

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: P221112

Luminaire Tested: **9004-W1-FL-LED3090-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W1-FL-LED3090-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1718.8 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

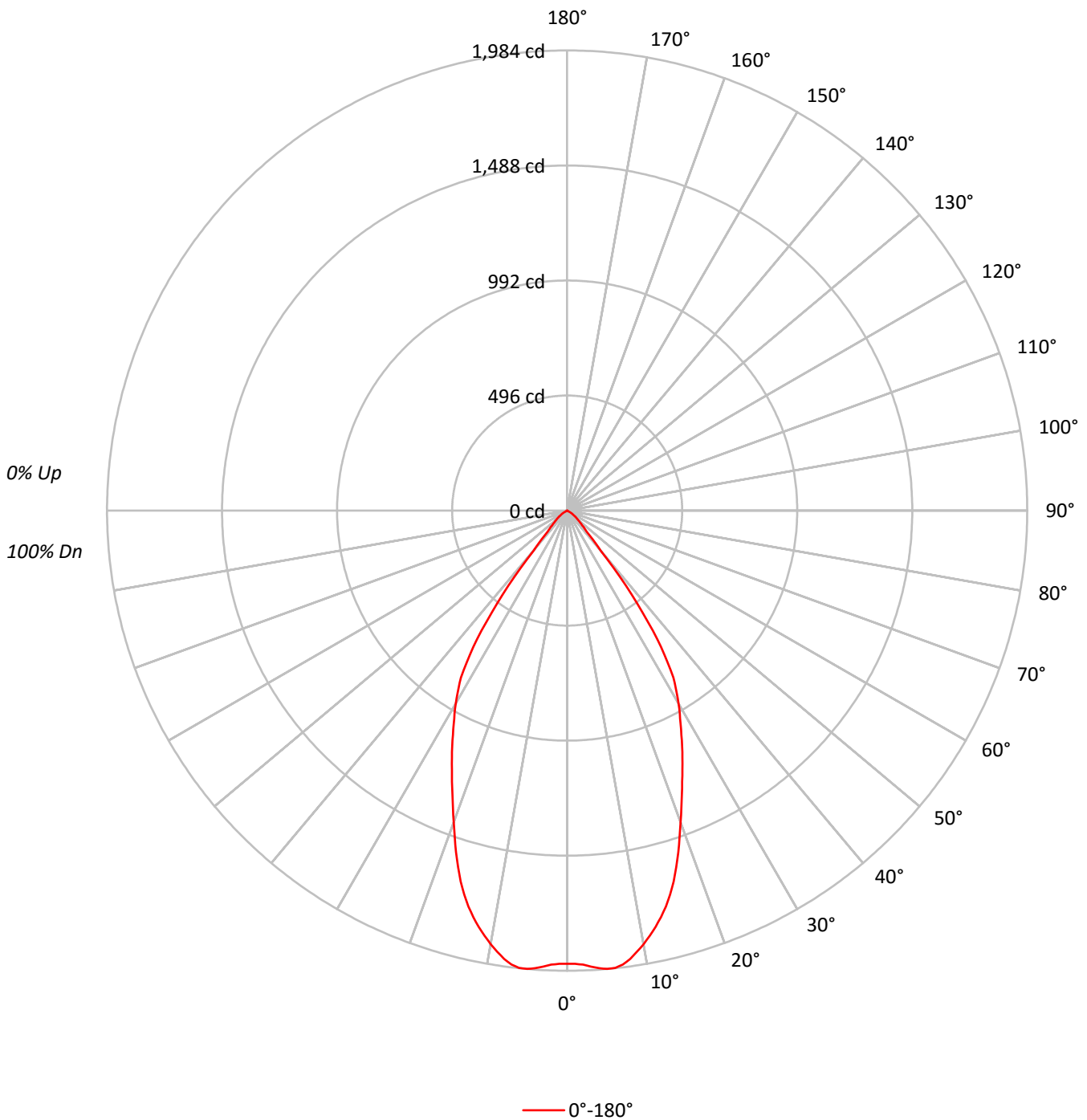
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | | 101 | 99 | 98 | | 97 | 96 | 95 | 94 |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 98 | 95 | 92 | | 95 | 93 | 90 | | 92 | 90 | 89 | 87 |
| 3 | 102 | 96 | 91 | 87 | 100 | 95 | 90 | 86 | 92 | 88 | 85 | | 90 | 86 | 84 | | 87 | 85 | 82 | 81 |
| 4 | 97 | 90 | 84 | 80 | 95 | 89 | 83 | 79 | 86 | 82 | 79 | | 84 | 81 | 78 | | 83 | 79 | 77 | 75 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 73 | 81 | 76 | 73 | | 80 | 75 | 72 | | 78 | 74 | 72 | 70 |
| 6 | 88 | 79 | 73 | 68 | 86 | 78 | 72 | 68 | 76 | 71 | 68 | | 75 | 71 | 67 | | 74 | 70 | 67 | 65 |
| 7 | 83 | 74 | 68 | 64 | 82 | 73 | 68 | 64 | 72 | 67 | 63 | | 71 | 66 | 63 | | 70 | 66 | 63 | 61 |
| 8 | 79 | 70 | 64 | 60 | 78 | 69 | 63 | 59 | 68 | 63 | 59 | | 67 | 62 | 59 | | 66 | 62 | 59 | 57 |
| 9 | 75 | 66 | 60 | 56 | 74 | 65 | 60 | 56 | 64 | 59 | 56 | | 63 | 59 | 55 | | 63 | 58 | 55 | 54 |
| 10 | 72 | 62 | 56 | 53 | 71 | 62 | 56 | 52 | 61 | 56 | 52 | | 60 | 55 | 52 | | 59 | 55 | 52 | 51 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 241091 |
| 5° | 245591 |
| 10° | 237784 |
| 15° | 219000 |
| 20° | 187665 |
| 25° | 160050 |
| 30° | 136873 |
| 35° | 102317 |
| 40° | 36309 |
| 45° | 16973 |
| 50° | 11226 |
| 55° | 7548 |
| 60° | 3799 |
| 65° | 905 |
