

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: P220520

Luminaire Tested: **9003-W1-[RW, RI]-LED3590-M-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29473)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9003-W1-[RW, RI]-LED3590-M-BK-L1-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 632.3 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.4
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

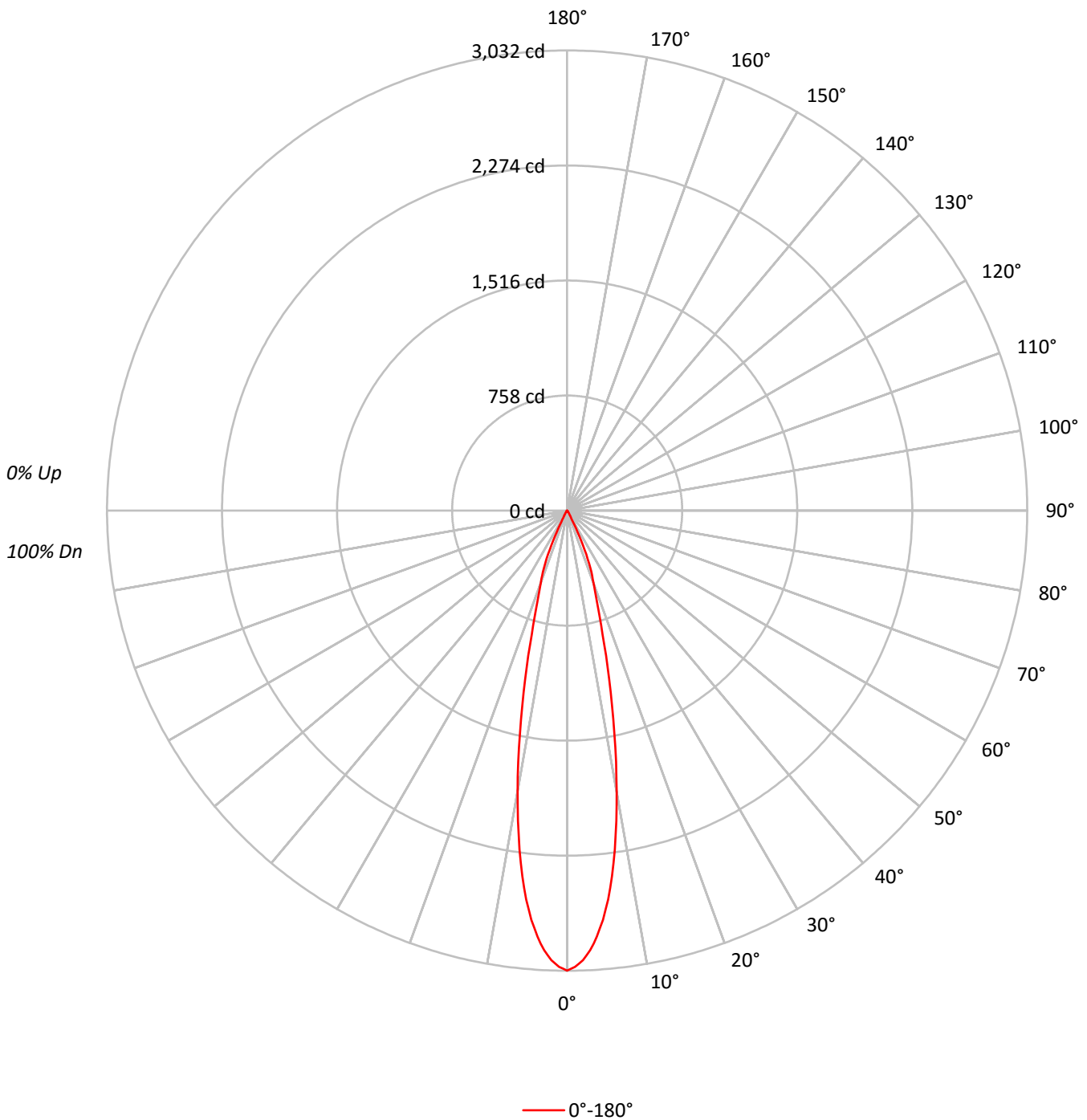
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 |
| 2 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99 | 100 | 98 | 97 | 98 | 96 | 95 | 94 |
| 3 | 108 | 103 | 100 | 97 | 106 | 102 | 99 | 96 | 100 | 97 | 95 | 97 | 95 | 93 | 95 | 93 | 92 | 91 |
| 4 | 105 | 99 | 95 | 93 | 103 | 98 | 95 | 92 | 96 | 93 | 91 | 95 | 92 | 90 | 93 | 91 | 89 | 88 |
| 5 | 102 | 96 | 92 | 89 | 100 | 95 | 91 | 88 | 93 | 90 | 88 | 92 | 89 | 87 | 91 | 88 | 86 | 85 |
| 6 | 99 | 93 | 89 | 86 | 98 | 92 | 88 | 85 | 91 | 87 | 85 | 89 | 87 | 84 | 88 | 86 | 84 | 83 |
| 7 | 96 | 90 | 86 | 83 | 95 | 89 | 85 | 83 | 88 | 85 | 82 | 87 | 84 | 82 | 86 | 83 | 81 | 80 |
| 8 | 94 | 87 | 83 | 80 | 93 | 87 | 83 | 80 | 86 | 82 | 80 | 85 | 82 | 80 | 84 | 81 | 79 | 78 |
| 9 | 91 | 85 | 81 | 78 | 90 | 84 | 80 | 78 | 83 | 80 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 76 |
| 10 | 89 | 82 | 78 | 76 | 88 | 82 | 78 | 76 | 81 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 664749 |
| 5° | 595706 |
| 10° | 418518 |
| 15° | 224587 |
| 20° | 118147 |
| 25° | 52818 |
| 30° | 10204 |
| 35° | 3748 |
| 40° | 2147 |
| 45° | 1768 |
