

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: P220473

Luminaire Tested: **1003-[A1, S1, SU1]-[RW, RI]-LED3097-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29470)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 1003-[A1, S1, SU1]-[RW, RI]-LED3097-F-WT-L1-UNV
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 718.7 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.56
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

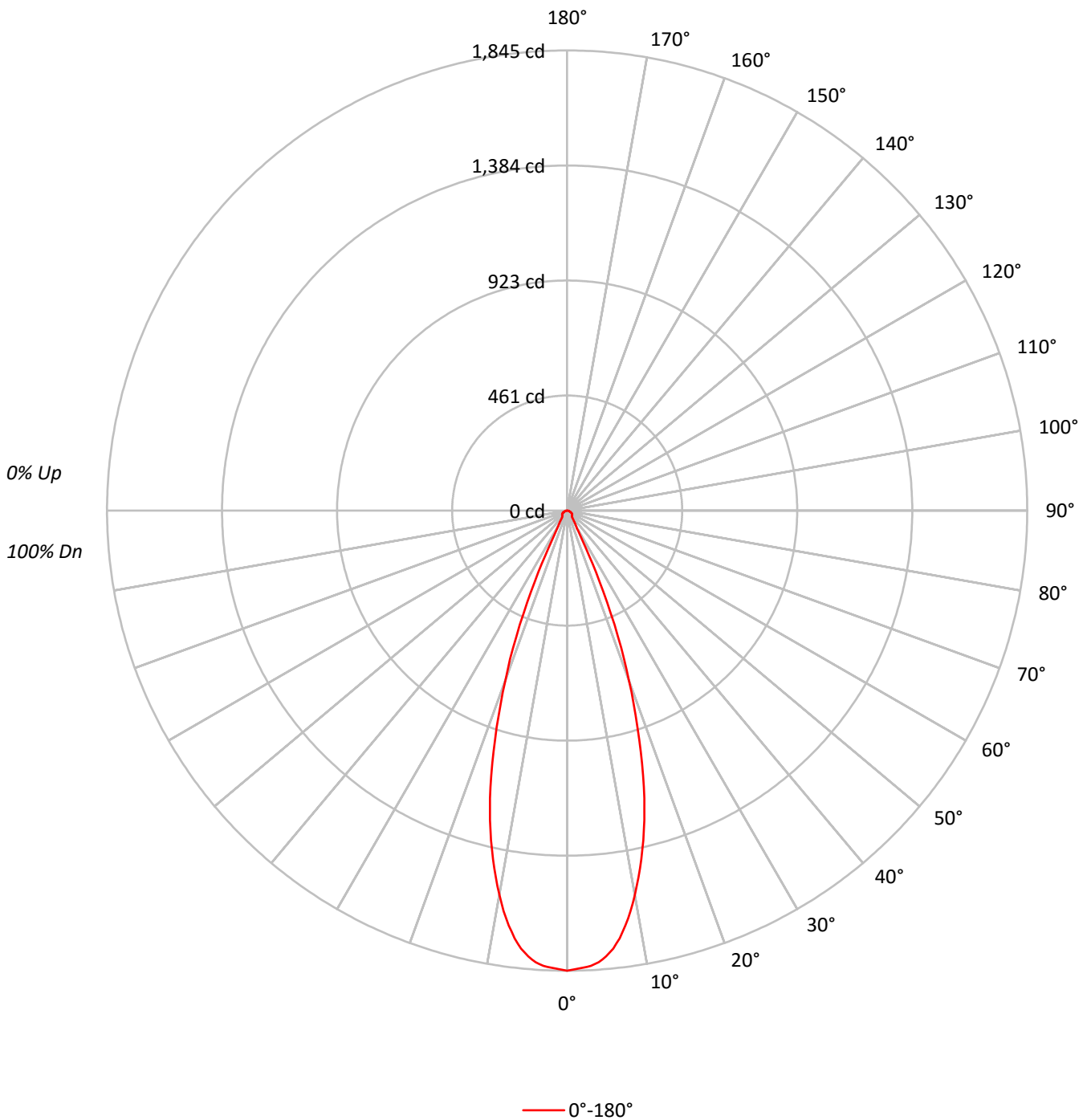
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 96 | 100 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 89 |
| 3 | 104 | 99 | 94 | 91 | 102 | 97 | 93 | 90 | 95 | 91 | 88 | 92 | 89 | 87 | 90 | 88 | 86 | 84 |
| 4 | 100 | 94 | 89 | 85 | 98 | 92 | 88 | 84 | 90 | 87 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 80 |
| 5 | 96 | 89 | 84 | 80 | 95 | 88 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 79 | 83 | 80 | 78 | 77 |
| 6 | 93 | 85 | 80 | 76 | 91 | 84 | 80 | 76 | 83 | 79 | 76 | 82 | 78 | 75 | 80 | 77 | 75 | 73 |
| 7 | 89 | 82 | 77 | 73 | 88 | 81 | 76 | 73 | 80 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 72 | 71 |
| 8 | 86 | 78 | 73 | 70 | 85 | 78 | 73 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 75 | 72 | 69 | 68 |
| 9 | 84 | 76 | 71 | 67 | 83 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 70 | 67 | 73 | 69 | 67 | 65 |
| 10 | 81 | 73 | 68 | 65 | 80 | 72 | 68 | 65 | 72 | 67 | 65 | 71 | 67 | 64 | 70 | 67 | 64 | 63 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 404551 |
| 5° | 394980 |
| 10° | 348401 |
| 15° | 271103 |
| 20° | 169345 |
| 25° | 66125 |
| 30° | 18028 |
| 35° | 10547 |
| 40° | 8444 |
| 45° | 8559 |
| 50° | 9006 |
| 55° | 9214 |
| 60° | 9078 |
| 65° | 8354 |