| 70° | 649 |
| 75° | 572 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 186.6 | 10.9 |
| 10°-20° | 473.3 | 27.5 |
| 20°-30° | 540.3 | 31.4 |
| 30°-40° | 396.7 | 23.1 |
| 40°-50° | 84.2 | 4.9 |
| 50°-60° | 31.8 | 1.9 |
| 60°-70° | 4.5 | 0.3 |
| 70°-80° | 1.2 | 0.1 |
| 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° | 1200.3 | 69.8 |
| 0°-40° | 1597.0 | 92.9 |
| 0°-60° | 1713.0 | 99.7 |
| 0°-90° | 1718.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1718.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1955 | |
| 5° | 1984 | 187 |
| 15° | 1715 | 473 |
| 25° | 1176 | 540 |
| 35° | 680 | 397 |
| 45° | 97 | 84 |
| 55° | 35 | 32 |
| 65° | 3 | 5 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1954.6 |
| 1° | 1954.0 |
| 2° | 1958.9 |
| 3° | 1968.7 |
| 4° | 1978.0 |
| 5° | 1983.5 |
| 6° | 1982.3 |
| 7° | 1971.8 |
| 8° | 1951.5 |
| 9° | 1926.2 |
| 10° | 1898.5 |
| 11° | 1867.1 |
| 12° | 1835.1 |
| 13° | 1798.7 |
| 14° | 1759.3 |
| 15° | 1715.0 |
| 16° | 1664.4 |
| 17° | 1608.4 |
| 18° | 1550.5 |
| 19° | 1489.5 |
| 20° | 1429.7 |
| 21° | 1374.3 |
| 22° | 1320.7 |
| 23° | 1270.2 |
| 24° | 1222.2 |
| 25° | 1176.0 |
| 26° | 1131.0 |
| 27° | 1085.4 |
| 28° | 1041.7 |
| 29° | 1001.0 |
| 30° | 961.0 |
| 32.5° | 853.2 |
| 35° | 679.5 |
| 37.5° | 458.9 |
| 40° | 225.5 |
| 42.5° | 126.9 |
| 45° | 97.3 |
| 47.5° | 76.4 |
| 50° | 58.5 |
| 52.5° | 46.2 |
| 55° | 35.1 |
| 57.5° | 25.3 |
| 60° | 15.4 |
| 62.5° | 4.3 |
| 65° | 3.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 2.5 |
| 70° | 1.8 |
| 72.5° | 1.8 |
| 75° | 1.2 |
| 77.5° | 0.6 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)