

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: P220808

Luminaire Tested: **9004-W1-[RW, RI]-LED5080-W-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W1-[RW, RI]-LED5080-W-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2698.6 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

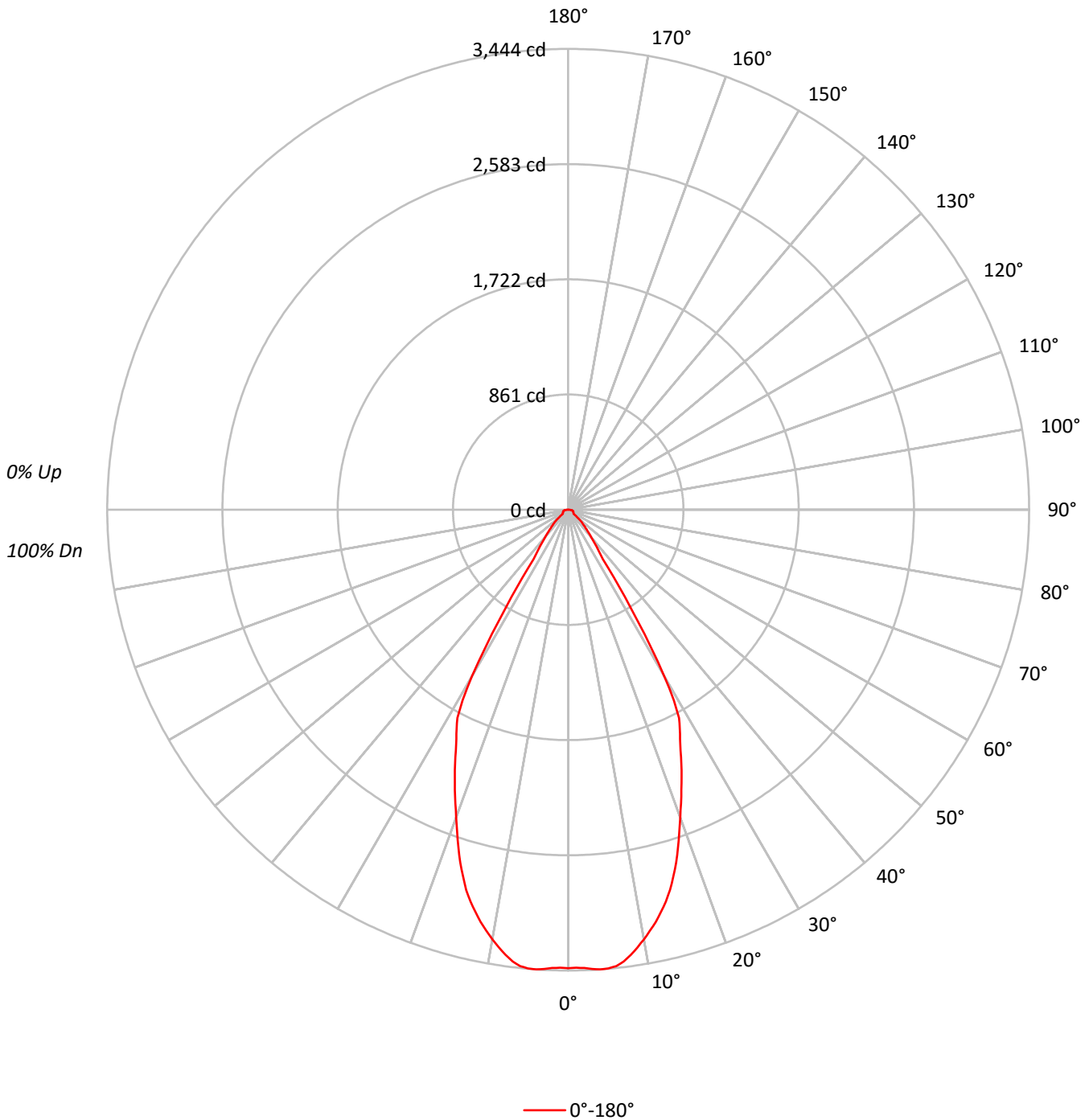
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220808

CATALOG NUMBER: 9004-W1-[RW, RI]-LED5080-W-WT-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P220808

