

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: P220646

Luminaire Tested: **1003-[A1, S1, SU1]-FL-LED2797-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29476)
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-LED2797-S-BK-L1-UNV
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, FLUSH LENS, SPOT OPTIC, BLACK HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 644.6 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

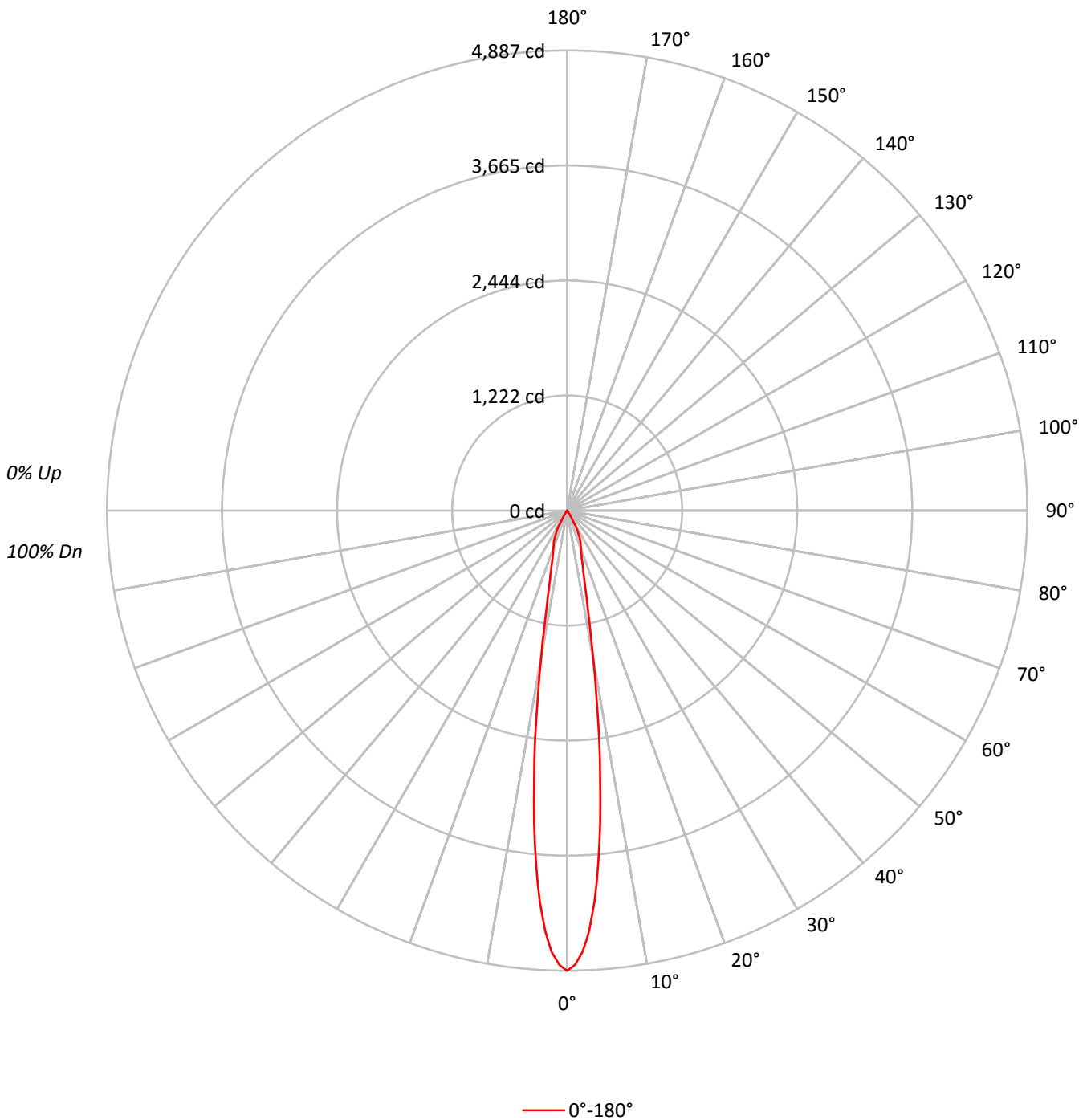
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 110 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 99 | 97 |
| 2 | 111 | 108 | 105 | 103 | 109 | 106 | 104 | 101 | 103 | 101 | 99 | 100 | 99 | 97 | 98 | 96 | 95 | 94 |
| 3 | 108 | 104 | 100 | 97 | 106 | 102 | 99 | 97 | 100 | 97 | 95 | 98 | 95 | 94 | 95 | 94 | 92 | 91 |
| 4 | 105 | 100 | 96 | 93 | 103 | 99 | 95 | 92 | 97 | 94 | 91 | 95 | 92 | 90 | 93 | 91 | 89 | 88 |
| 5 | 102 | 96 | 92 | 89 | 101 | 95 | 92 | 89 | 94 | 91 | 88 | 92 | 90 | 88 | 91 | 89 | 87 | 86 |
| 6 | 99 | 93 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 86 | 90 | 87 | 85 | 89 | 86 | 85 | 83 |
| 7 | 97 | 90 | 86 | 84 | 96 | 90 | 86 | 83 | 89 | 85 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 81 |
| 8 | 94 | 88 | 84 | 81 | 93 | 87 | 84 | 81 | 87 | 83 | 81 | 86 | 83 | 81 | 85 | 82 | 80 | 79 |
| 9 | 92 | 86 | 82 | 79 | 91 | 85 | 81 | 79 | 84 | 81 | 79 | 84 | 81 | 79 | 83 | 80 | 78 | 77 |
| 10 | 90 | 83 | 80 | 77 | 89 | 83 | 79 | 77 | 82 | 79 | 77 | 82 | 79 | 77 | 81 | 78 | 76 | 76 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1071690 |
| 5° | 832069 |
| 10° | 355460 |
| 15° | 150307 |
| 20° | 99642 |
| 25° | 74690 |
| 30° | 28612 |
| 35° | 4363 |
| 40° | 2376 |
| 45° | 1054 |
