

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: P220701

Luminaire Tested: **9003-W1-FL-LED2790-W-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29479)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9003-W1-FL-LED2790-W-BK-L2-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1229.5 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

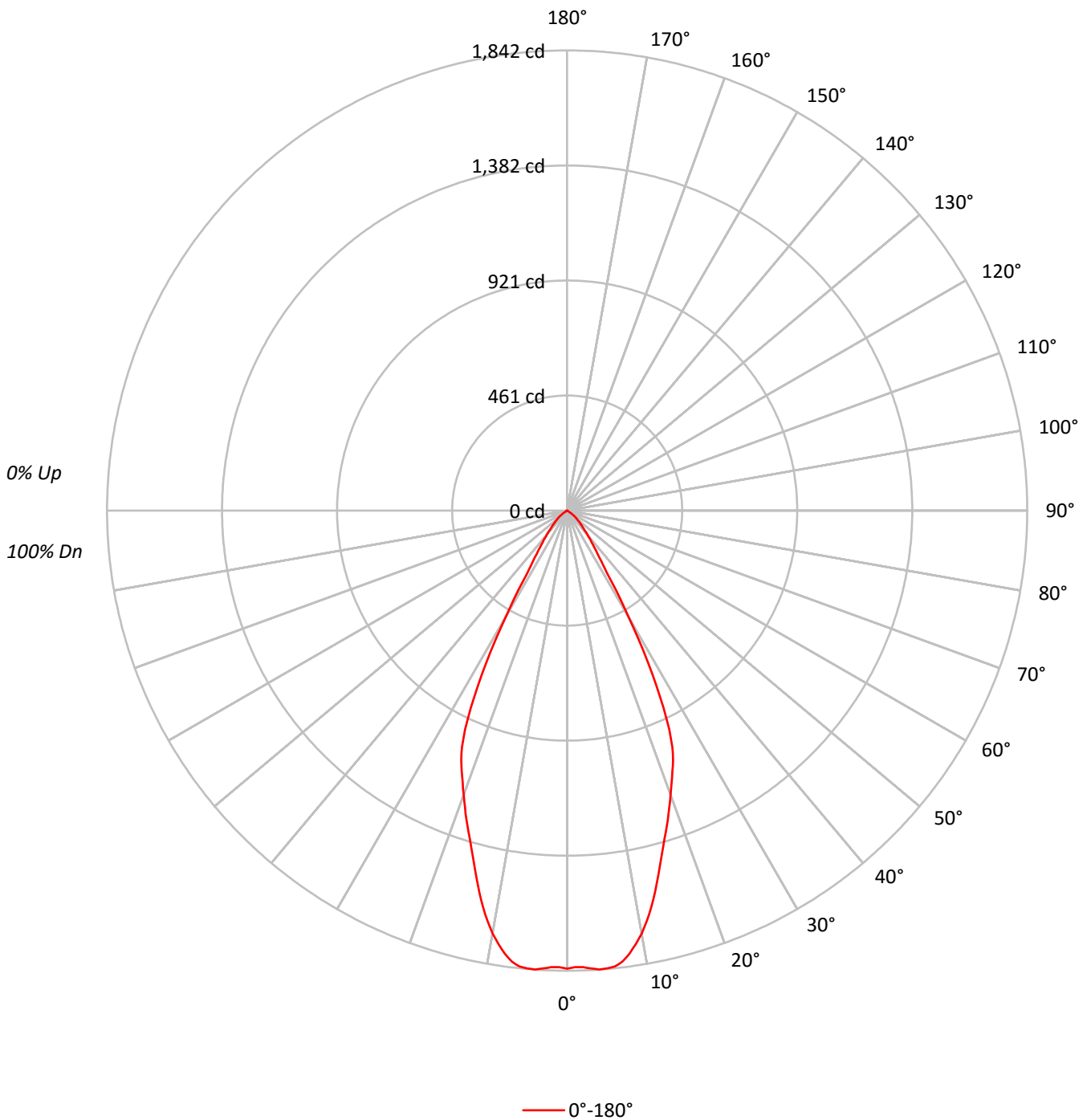
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | | 101 | 100 | 99 | | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 94 | | 96 | 94 | 92 | | 93 | 92 | 90 | 88 |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 94 | 90 | 87 | | 91 | 88 | 86 | | 89 | 86 | 84 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 88 | 84 | 81 | | 87 | 83 | 80 | | 85 | 82 | 79 | 78 |
| 5 | 94 | 86 | 81 | 77 | 93 | 86 | 80 | 77 | 84 | 79 | 76 | | 82 | 78 | 75 | | 81 | 77 | 75 | 73 |
| 6 | 90 | 82 | 76 | 72 | 89 | 81 | 76 | 72 | 79 | 75 | 71 | | 78 | 74 | 71 | | 77 | 73 | 70 | 69 |
| 7 | 86 | 77 | 72 | 68 | 85 | 77 | 71 | 68 | 75 | 71 | 67 | | 74 | 70 | 67 | | 73 | 69 | 67 | 65 |
| 8 | 82 | 73 | 68 | 64 | 81 | 73 | 68 | 64 | 72 | 67 | 64 | | 71 | 66 | 63 | | 70 | 66 | 63 | 62 |
| 9 | 79 | 70 | 64 | 61 | 78 | 69 | 64 | 60 | 68 | 64 | 60 | | 68 | 63 | 60 | | 67 | 63 | 60 | 59 |
| 10 | 75 | 66 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 60 | 57 | | 64 | 60 | 57 | | 64 | 60 | 57 | 56 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 402007 |
| 5° | 405040 |
| 10° | 382669 |
| 15° | 329173 |
| 20° | 282568 |
| 25° | 233820 |
| 30° | 124728 |
| 35° | 56751 |
| 40° | 36268 |
| 45° | 23878 |
| 50° | 16716 |
| 55° | 8372 |
| 60° | 1974 |
| 65° | 1972 |
| 70° | 1923 |
| 75° | 1271 |
