

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: P221917

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-F-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED5080-F-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4328.5 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

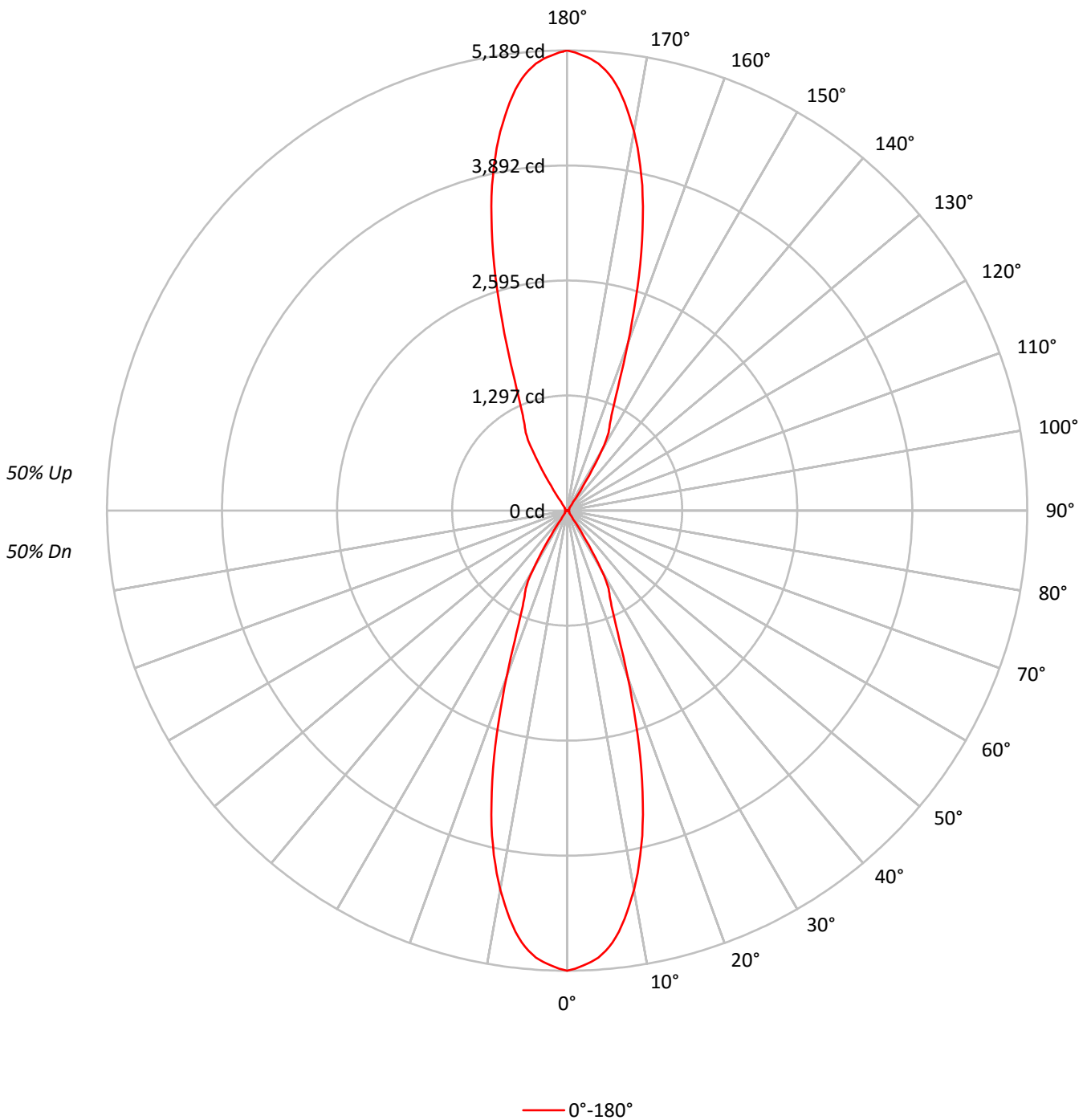
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 74 | 65 | 64 | 63 | 53 | 53 | 52 | 47 |
| 2 | 94 | 88 | 84 | 80 | 87 | 82 | 78 | 75 | 71 | 68 | 66 | 61 | 59 | 57 | 51 | 50 | 49 | 45 |
| 3 | 88 | 81 | 76 | 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 | 65 | 60 | 56 | 58 | 54 | 51 | 51 | 48 | 46 | 45 | 43 | 41 | 39 |
| 6 | 74 | 65 | 58 | 54 | 69 | 61 | 56 | 52 | 55 | 51 | 48 | 49 | 46 | 43 | 43 | 41 | 39 | 37 |
| 7 | 70 | 60 | 54 | 50 | 66 | 57 | 52 | 48 | 52 | 48 | 45 | 46 | 43 | 41 | 41 | 39 | 38 | 35 |
| 8 | 66 | 57 | 51 | 47 | 62 | 54 | 49 | 45 | 49 | 45 | 42 | 44 | 41 | 39 | 39 | 37 | 36 | 34 |
| 9 | 63 | 54 | 48 | 44 | 60 | 51 | 46 | 42 | 46 | 42 | 40 | 42 | 39 | 37 | 38 | 36 | 34 | 33 |
| 10 | 60 | 51 | 45 | 41 | 57 | 48 | 43 | 40 | 44 | 40 | 38 | 40 | 37 | 35 | 37 | 34 | 33 | 31 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 640016 |
| 5° | 617140 |
| 10° | 543428 |
| 15° | 419612 |
| 20° | 261972 |
| 25° | 161288 |
| 30° | 110552 |
| 35° | 17392 |