| 50° | 785 |
| 55° | 726 |
| 60° | 833 |
| 65° | 778 |
| 70° | 705 |
| 75° | 678 |
| 80° | 505 |
| 85° | 1006 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 285.7 | 44.3 |
| 10°-20° | 202.4 | 31.4 |
| 20°-30° | 130.5 | 20.2 |
| 30°-40° | 18.8 | 2.9 |
| 40°-50° | 3.0 | 0.5 |
| 50°-60° | 1.8 | 0.3 |
| 60°-70° | 1.4 | 0.2 |
| 70°-80° | 0.7 | 0.1 |
| 80°-90° | 0.3 | 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° | 618.6 | 96.0 |
| 0°-40° | 637.4 | 98.9 |
| 0°-60° | 642.2 | 99.6 |
| 0°-90° | 644.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 644.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4887 | |
| 5° | 3780 | 286 |
| 15° | 662 | 202 |
| 25° | 309 | 130 |
| 35° | 16 | 19 |
| 45° | 3 | 3 |
| 55° | 2 | 2 |
| 65° | 2 | 1 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 4887.3 |
| 1° | 4826.2 |
| 2° | 4691.3 |
| 3° | 4469.4 |
| 4° | 4160.8 |
| 5° | 3780.1 |
| 6° | 3342.5 |
| 7° | 2885.6 |
| 8° | 2433.6 |
| 9° | 1986.9 |
| 10° | 1596.4 |
| 11° | 1277.5 |
| 12° | 1047.7 |
| 13° | 879.7 |
| 14° | 755.0 |
| 15° | 662.1 |
| 16° | 585.5 |
| 17° | 529.7 |
| 18° | 489.9 |
| 19° | 455.0 |
| 20° | 427.0 |
| 21° | 402.7 |
| 22° | 381.5 |
| 23° | 361.7 |
| 24° | 339.0 |
| 25° | 308.7 |
| 26° | 273.0 |
| 27° | 234.7 |
| 28° | 193.0 |
| 29° | 151.7 |
| 30° | 113.0 |
| 32.5° | 37.5 |
| 35° | 16.3 |
| 37.5° | 11.8 |
| 40° | 8.3 |
| 42.5° | 4.2 |
| 45° | 3.4 |
| 47.5° | 2.7 |
| 50° | 2.3 |
| 52.5° | 2.3 |
| 55° | 1.9 |
| 57.5° | 1.9 |
| 60° | 1.9 |
| 62.5° | 1.5 |
| 65° | 1.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 1.1 |
| 70° | 1.1 |
| 72.5° | 0.8 |
| 75° | 0.8 |
| 77.5° | 0.4 |
| 80° | 0.4 |
| 82.5° | 0.4 |
| 85° | 0.4 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)