

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: P220608

Luminaire Tested: **1003-[A1, S1, SU1]-FL-LED4080-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29478)
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]-FL-LED4080-F-WT-L1-UNV
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 969.1 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

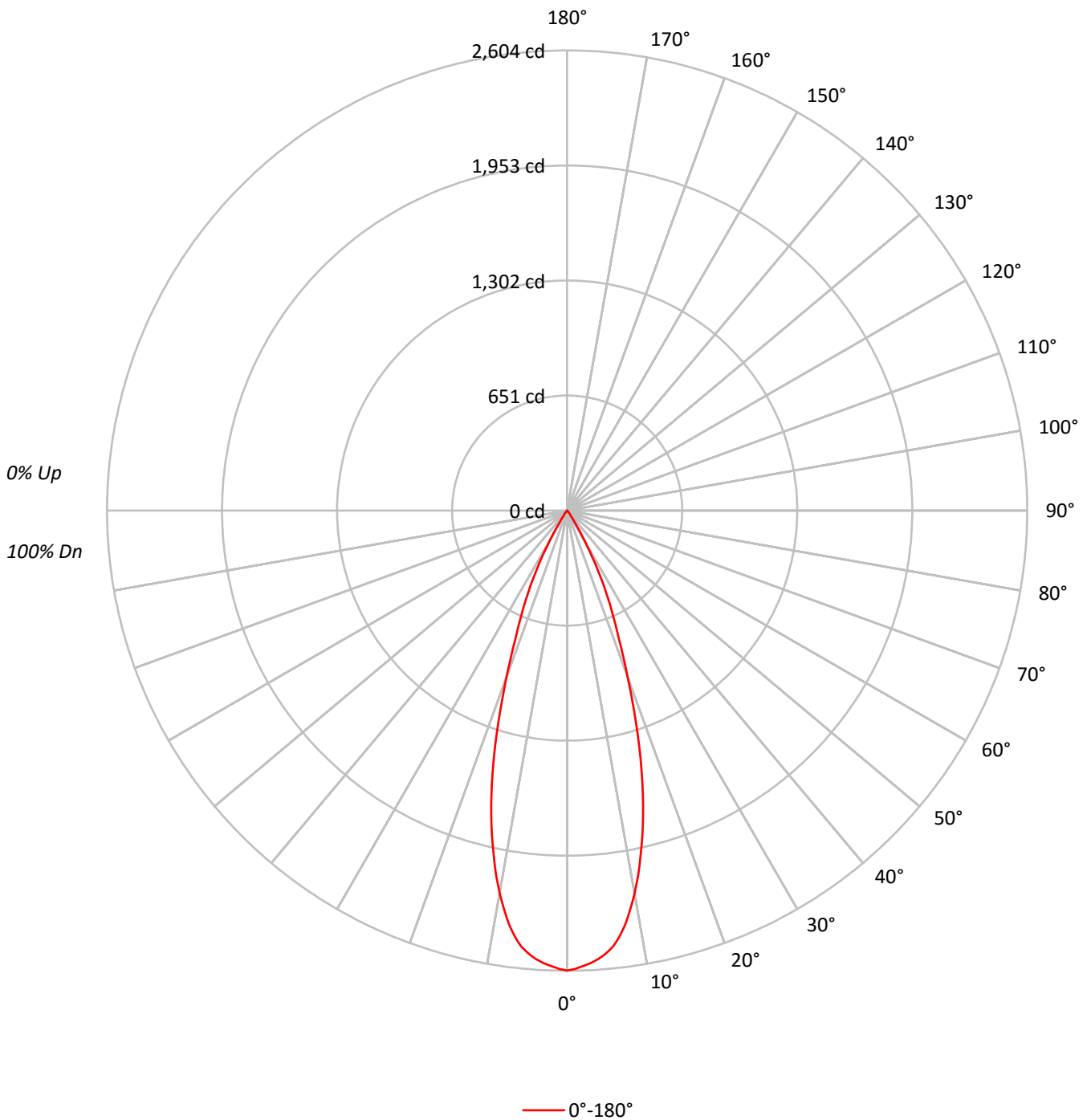
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 101 | 100 | 99 | 98 | 98 | 96 |
| 2 | 110 | 107 | 103 | 101 | 108 | 105 | 102 | 100 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 95 | 93 | 92 |
| 3 | 107 | 101 | 98 | 94 | 105 | 100 | 97 | 94 | 98 | 95 | 92 | 95 | 93 | 91 | 93 | 91 | 89 | 88 |
| 4 | 103 | 97 | 93 | 89 | 101 | 96 | 92 | 89 | 94 | 90 | 88 | 92 | 89 | 87 | 90 | 88 | 86 | 85 |
| 5 | 99 | 93 | 88 | 85 | 98 | 92 | 88 | 85 | 90 | 87 | 84 | 89 | 86 | 83 | 87 | 85 | 82 | 81 |
| 6 | 96 | 89 | 84 | 81 | 95 | 88 | 84 | 81 | 87 | 83 | 80 | 86 | 82 | 80 | 84 | 82 | 79 | 78 |
| 7 | 93 | 85 | 81 | 78 | 91 | 85 | 81 | 77 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 75 |
| 8 | 90 | 82 | 78 | 75 | 89 | 82 | 77 | 74 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 74 | 73 |
| 9 | 87 | 79 | 75 | 72 | 86 | 79 | 75 | 72 | 78 | 74 | 71 | 77 | 74 | 71 | 77 | 73 | 71 | 70 |
| 10 | 84 | 77 | 72 | 69 | 83 | 76 | 72 | 69 | 75 | 72 | 69 | 75 | 71 | 69 | 74 | 71 | 69 | 68 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 570897 |
| 5° | 553972 |
| 10° | 489748 |
| 15° | 376098 |
| 20° | 234100 |
| 25° | 131983 |
| 30° | 50109 |
| 35° | 10734 |
| 40° | 4179 |
| 45° | 1333 |
| 50° | 1126 |
| 55° | 841 |
| 60° | 702 |
