

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: P220414

Luminaire Tested: **9002-W1-FL-LED3097-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29422)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W1-FL-LED3097-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 761.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.36
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

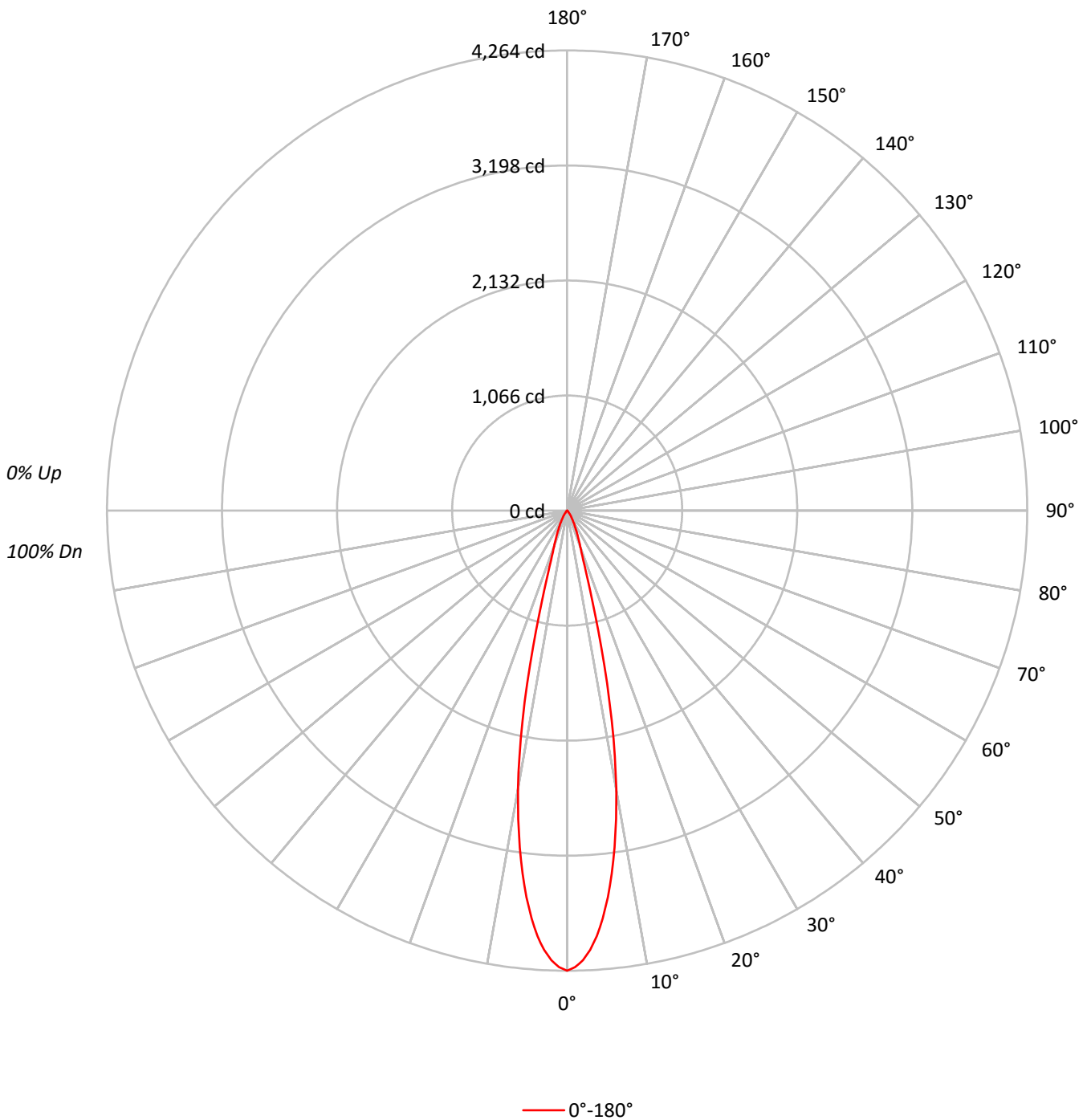
Input Watts (W): 10
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | |
| 1 | 115 | 113 | 111 | 110 | 113 | 111 | 109 | 108 | 107 | 106 | 105 | 103 | 102 | 102 | 100 | 99 | 99 | 97 | 97 | 97 | 97 | |
| 2 | 112 | 108 | 105 | 103 | 110 | 106 | 104 | 102 | 103 | 101 | 100 | 101 | 99 | 97 | 98 | 97 | 95 | 94 | 94 | 94 | 94 | |
| 3 | 108 | 104 | 100 | 98 | 107 | 103 | 99 | 97 | 100 | 97 | 95 | 98 | 96 | 94 | 96 | 94 | 93 | 91 | 91 | 91 | 91 | |
| 4 | 105 | 100 | 96 | 93 | 104 | 99 | 96 | 93 | 97 | 94 | 92 | 95 | 93 | 91 | 94 | 91 | 90 | 89 | 89 | 89 | 89 | |
| 5 | 102 | 97 | 93 | 90 | 101 | 96 | 92 | 89 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 86 | 86 | 86 | 86 | |
| 6 | 100 | 94 | 90 | 87 | 98 | 93 | 89 | 87 | 92 | 88 | 86 | 90 | 88 | 85 | 89 | 87 | 85 | 84 | 84 | 84 | 84 | |
| 7 | 97 | 91 | 87 | 84 | 96 | 90 | 87 | 84 | 89 | 86 | 84 | 88 | 85 | 83 | 87 | 85 | 83 | 82 | 82 | 82 | 82 | |
| 8 | 95 | 88 | 84 | 82 | 94 | 88 | 84 | 82 | 87 | 84 | 81 | 86 | 83 | 81 | 85 | 83 | 81 | 80 | 80 | 80 | 80 | |
| 9 | 92 | 86 | 82 | 80 | 92 | 86 | 82 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 84 | 81 | 79 | 78 | 78 | 78 | 78 | |
| 10 | 90 | 84 | 80 | 78 | 90 | 84 | 80 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 82 | 79 | 77 | 76 | 76 | 76 | 76 | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 2103672 |
