

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: P220444

Luminaire Tested: **1003-[A1, S1, SU1]-[RW, RI]-LED3590-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29468)
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]-LED3590-S-WT-L2-UNV
Description: LUMIERE LANTERRA 1003 LED ACCENT/SIGN LUMINAIRE, RECESSED LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1453.4 lumens
Efficiency: N/A
Efficacy: 72.3 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

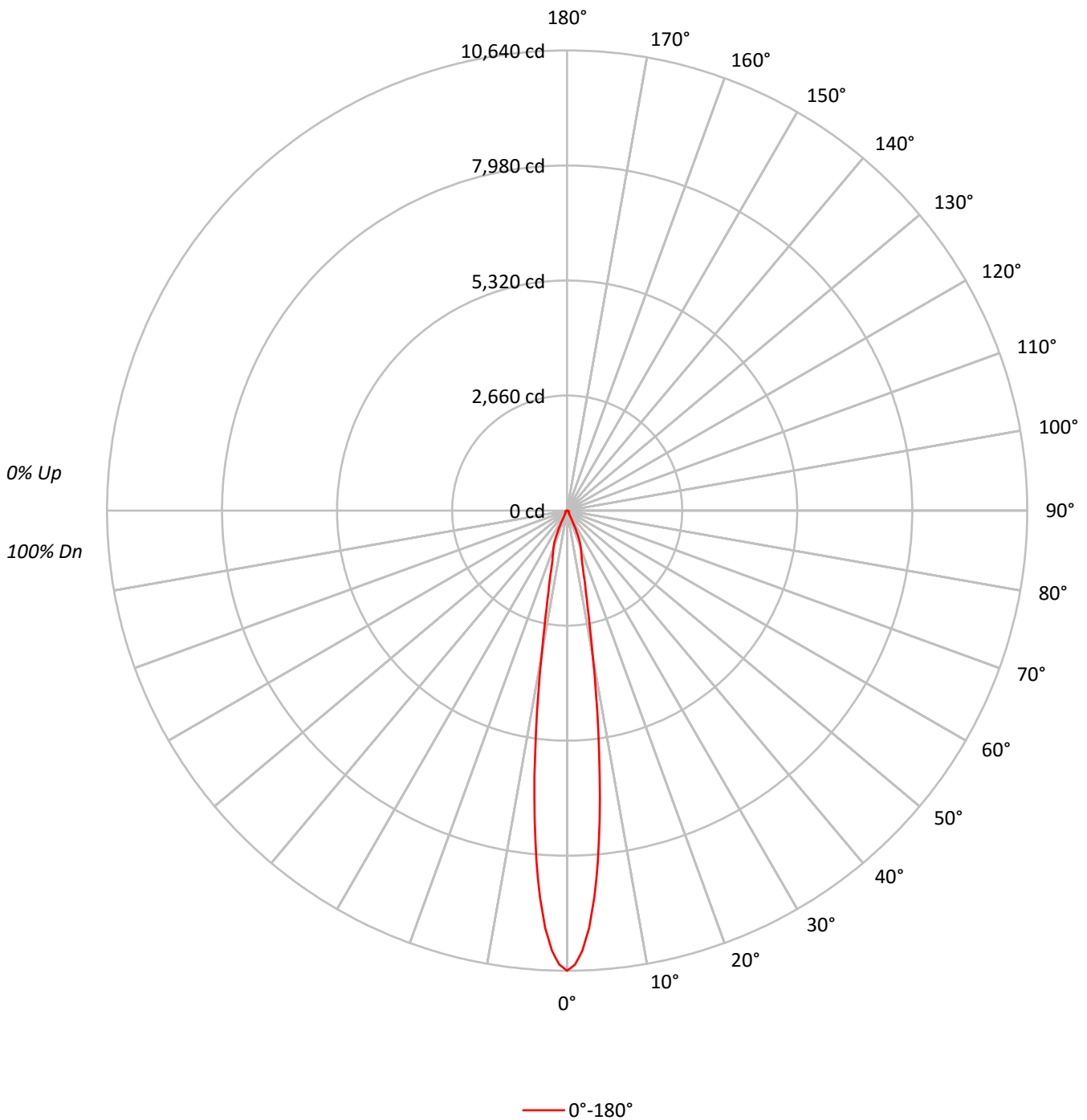
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 99 | 98 | 98 | 97 | 95 |
| 2 | 110 | 105 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 93 | 92 | 90 |
| 3 | 106 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 91 | 94 | 91 | 89 | 92 | 90 | 88 | 87 |
| 4 | 102 | 96 | 91 | 88 | 100 | 95 | 91 | 88 | 93 | 89 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 83 |
| 5 | 99 | 92 | 88 | 84 | 97 | 91 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 87 | 84 | 82 | 80 |
| 6 | 96 | 89 | 84 | 81 | 94 | 88 | 84 | 81 | 87 | 83 | 80 | 85 | 82 | 80 | 84 | 81 | 79 | 78 |
| 7 | 93 | 86 | 81 | 78 | 92 | 85 | 81 | 78 | 84 | 80 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 76 |
| 8 | 90 | 83 | 79 | 76 | 89 | 83 | 79 | 76 | 82 | 78 | 75 | 81 | 78 | 75 | 80 | 77 | 75 | 74 |
| 9 | 88 | 81 | 77 | 74 | 87 | 81 | 76 | 74 | 80 | 76 | 73 | 79 | 76 | 73 | 78 | 75 | 73 | 72 |
| 10 | 86 | 79 | 75 | 72 | 85 | 79 | 74 | 72 | 78 | 74 | 72 | 77 | 74 | 71 | 77 | 73 | 71 | 70 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 2333146 |
| 5° | 1792445 |
| 10° | 759906 |
| 15° | 326086 |
| 20° | 216926 |
| 25° | 103264 |
| 30° | 25371 |
| 35° | 18819 |
| 40° | 18034 |
| 45° | 18048 |
| 50° | 18490 |
| 55° | 20721 |