| 40° | 7874 |
| 45° | 5320 |
| 50° | 5546 |
| 55° | 6043 |
| 60° | 6735 |
| 65° | 7501 |
| 70° | 8691 |
| 75° | 10723 |
| 80° | 12502 |
| 85° | 12454 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 455.0 | 10.5 |
| 10°-20° | 882.4 | 20.4 |
| 20°-30° | 571.4 | 13.2 |
| 30°-40° | 147.0 | 3.4 |
| 40°-50° | 25.1 | 0.6 |
| 50°-60° | 25.4 | 0.6 |
| 60°-70° | 25.5 | 0.6 |
| 70°-80° | 22.9 | 0.5 |
| 80°-90° | 9.6 | 0.2 |
| 90°-100° | 9.6 | 0.2 |
| 100°-110° | 22.9 | 0.5 |
| 110°-120° | 25.5 | 0.6 |
| 120°-130° | 25.4 | 0.6 |
| 130°-140° | 25.1 | 0.6 |
| 140°-150° | 147.0 | 3.4 |
| 150°-160° | 571.4 | 13.2 |
| 160°-170° | 882.4 | 20.4 |
| 170°-180° | 455.0 | 10.5 |
| 0°-30° | 1908.8 | 44.1 |
| 0°-40° | 2055.8 | 47.5 |
| 0°-60° | 2106.3 | 48.7 |
| 0°-90° | 2164.2 | 50.0 |
| 90°-120° | 58.0 | 1.3 |
| 90°-150° | 255.4 | 5.9 |
| 90°-180° | 2164.0 | 50.0 |
| 0°-180° | 4328.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 5189 | |
| 5° | 4984 | 455 |
| 15° | 3286 | 882 |
| 25° | 1185 | 571 |
| 35° | 116 | 147 |
| 45° | 30 | 25 |
| 55° | 28 | 25 |
| 65° | 26 | 25 |
| 75° | 22 | 23 |
| 85° | 9 | 9 |
| 90° | 0 | 1 |
| 95° | 9 | 9 |
| 105° | 22 | 23 |
| 115° | 26 | 25 |
| 125° | 28 | 25 |
| 135° | 30 | 25 |
| 145° | 116 | 147 |
| 155° | 1185 | 571 |
| 165° | 3286 | 882 |
| 175° | 4984 | 455 |
| 180° | 5189 | |