| 5° | 1878339 |
| 10° | 1312495 |
| 15° | 513798 |
| 20° | 185393 |
| 25° | 103868 |
| 30° | 58566 |
| 35° | 30718 |
| 40° | 10949 |
| 45° | 5931 |
| 50° | 3531 |
| 55° | 1978 |
| 60° | 1480 |
| 65° | 934 |
| 70° | 1154 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 324.0 | 42.6 |
| 10°-20° | 303.4 | 39.9 |
| 20°-30° | 91.0 | 12.0 |
| 30°-40° | 32.1 | 4.2 |
| 40°-50° | 7.2 | 0.9 |
| 50°-60° | 2.2 | 0.3 |
| 60°-70° | 0.9 | 0.1 |
| 70°-80° | 0.1 | 0.0 |
| 80°-90° | 0.0 | 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° | 718.5 | 94.4 |
| 0°-40° | 750.6 | 98.6 |
| 0°-60° | 760.0 | 99.9 |
| 0°-90° | 761.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 761.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4264 | |
| 5° | 3793 | 324 |
| 15° | 1006 | 303 |
| 25° | 191 | 91 |
| 35° | 51 | 32 |
| 45° | 8 | 7 |
| 55° | 2 | 2 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 4263.8 |
| 1° | 4232.2 |
| 2° | 4169.6 |
| 3° | 4077.7 |
| 4° | 3953.3 |
| 5° | 3792.6 |
| 6° | 3601.7 |
| 7° | 3389.3 |
| 8° | 3152.1 |
| 9° | 2894.1 |
| 10° | 2619.8 |
| 11° | 2319.3 |
| 12° | 1988.6 |
| 13° | 1640.9 |
| 14° | 1301.0 |
| 15° | 1005.9 |
| 16° | 769.5 |
| 17° | 598.7 |
| 18° | 484.4 |
| 19° | 407.1 |
| 20° | 353.1 |
| 22.5° | 258.8 |
| 25° | 190.8 |
| 26° | 168.4 |
| 27° | 149.1 |
| 28° | 132.1 |
| 29° | 116.7 |
| 30° | 102.8 |
| 32.5° | 74.2 |
| 35° | 51.0 |
| 37.5° | 26.3 |
| 40° | 17.0 |
| 42.5° | 12.4 |
| 45° | 8.5 |
| 47.5° | 6.2 |
| 50° | 4.6 |
| 52.5° | 3.1 |
| 55° | 2.3 |
| 57.5° | 1.5 |
| 60° | 1.5 |
| 62.5° | 0.8 |
| 65° | 0.8 |
| 67.5° | 0.8 |
| 70° | 0.8 |
| 72.5° | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)