| 65° | 830 |
| 70° | 705 |
| 75° | 932 |
| 80° | 631 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 230.4 | 23.8 |
| 10°-20° | 444.6 | 45.9 |
| 20°-30° | 247.9 | 25.6 |
| 30°-40° | 37.4 | 3.9 |
| 40°-50° | 4.2 | 0.4 |
| 50°-60° | 2.1 | 0.2 |
| 60°-70° | 1.4 | 0.1 |
| 70°-80° | 0.9 | 0.1 |
| 80°-90° | 0.2 | 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° | 922.8 | 95.2 |
| 0°-40° | 960.2 | 99.1 |
| 0°-60° | 966.5 | 99.7 |
| 0°-90° | 969.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 969.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2604 | |
| 5° | 2517 | 230 |
| 15° | 1657 | 445 |
| 25° | 546 | 248 |
| 35° | 40 | 37 |
| 45° | 4 | 4 |
| 55° | 2 | 2 |
| 65° | 2 | 1 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2603.5 |
| 1° | 2594.2 |
| 2° | 2579.1 |
| 3° | 2563.3 |
| 4° | 2543.3 |
| 5° | 2516.7 |
| 6° | 2480.9 |
| 7° | 2429.4 |
| 8° | 2363.2 |
| 9° | 2285.2 |
| 10° | 2199.5 |
| 11° | 2103.5 |
| 12° | 1999.4 |
| 13° | 1891.5 |
| 14° | 1776.0 |
| 15° | 1656.7 |
| 16° | 1527.6 |
| 17° | 1394.2 |
| 18° | 1258.6 |
| 19° | 1129.0 |
| 20° | 1003.2 |
| 21° | 886.6 |
| 22° | 783.6 |
| 23° | 696.8 |
| 24° | 621.4 |
| 25° | 545.5 |
| 26° | 471.2 |
| 27° | 399.1 |
| 28° | 329.2 |
| 29° | 261.9 |
| 30° | 197.9 |
| 32.5° | 79.2 |
| 35° | 40.1 |
| 37.5° | 24.9 |
| 40° | 14.6 |
| 42.5° | 5.4 |
| 45° | 4.3 |
| 47.5° | 3.3 |
| 50° | 3.3 |
| 52.5° | 2.7 |
| 55° | 2.2 |
| 57.5° | 2.2 |
| 60° | 1.6 |
| 62.5° | 1.6 |
| 65° | 1.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 1.1 |
| 70° | 1.1 |
| 72.5° | 1.1 |
| 75° | 1.1 |
| 77.5° | 0.5 |
| 80° | 0.5 |
| 82.5° | 0.5 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)