

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: P220464

Luminaire Tested: **9003-W1-[RW, RI]-LED3097-M-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29469)
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]-LED3097-M-WT-L2-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1220.7 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

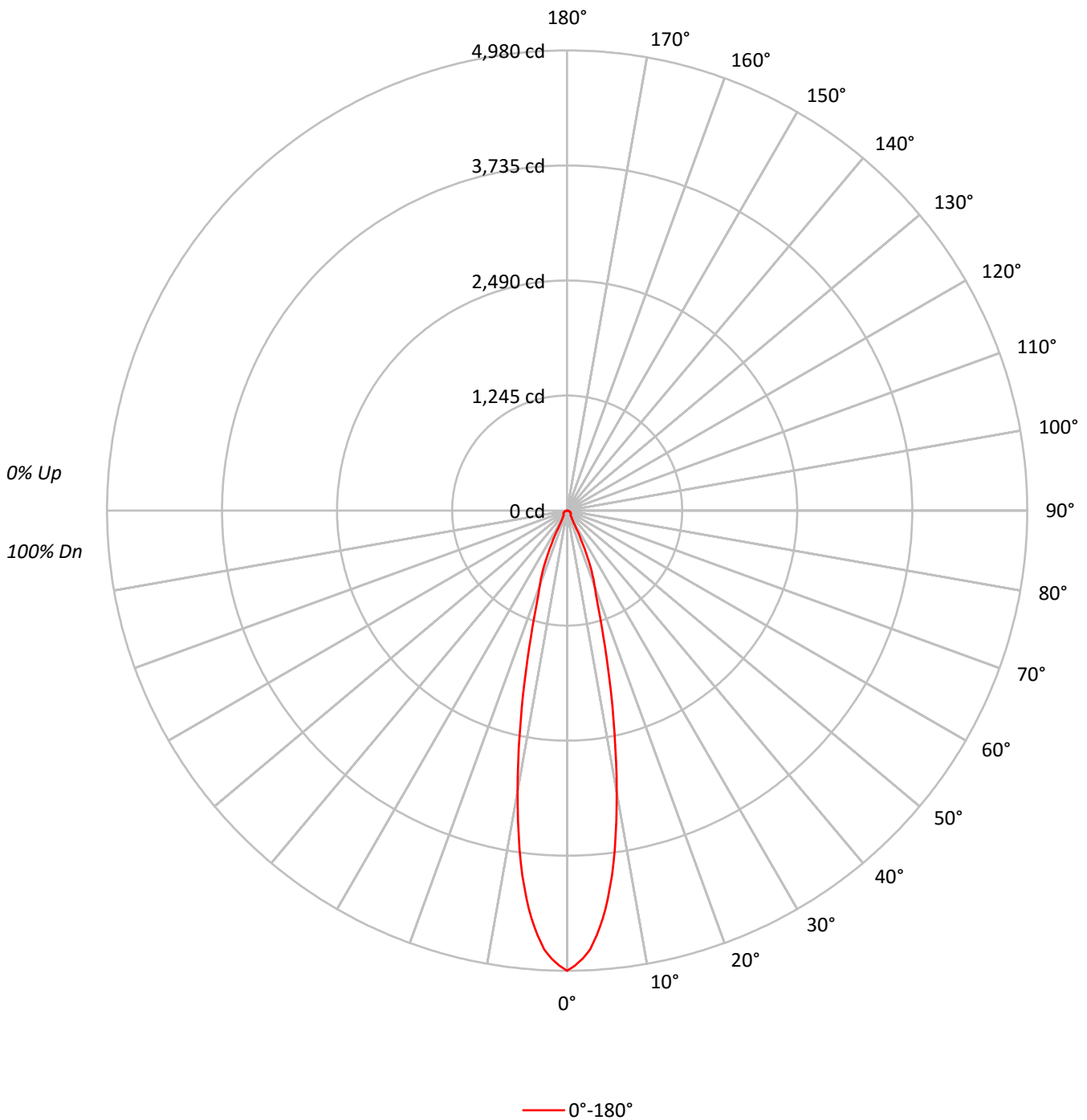
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 101 | 98 | 107 | 103 | 99 | 97 | 100 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 91 | 89 |
| 3 | 105 | 99 | 94 | 91 | 103 | 97 | 93 | 90 | 95 | 91 | 89 | 93 | 90 | 87 | 90 | 88 | 86 | 85 |
| 4 | 100 | 94 | 89 | 85 | 99 | 93 | 88 | 85 | 91 | 87 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 81 |
| 5 | 97 | 90 | 85 | 81 | 95 | 89 | 84 | 81 | 87 | 83 | 80 | 86 | 82 | 79 | 84 | 81 | 79 | 77 |
| 6 | 93 | 86 | 81 | 77 | 92 | 85 | 81 | 77 | 84 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 76 | 74 |
| 7 | 90 | 83 | 78 | 74 | 89 | 82 | 77 | 74 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 76 | 73 | 72 |
| 8 | 88 | 80 | 75 | 72 | 86 | 79 | 75 | 71 | 78 | 74 | 71 | 77 | 74 | 71 | 77 | 73 | 71 | 70 |
| 9 | 85 | 77 | 72 | 69 | 84 | 77 | 72 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 74 | 71 | 68 | 67 |
| 10 | 82 | 75 | 70 | 67 | 82 | 74 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 72 | 69 | 66 | 65 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1092105 |
| 5° | 975718 |
| 10° | 687919 |
| 15° | 373827 |
| 20° | 202271 |
| 25° | 96489 |
| 30° | 27878 |
| 35° | 18150 |
| 40° | 16574 |
| 45° | 17087 |
| 50° | 18046 |
| 55° | 19153 |
| 60° | 18902 |
| 65° | 17953 |
| 70° | 14938 |
| 75° | 13132 |
| 80° | 15153 |