| 50° | 1501 |
| 55° | 1185 |
| 60° | 965 |
| 65° | 675 |
| 70° | 256 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 231.5 | 36.6 |
| 10°-20° | 279.0 | 44.1 |
| 20°-30° | 101.8 | 16.1 |
| 30°-40° | 11.3 | 1.8 |
| 40°-50° | 4.4 | 0.7 |
| 50°-60° | 2.8 | 0.4 |
| 60°-70° | 1.3 | 0.2 |
| 70°-80° | 0.2 | 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° | 612.4 | 96.8 |
| 0°-40° | 623.6 | 98.6 |
| 0°-60° | 630.8 | 99.8 |
| 0°-90° | 632.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 632.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3032 | |
| 5° | 2706 | 232 |
| 15° | 989 | 279 |
| 25° | 218 | 102 |
| 35° | 14 | 11 |
| 45° | 6 | 4 |
| 55° | 3 | 3 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3031.5 |
| 1° | 3007.0 |
| 2° | 2964.0 |
| 3° | 2900.9 |
| 4° | 2813.7 |
| 5° | 2706.3 |
| 6° | 2577.9 |
| 7° | 2427.1 |
| 8° | 2256.1 |
| 9° | 2070.7 |
| 10° | 1879.6 |
| 11° | 1687.2 |
| 12° | 1496.5 |
| 13° | 1316.3 |
| 14° | 1144.5 |
| 15° | 989.3 |
| 16° | 846.9 |
| 17° | 730.7 |
| 18° | 636.5 |
| 19° | 561.9 |
| 20° | 506.3 |
| 21° | 460.7 |
| 22° | 408.5 |
| 23° | 346.7 |
| 24° | 282.3 |
| 25° | 218.3 |
| 26° | 157.4 |
| 27° | 103.0 |
| 28° | 64.9 |
| 29° | 47.3 |
| 30° | 40.3 |
| 32.5° | 27.2 |
| 35° | 14.0 |
| 37.5° | 9.2 |
| 40° | 7.5 |
| 42.5° | 6.6 |
| 45° | 5.7 |
| 47.5° | 4.8 |
| 50° | 4.4 |
| 52.5° | 3.5 |
| 55° | 3.1 |
| 57.5° | 2.6 |
| 60° | 2.2 |
| 62.5° | 1.8 |
| 65° | 1.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 0.9 |
| 70° | 0.4 |
| 72.5° | 0.4 |
| 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)