| 80° | 1010 |
| 85° | 2013 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 171.9 | 14.0 |
| 10°-20° | 405.5 | 33.0 |
| 20°-30° | 414.4 | 33.7 |
| 30°-40° | 150.1 | 12.2 |
| 40°-50° | 61.8 | 5.0 |
| 50°-60° | 19.9 | 1.6 |
| 60°-70° | 3.6 | 0.3 |
| 70°-80° | 1.7 | 0.1 |
| 80°-90° | 0.5 | 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° | 991.8 | 80.7 |
| 0°-40° | 1141.9 | 92.9 |
| 0°-60° | 1223.7 | 99.5 |
| 0°-90° | 1229.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1229.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1833 | |
| 5° | 1840 | 172 |
| 15° | 1450 | 406 |
| 25° | 966 | 414 |
| 35° | 212 | 150 |
| 45° | 77 | 62 |
| 55° | 22 | 20 |
| 65° | 4 | 4 |
| 75° | 2 | 2 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1833.3 |
| 1° | 1828.0 |
| 2° | 1828.8 |
| 3° | 1835.5 |
| 4° | 1841.6 |
| 5° | 1840.1 |
| 6° | 1834.8 |
| 7° | 1818.2 |
| 8° | 1791.8 |
| 9° | 1757.1 |
| 10° | 1718.6 |
| 11° | 1672.6 |
| 12° | 1622.0 |
| 13° | 1565.5 |
| 14° | 1506.6 |
| 15° | 1450.0 |
| 16° | 1395.7 |
| 17° | 1348.2 |
| 18° | 1304.4 |
| 19° | 1256.1 |
| 20° | 1210.9 |
| 21° | 1167.9 |
| 22° | 1125.6 |
| 23° | 1084.9 |
| 24° | 1036.6 |
| 25° | 966.4 |
| 26° | 880.4 |
| 27° | 786.9 |
| 28° | 688.0 |
| 29° | 588.5 |
| 30° | 492.6 |
| 32.5° | 295.7 |
| 35° | 212.0 |
| 37.5° | 163.7 |
| 40° | 126.7 |
| 42.5° | 96.6 |
| 45° | 77.0 |
| 47.5° | 61.9 |
| 50° | 49.0 |
| 52.5° | 36.2 |
| 55° | 21.9 |
| 57.5° | 6.0 |
| 60° | 4.5 |
| 62.5° | 3.8 |
| 65° | 3.8 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 3.0 |
| 70° | 3.0 |
| 72.5° | 2.3 |
| 75° | 1.5 |
| 77.5° | 0.8 |
| 80° | 0.8 |
| 82.5° | 0.8 |
| 85° | 0.8 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)