

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: P221520

Luminaire Tested: **9003-W2-[RW, RI]-LED5080-M-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221520
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-W2-[RW, RI]-LED5080-M-WT-L2-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3593.3 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: General Diffuse

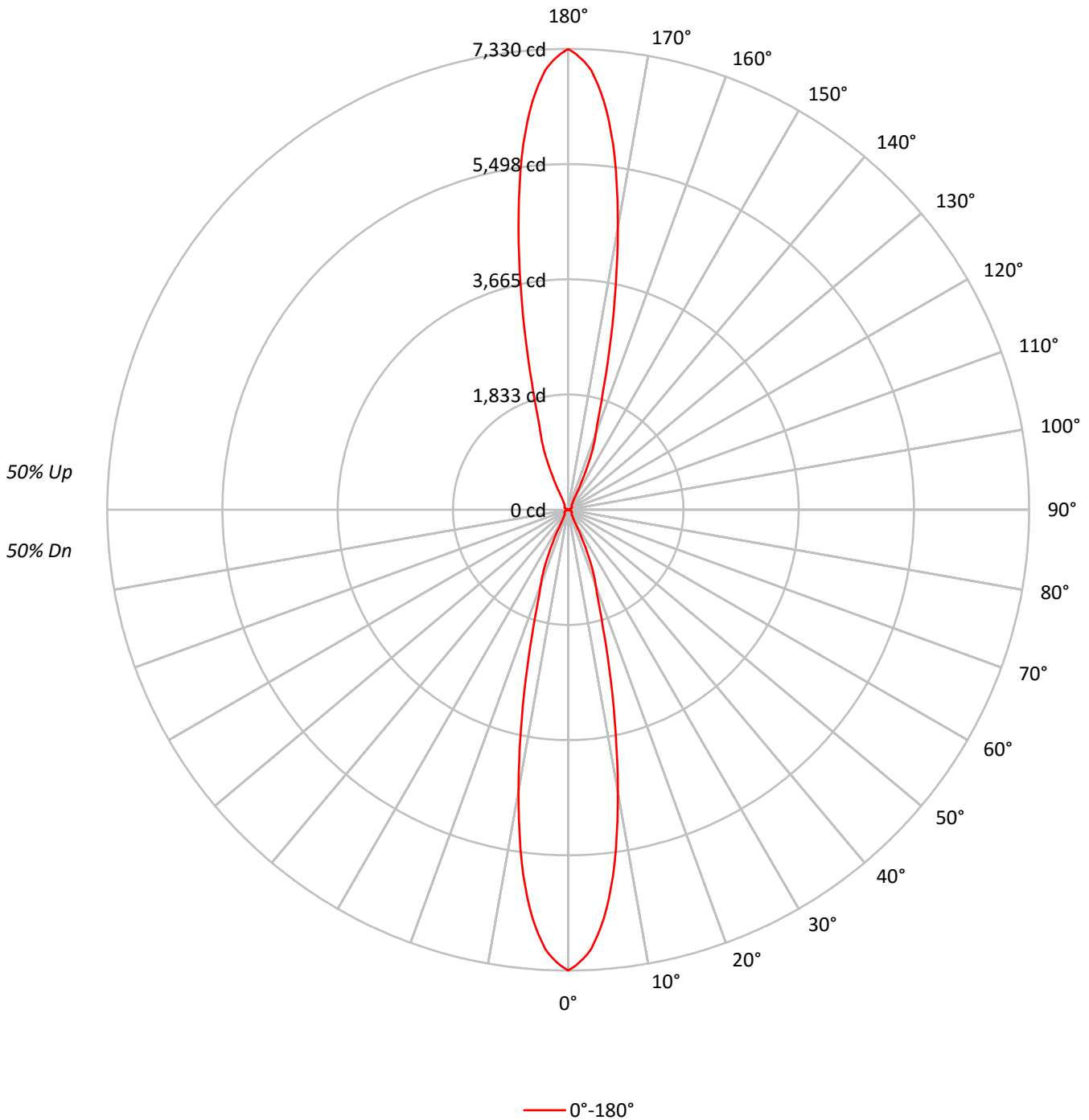
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 100 | 97 | 94 | 91 | 93 | 90 | 87 | 85 | 77 | 75 | 73 | 65 | 63 | 62 | 53 | 53 | 52 | 47 |
| 2 | 94 | 88 | 84 | 80 | 87 | 82 | 78 | 75 | 71 | 68 | 66 | 61 | 59 | 57 | 51 | 50 | 49 | 44 |
| 3 | 88 | 81 | 75 | 71 | 82 | 76 | 71 | 67 | 66 | 63 | 60 | 57 | 55 | 53 | 49 | 47 | 46 | 42 |
| 4 | 83 | 75 | 69 | 64 | 77 | 70 | 65 | 61 | 62 | 58 | 55 | 54 | 51 | 49 | 47 | 45 | 44 | 40 |
| 5 | 78 | 69 | 63 | 59 | 73 | 66 | 60 | 56 | 58 | 54 | 51 | 51 | 48 | 46 | 45 | 43 | 42 | 39 |
| 6 | 74 | 65 | 59 | 54 | 69 | 61 | 56 | 52 | 55 | 51 | 48 | 49 | 46 | 44 | 43 | 41 | 40 | 37 |
| 7 | 70 | 61 | 55 | 51 | 66 | 58 | 53 | 49 | 52 | 48 | 45 | 47 | 44 | 42 | 42 | 40 | 38 | 36 |
| 8 | 67 | 58 | 52 | 47 | 63 | 55 | 50 | 46 | 50 | 46 | 43 | 45 | 42 | 40 | 40 | 38 | 37 | 35 |
| 9 | 64 | 55 | 49 | 45 | 60 | 52 | 47 | 43 | 47 | 44 | 41 | 43 | 40 | 38 | 39 | 37 | 35 | 34 |
| 10 | 61 | 52 | 46 | 42 | 58 | 50 | 45 | 41 | 45 | 42 | 39 | 42 | 39 | 37 | 38 | 36 | 34 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1607327 |