CATALOG NUMBER: 9004-W1-[RW, RI]-LED5080-W-WT-L3-UNV

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 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 94 | 93 |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 97 | 94 | 91 | 94 | 92 | 90 | 92 | 89 | 88 | 86 |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 86 | 91 | 87 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 |
| 4 | 97 | 89 | 84 | 79 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 77 | 73 | 81 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 71 | 70 |
| 6 | 88 | 79 | 73 | 69 | 86 | 78 | 73 | 68 | 77 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 |
| 7 | 84 | 75 | 69 | 64 | 82 | 74 | 68 | 64 | 73 | 68 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 |
| 8 | 80 | 70 | 65 | 61 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 58 |
| 9 | 76 | 67 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 64 | 59 | 56 | 55 |
| 10 | 73 | 63 | 58 | 54 | 72 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 61 | 56 | 53 | 52 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 422718 |
| 5° | 426140 |
| 10° | 408297 |
| 15° | 375684 |
| 20° | 321132 |
| 25° | 270329 |
| 30° | 204326 |
| 35° | 67895 |
| 40° | 43152 |
| 45° | 29358 |
| 50° | 17136 |
| 55° | 10279 |
| 60° | 11274 |
| 65° | 12433 |
| 70° | 14245 |
| 75° | 17347 |
| 80° | 20670 |
| 85° | 20521 |



TEST NUMBER: P220808

CATALOG NUMBER: 9004-W1-[RW, RI]-LED5080-W-WT-L3-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 322.6 | 12.0 |
| 10°-20° | 811.4 | 30.1 |
| 20°-30° | 908.9 | 33.7 |
| 30°-40° | 380.1 | 14.1 |
| 40°-50° | 132.0 | 4.9 |
| 50°-60° | 48.0 | 1.8 |
| 60°-70° | 42.2 | 1.6 |
| 70°-80° | 37.6 | 1.4 |
| 80°-90° | 15.8 | 0.6 |
| 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° | 2042.9 | 75.7 |
| 0°-40° | 2423.0 | 89.8 |
| 0°-60° | 2602.9 | 96.5 |
| 0°-90° | 2698.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2698.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3427 | |
| 5° | 3442 | 323 |
| 15° | 2942 | 811 |
| 25° | 1986 | 909 |
| 35° | 451 | 380 |
| 45° | 168 | 132 |
| 55° | 48 | 48 |
| 65° | 43 | 42 |
| 75° | 36 | 38 |
| 85° | 14 | 16 |
| 90° | 0 | |



TEST NUMBER: P220808

CATALOG NUMBER: 9004-W1-[RW, RI]-LED5080-W-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3427.1 |
| 1° | 3424.0 |
| 2° | 3427.1 |
| 3° | 3437.5 |
| 4° | 3443.7 |
| 5° | 3441.7 |
| 6° | 3429.2 |
| 7° | 3402.2 |
| 8° | 3359.6 |
| 9° | 3311.8 |
| 10° | 3259.9 |
| 11° | 3204.8 |
| 12° | 3148.7 |
| 13° | 3085.3 |
| 14° | 3017.8 |
| 15° | 2942.0 |
| 16° | 2851.6 |
| 17° | 2757.1 |
| 18° | 2655.3 |
| 19° | 2549.3 |
| 20° | 2446.5 |
| 21° | 2350.9 |
| 22° | 2258.4 |
| 23° | 2167.0 |
| 24° | 2077.7 |
| 25° | 1986.3 |
| 26° | 1906.3 |
| 27° | 1835.6 |
| 28° | 1762.9 |
| 29° | 1629.9 |
| 30° | 1434.6 |
| 32.5° | 860.2 |
| 35° | 450.9 |
| 37.5° | 344.9 |
| 40° | 268.0 |
| 42.5° | 208.8 |
| 45° | 168.3 |
| 47.5° | 135.0 |
| 50° | 89.3 |
| 52.5° | 53.0 |
| 55° | 47.8 |
| 57.5° | 46.7 |
| 60° | 45.7 |
| 62.5° | 44.7 |
| 65° | 42.6 |



TEST NUMBER: P220808

CATALOG NUMBER: 9004-W1-[RW, RI]-LED5080-W-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 67.5° | 40.5 |
| 70° | 39.5 |
| 72.5° | 38.4 |
| 75° | 36.4 |
| 77.5° | 33.2 |
| 80° | 29.1 |
| 82.5° | 22.9 |
| 85° | 14.5 |
| 87.5° | 6.2 |
| 90° | 0.0 |

(END OF REPORT)