TEST NUMBER: P221917

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-WT-L2-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 5188.8 |
| 1° | 5165.5 |
| 2° | 5135.0 |
| 3° | 5098.9 |
| 4° | 5052.4 |
| 5° | 4984.3 |
| 6° | 4897.7 |
| 7° | 4784.6 |
| 8° | 4649.1 |
| 9° | 4498.4 |
| 10° | 4338.8 |
| 11° | 4164.0 |
| 12° | 3971.6 |
| 13° | 3763.1 |
| 14° | 3534.5 |
| 15° | 3286.0 |
| 16° | 3029.4 |
| 17° | 2765.6 |
| 18° | 2501.0 |
| 19° | 2240.4 |
| 20° | 1995.8 |
| 21° | 1772.1 |
| 22° | 1577.2 |
| 23° | 1412.9 |
| 24° | 1283.8 |
| 25° | 1185.1 |
| 26° | 1107.4 |
| 27° | 1047.2 |
| 28° | 996.7 |
| 29° | 908.5 |
| 30° | 776.2 |
| 32.5° | 388.1 |
| 35° | 115.5 |
| 37.5° | 73.8 |
| 40° | 48.9 |
| 42.5° | 31.3 |
| 45° | 30.5 |
| 47.5° | 29.7 |
| 50° | 28.9 |
| 52.5° | 28.9 |
| 55° | 28.1 |
| 57.5° | 28.1 |
| 60° | 27.3 |
| 62.5° | 26.5 |
| 65° | 25.7 |



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CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 67.5° | 24.9 |
| 70° | 24.1 |
| 72.5° | 23.3 |
| 75° | 22.5 |
| 77.5° | 20.0 |
| 80° | 17.6 |
| 82.5° | 13.6 |
| 85° | 8.8 |
| 87.5° | 4.0 |
| 90° | 0.0 |
| 92.5° | 4.0 |
| 95° | 8.8 |
| 97.5° | 13.6 |
| 100° | 17.6 |
| 102.5° | 20.0 |
| 105° | 22.5 |
| 107.5° | 23.3 |
| 110° | 24.1 |
| 112.5° | 24.9 |
| 115° | 25.7 |
| 117.5° | 26.5 |
| 120° | 27.3 |
| 122.5° | 28.1 |
| 125° | 28.1 |
| 127.5° | 28.9 |
| 130° | 28.9 |
| 132.5° | 29.7 |
| 135° | 30.5 |
| 137.5° | 31.3 |
| 140° | 48.9 |
| 142.5° | 73.8 |
| 145° | 115.5 |
| 147.5° | 388.1 |
| 150° | 776.2 |
| 151° | 908.5 |
| 152° | 996.7 |
| 153° | 1047.2 |
| 154° | 1107.4 |
| 155° | 1185.1 |
| 156° | 1283.8 |
| 157° | 1412.9 |
| 158° | 1577.2 |
| 159° | 1772.1 |
| 160° | 1995.8 |
| 161° | 2240.4 |



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CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|------|--------|
| 162° | 2501.0 |
| 163° | 2765.6 |
| 164° | 3029.4 |
| 165° | 3286.0 |
| 166° | 3534.5 |
| 167° | 3763.1 |
| 168° | 3971.6 |
| 169° | 4164.0 |
| 170° | 4338.8 |
| 171° | 4498.4 |
| 172° | 4649.1 |
| 173° | 4784.6 |
| 174° | 4897.7 |
| 175° | 4984.3 |
| 176° | 5052.4 |
| 177° | 5098.9 |
| 178° | 5135.0 |
| 179° | 5165.5 |
| 180° | 5188.8 |

(END OF REPORT)