| 5° | 1436030 |
| 10° | 1012451 |
| 15° | 550196 |
| 20° | 297689 |
| 25° | 142000 |
| 30° | 41044 |
| 35° | 26689 |
| 40° | 24389 |
| 45° | 25119 |
| 50° | 26575 |
| 55° | 28214 |
| 60° | 27805 |
| 65° | 26410 |
| 70° | 21991 |
| 75° | 19402 |
| 80° | 22351 |
| 85° | 20882 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 558.6 | 15.5 |
| 10°-20° | 684.0 | 19.0 |
| 20°-30° | 273.6 | 7.6 |
| 30°-40° | 68.5 | 1.9 |
| 40°-50° | 63.0 | 1.8 |
| 50°-60° | 64.9 | 1.8 |
| 60°-70° | 49.3 | 1.4 |
| 70°-80° | 25.5 | 0.7 |
| 80°-90° | 9.2 | 0.3 |
| 90°-100° | 9.2 | 0.3 |
| 100°-110° | 25.5 | 0.7 |
| 110°-120° | 49.3 | 1.4 |
| 120°-130° | 64.9 | 1.8 |
| 130°-140° | 63.0 | 1.8 |
| 140°-150° | 68.5 | 1.9 |
| 150°-160° | 273.6 | 7.6 |
| 160°-170° | 684.0 | 19.0 |
| 170°-180° | 558.6 | 15.5 |
| 0°-30° | 1516.2 | 42.2 |
| 0°-40° | 1584.7 | 44.1 |
| 0°-60° | 1712.6 | 47.7 |
| 0°-90° | 1796.6 | 50.0 |
| 90°-120° | 84.1 | 2.3 |
| 90°-150° | 280.5 | 7.8 |
| 90°-180° | 1797.0 | 50.0 |
| 0°-180° | 3593.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 7330 | |
| 5° | 6524 | 559 |
| 15° | 2424 | 684 |
| 25° | 587 | 274 |
| 35° | 100 | 69 |
| 45° | 81 | 63 |
| 55° | 74 | 65 |
| 65° | 51 | 49 |
| 75° | 23 | 26 |
| 85° | 8 | 9 |
| 90° | 0 | 1 |
| 95° | 8 | 9 |
| 105° | 23 | 26 |
| 115° | 51 | 49 |
| 125° | 74 | 65 |
| 135° | 81 | 63 |
| 145° | 100 | 69 |
| 155° | 587 | 274 |
| 165° | 2424 | 684 |
| 175° | 6524 | 559 |
| 180° | 7330 | |