| 60° | 20919 |
| 65° | 19302 |
| 70° | 16092 |
| 75° | 14403 |
| 80° | 16290 |
| 85° | 16354 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 613.9 | 42.2 |
| 10°-20° | 439.3 | 30.2 |
| 20°-30° | 198.6 | 13.7 |
| 30°-40° | 46.9 | 3.2 |
| 40°-50° | 45.1 | 3.1 |
| 50°-60° | 47.5 | 3.3 |
| 60°-70° | 36.6 | 2.5 |
| 70°-80° | 18.9 | 1.3 |
| 80°-90° | 6.8 | 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° | 1251.8 | 86.1 |
| 0°-40° | 1298.7 | 89.4 |
| 0°-60° | 1391.2 | 95.7 |
| 0°-90° | 1453.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1453.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 10640 | |
| 5° | 8143 | 614 |
| 15° | 1436 | 439 |
| 25° | 427 | 199 |
| 35° | 70 | 47 |
| 45° | 58 | 45 |
| 55° | 54 | 47 |
| 65° | 37 | 37 |
| 75° | 17 | 19 |
| 85° | 6 | 7 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 10640.0 |
| 1° | 10501.0 |
| 2° | 10177.7 |
| 3° | 9665.2 |
| 4° | 8975.7 |
| 5° | 8143.1 |
| 6° | 7189.3 |
| 7° | 6190.2 |
| 8° | 5180.6 |
| 9° | 4237.3 |
| 10° | 3412.8 |
| 11° | 2756.4 |
| 12° | 2276.3 |
| 13° | 1923.8 |
| 14° | 1648.2 |
| 15° | 1436.4 |
| 16° | 1265.8 |
| 17° | 1151.1 |
| 18° | 1065.4 |
| 19° | 991.0 |
| 20° | 929.6 |
| 22.5° | 738.8 |
| 25° | 426.8 |
| 26° | 311.2 |
| 27° | 211.8 |
| 28° | 140.6 |
| 29° | 110.7 |
| 30° | 100.2 |
| 32.5° | 84.1 |
| 35° | 70.3 |
| 37.5° | 65.5 |
| 40° | 63.0 |
| 42.5° | 60.6 |
| 45° | 58.2 |
| 47.5° | 55.8 |
| 50° | 54.2 |
| 52.5° | 54.2 |
| 55° | 54.2 |
| 57.5° | 52.5 |
| 60° | 47.7 |
| 62.5° | 43.6 |
| 65° | 37.2 |
| 67.5° | 30.7 |
| 70° | 25.1 |
| 72.5° | 20.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 75° | 17.0 |
| 77.5° | 15.4 |
| 80° | 12.9 |
| 82.5° | 9.7 |
| 85° | 6.5 |
| 87.5° | 2.4 |
| 90° | 0.0 |

(END OF REPORT)