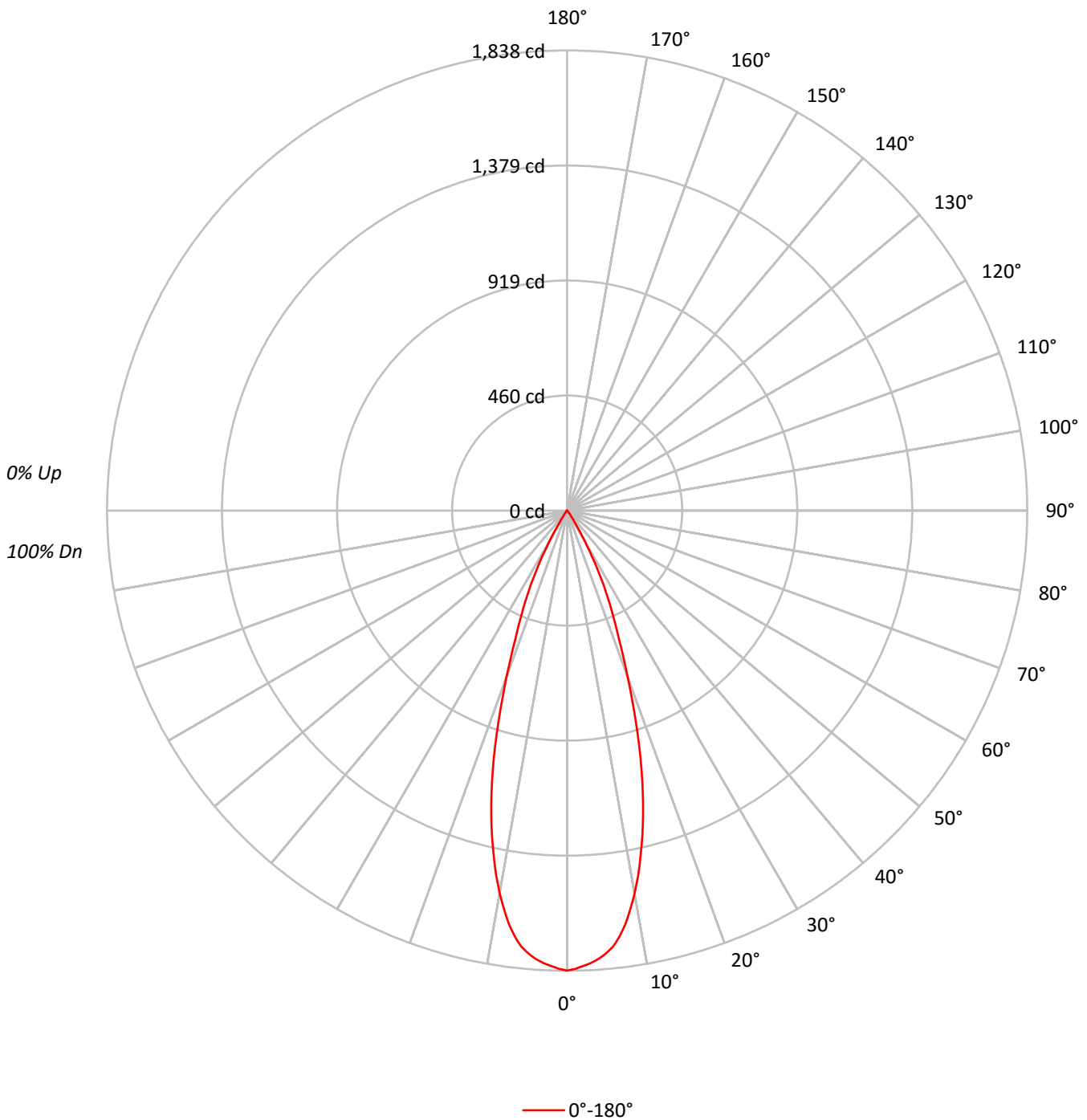
Lumens per Lamp: N/A
Luminaire Lumens: 684.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 104 | | 103 | 101 | 100 | | 99 | 98 | 98 | 96 |
| 2 | 110 | 107 | 103 | 101 | 108 | 105 | 102 | 100 | 102 | 99 | 97 | | 99 | 97 | 95 | | 96 | 95 | 93 | 92 |
| 3 | 107 | 101 | 98 | 94 | 105 | 100 | 97 | 94 | 98 | 95 | 92 | | 95 | 93 | 91 | | 93 | 91 | 89 | 88 |
| 4 | 103 | 97 | 93 | 89 | 101 | 96 | 92 | 89 | 94 | 90 | 88 | | 92 | 89 | 87 | | 90 | 88 | 86 | 85 |
| 5 | 99 | 93 | 88 | 85 | 98 | 92 | 88 | 85 | 90 | 87 | 84 | | 89 | 86 | 83 | | 87 | 85 | 82 | 81 |
| 6 | 96 | 89 | 84 | 81 | 95 | 88 | 84 | 81 | 87 | 83 | 80 | | 86 | 82 | 80 | | 84 | 82 | 79 | 78 |
| 7 | 93 | 85 | 81 | 78 | 91 | 85 | 81 | 77 | 84 | 80 | 77 | | 83 | 79 | 77 | | 82 | 79 | 76 | 75 |
| 8 | 90 | 82 | 78 | 75 | 89 | 82 | 77 | 74 | 81 | 77 | 74 | | 80 | 76 | 74 | | 79 | 76 | 74 | 73 |
| 9 | 87 | 79 | 75 | 72 | 86 | 79 | 75 | 72 | 78 | 74 | 71 | | 77 | 74 | 71 | | 77 | 73 | 71 | 70 |
| 10 | 84 | 77 | 72 | 69 | 83 | 76 | 72 | 69 | 75 | 72 | 69 | | 75 | 71 | 69 | | 74 | 71 | 69 | 68 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 402950 |
| 5° | 391018 |
| 10° | 345685 |
| 15° | 265450 |
| 20° | 165238 |
| 25° | 93175 |
| 30° | 35373 |
| 35° | 7576 |
| 40° | 2948 |
| 45° | 961 |
| 50° | 785 |
| 55° | 573 |
| 60° | 482 |
| 65° | 571 |
| 70° | 513 |
| 75° | 678 |
| 80° | 505 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 162.6 | 23.8 |
| 10°-20° | 313.8 | 45.9 |