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CATALOG NUMBER: 9003-W2-[RW, RI]-LED5080-M-WT-L2-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 7330.0 |
| 1° | 7249.0 |
| 2° | 7139.9 |
| 3° | 6997.6 |
| 4° | 6775.3 |
| 5° | 6523.9 |
| 6° | 6209.1 |
| 7° | 5860.1 |
| 8° | 5448.7 |
| 9° | 4999.9 |
| 10° | 4547.0 |
| 11° | 4085.7 |
| 12° | 3631.8 |
| 13° | 3207.9 |
| 14° | 2798.6 |
| 15° | 2423.6 |
| 16° | 2083.9 |
| 17° | 1807.6 |
| 18° | 1582.1 |
| 19° | 1406.6 |
| 20° | 1275.7 |
| 21° | 1165.6 |
| 22° | 1039.9 |
| 23° | 895.5 |
| 24° | 739.7 |
| 25° | 586.9 |
| 26° | 439.4 |
| 27° | 313.7 |
| 28° | 221.3 |
| 29° | 178.7 |
| 30° | 162.1 |
| 32.5° | 129.9 |
| 35° | 99.7 |
| 37.5° | 89.3 |
| 40° | 85.2 |
| 42.5° | 83.1 |
| 45° | 81.0 |
| 47.5° | 80.0 |
| 50° | 77.9 |
| 52.5° | 76.9 |
| 55° | 73.8 |
| 57.5° | 68.6 |
| 60° | 63.4 |
| 62.5° | 58.2 |
| 65° | 50.9 |



TEST NUMBER: P221520

CATALOG NUMBER: 9003-W2-[RW, RI]-LED5080-M-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 67.5° | 41.6 |
| 70° | 34.3 |
| 72.5° | 27.0 |
| 75° | 22.9 |
| 77.5° | 20.8 |
| 80° | 17.7 |
| 82.5° | 12.5 |
| 85° | 8.3 |
| 87.5° | 4.2 |
| 90° | 0.0 |
| 92.5° | 4.2 |
| 95° | 8.3 |
| 97.5° | 12.5 |
| 100° | 17.7 |
| 102.5° | 20.8 |
| 105° | 22.9 |
| 107.5° | 27.0 |
| 110° | 34.3 |
| 112.5° | 41.6 |
| 115° | 50.9 |
| 117.5° | 58.2 |
| 120° | 63.4 |
| 122.5° | 68.6 |
| 125° | 73.8 |
| 127.5° | 76.9 |
| 130° | 77.9 |
| 132.5° | 80.0 |
| 135° | 81.0 |
| 137.5° | 83.1 |
| 140° | 85.2 |
| 142.5° | 89.3 |
| 145° | 99.7 |
| 147.5° | 129.9 |
| 150° | 162.1 |
| 151° | 178.7 |
| 152° | 221.3 |
| 153° | 313.7 |
| 154° | 439.4 |
| 155° | 586.9 |
| 156° | 739.7 |
| 157° | 895.5 |
| 158° | 1039.9 |
| 159° | 1165.6 |
| 160° | 1275.7 |
| 161° | 1406.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|------|--------|
| 162° | 1582.1 |
| 163° | 1807.6 |
| 164° | 2083.9 |
| 165° | 2423.6 |
| 166° | 2798.6 |
| 167° | 3207.9 |
| 168° | 3631.8 |
| 169° | 4085.7 |
| 170° | 4547.0 |
| 171° | 4999.9 |
| 172° | 5448.7 |
| 173° | 5860.1 |
| 174° | 6209.1 |
| 175° | 6523.9 |
| 176° | 6775.3 |
| 177° | 6997.6 |
| 178° | 7139.9 |
| 179° | 7249.0 |
| 180° | 7330.0 |

(END OF REPORT)