| 85° | 14089 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 379.5 | 31.1 |
| 10°-20° | 464.7 | 38.1 |
| 20°-30° | 185.9 | 15.2 |
| 30°-40° | 46.6 | 3.8 |
| 40°-50° | 42.8 | 3.5 |
| 50°-60° | 44.1 | 3.6 |
| 60°-70° | 33.5 | 2.7 |
| 70°-80° | 17.3 | 1.4 |
| 80°-90° | 6.2 | 0.5 |
| 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° | 1030.2 | 84.4 |
| 0°-40° | 1076.7 | 88.2 |
| 0°-60° | 1163.6 | 95.3 |
| 0°-90° | 1220.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1220.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4980 | |
| 5° | 4433 | 380 |
| 15° | 1647 | 465 |
| 25° | 399 | 186 |
| 35° | 68 | 47 |
| 45° | 55 | 43 |
| 55° | 50 | 44 |
| 65° | 35 | 33 |
| 75° | 16 | 17 |
| 85° | 6 | 6 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 4980.4 |
| 1° | 4925.4 |
| 2° | 4851.2 |
| 3° | 4754.5 |
| 4° | 4603.5 |
| 5° | 4432.7 |
| 6° | 4218.8 |
| 7° | 3981.6 |
| 8° | 3702.1 |
| 9° | 3397.2 |
| 10° | 3089.5 |
| 11° | 2776.1 |
| 12° | 2467.6 |
| 13° | 2179.6 |
| 14° | 1901.5 |
| 15° | 1646.7 |
| 16° | 1415.9 |
| 17° | 1228.2 |
| 18° | 1075.0 |
| 19° | 955.7 |
| 20° | 866.8 |
| 21° | 792.0 |
| 22° | 706.5 |
| 23° | 608.4 |
| 24° | 502.6 |
| 25° | 398.8 |
| 26° | 298.6 |
| 27° | 213.2 |
| 28° | 150.3 |
| 29° | 121.4 |
| 30° | 110.1 |
| 32.5° | 88.2 |
| 35° | 67.8 |
| 37.5° | 60.7 |
| 40° | 57.9 |
| 42.5° | 56.5 |
| 45° | 55.1 |
| 47.5° | 54.3 |
| 50° | 52.9 |
| 52.5° | 52.2 |
| 55° | 50.1 |
| 57.5° | 46.6 |
| 60° | 43.1 |
| 62.5° | 39.5 |
| 65° | 34.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 67.5° | 28.2 |
| 70° | 23.3 |
| 72.5° | 18.4 |
| 75° | 15.5 |
| 77.5° | 14.1 |
| 80° | 12.0 |
| 82.5° | 8.5 |
| 85° | 5.6 |
| 87.5° | 2.8 |
| 90° | 0.0 |

(END OF REPORT)