| 20°-30° | 175.0 | 25.6 |
| 30°-40° | 26.4 | 3.9 |
| 40°-50° | 2.9 | 0.4 |
| 50°-60° | 1.5 | 0.2 |
| 60°-70° | 1.0 | 0.1 |
| 70°-80° | 0.7 | 0.1 |
| 80°-90° | 0.2 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 651.3 | 95.2 |
| 0°-40° | 677.8 | 99.1 |
| 0°-60° | 682.2 | 99.7 |
| 0°-90° | 684.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 684.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1838 | |
| 5° | 1776 | 163 |
| 15° | 1169 | 314 |
| 25° | 385 | 175 |
| 35° | 28 | 26 |
| 45° | 3 | 3 |
| 55° | 2 | 1 |
| 65° | 1 | 1 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1837.6 |
| 1° | 1831.1 |
| 2° | 1820.4 |
| 3° | 1809.3 |
| 4° | 1795.1 |
| 5° | 1776.4 |
| 6° | 1751.1 |
| 7° | 1714.8 |
| 8° | 1668.1 |
| 9° | 1612.9 |
| 10° | 1552.5 |
| 11° | 1484.7 |
| 12° | 1411.2 |
| 13° | 1335.1 |
| 14° | 1253.5 |
| 15° | 1169.3 |
| 16° | 1078.2 |
| 17° | 984.1 |
| 18° | 888.4 |
| 19° | 796.9 |
| 20° | 708.1 |
| 21° | 625.8 |
| 22° | 553.1 |
| 23° | 491.8 |
| 24° | 438.6 |
| 25° | 385.1 |
| 26° | 332.6 |
| 27° | 281.7 |
| 28° | 232.3 |
| 29° | 184.9 |
| 30° | 139.7 |
| 32.5° | 55.9 |
| 35° | 28.3 |
| 37.5° | 17.6 |
| 40° | 10.3 |
| 42.5° | 3.8 |
| 45° | 3.1 |
| 47.5° | 2.3 |
| 50° | 2.3 |
| 52.5° | 1.9 |
| 55° | 1.5 |
| 57.5° | 1.5 |
| 60° | 1.1 |
| 62.5° | 1.1 |
| 65° | 1.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 0.8 |
| 70° | 0.8 |
| 72.5° | 0.8 |
| 75° | 0.8 |
| 77.5° | 0.4 |
| 80° | 0.4 |
| 82.5° | 0.4 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)