| 70° | 7117 |
| 75° | 6524 |
| 80° | 7198 |
| 85° | 6793 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 164.0 | 22.8 |
| 10°-20° | 320.1 | 44.5 |
| 20°-30° | 137.3 | 19.1 |
| 30°-40° | 27.1 | 3.8 |
| 40°-50° | 21.5 | 3.0 |
| 50°-60° | 21.4 | 3.0 |
| 60°-70° | 15.9 | 2.2 |
| 70°-80° | 8.5 | 1.2 |
| 80°-90° | 3.0 | 0.4 |
| 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° | 621.4 | 86.5 |
| 0°-40° | 648.5 | 90.2 |
| 0°-60° | 691.3 | 96.2 |
| 0°-90° | 718.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 718.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1845 | |
| 5° | 1794 | 164 |
| 15° | 1194 | 320 |
| 25° | 273 | 137 |
| 35° | 39 | 27 |
| 45° | 28 | 21 |
| 55° | 24 | 21 |
| 65° | 16 | 16 |
| 75° | 8 | 8 |
| 85° | 3 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1844.9 |
| 1° | 1839.5 |
| 2° | 1833.8 |
| 3° | 1828.4 |
| 4° | 1815.8 |
| 5° | 1794.4 |
| 6° | 1765.7 |
| 7° | 1728.2 |
| 8° | 1680.3 |
| 9° | 1626.3 |
| 10° | 1564.7 |
| 11° | 1498.9 |
| 12° | 1430.4 |
| 13° | 1356.1 |
| 14° | 1278.0 |
| 15° | 1194.2 |
| 16° | 1104.6 |
| 17° | 1010.5 |
| 18° | 913.3 |
| 19° | 818.0 |
| 20° | 725.7 |
| 21° | 638.1 |
| 22° | 543.9 |
| 23° | 447.4 |
| 24° | 355.6 |
| 25° | 273.3 |
| 26° | 201.7 |
| 27° | 142.8 |
| 28° | 101.8 |
| 29° | 80.8 |
| 30° | 71.2 |
| 32.5° | 54.0 |
| 35° | 39.4 |
| 37.5° | 32.2 |
| 40° | 29.5 |
| 42.5° | 28.3 |
| 45° | 27.6 |
| 47.5° | 27.2 |
| 50° | 26.4 |
| 52.5° | 25.3 |
| 55° | 24.1 |
| 57.5° | 22.6 |
| 60° | 20.7 |
| 62.5° | 18.8 |
| 65° | 16.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 67.5° | 13.4 |
| 70° | 11.1 |
| 72.5° | 9.2 |
| 75° | 7.7 |
| 77.5° | 6.9 |
| 80° | 5.7 |
| 82.5° | 4.2 |
| 85° | 2.7 |
| 87.5° | 1.1 |
| 90° | 0.0 |

(END OF REPORT)