



T e s t R e p o r t

Report No : L15101
Client: : Holophane Europe Ltd
Bond Ave
Bletchley
Milton Keynes
MK1 1JG
Description : V-Max Street lighting luminaire with 128 LEDs driven by
1x150W and 1x75W Philips Xitanium drivers
Manufacturer : Holophane Europe Ltd
Type/Model : VMX.L204.V8
Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 14.0 (17/12/2014)
Date Testing Started : 10/04/15
Conclusion : Refer to body of Report
Date of Issue : 26/05/15
Date of Expiry : 25/05/20

Checked by: J.ADAMS
Position: Laboratory Supervisor

Approved by: T.MALIK
Position: Quality Accreditation &
Certification Officer



INTRODUCTION

The products identified in table 1 were tested at the premises of Holophane Europe Ltd for measurement of power consumption in accordance with the “Unmetered Supplies Operational Information” document – Version 14.0 (17/12/2014).

PRODUCT DETAILS

Table 1. *Test Sample Details*

| | |
|---|---|
| Product Description | V-Max Street lighting luminaire with 128 LEDs driven by 1x150W and 1x75W Philips Xitanium drivers |
| Model No. | VMX.L204.V8 |
| Number of Samples | 5 |
| Nominal Dimensions | L - 1140mm, W - 340mm, H - 80mm |
| Product Supply Requirement | 230V AC 50Hz |
| Lamp Type and Power | LED - 205W |
| Sampling Method: Test samples randomly selected and supplied by client. | |

The customer has declared that the equipment load does not vary with ambient temperature.

Continued on following page



RESULTS

Table 2. Wattage and VA results for V-Max Street lighting luminaire with 128 LEDs driven by 1x150W and 1x75W Philips Xitanium drivers

| | | | | | |
|--------------------------------------|---------------------|--------|--------|--------|--------|
| Operating Mode | 525mA Drive Current | | | | |
| Watts | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 204.61 | 205.71 | 204.44 | 204.89 | 202.63 |
| 220 | 204.06 | 204.93 | 203.97 | 204.28 | 202.08 |
| 230 | 203.55 | 204.25 | 203.54 | 203.89 | 201.65 |
| 240 | 203.29 | 203.89 | 203.30 | 203.38 | 201.35 |
| 250 | 203.28 | 203.81 | 203.26 | 203.47 | 201.28 |
| VA | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 208.79 | 209.27 | 208.40 | 208.83 | 206.63 |
| 220 | 208.86 | 209.62 | 208.54 | 208.90 | 206.78 |
| 230 | 209.10 | 209.69 | 208.83 | 209.31 | 207.15 |
| 240 | 209.61 | 210.12 | 209.35 | 209.66 | 207.70 |
| 250 | 210.56 | 211.01 | 210.28 | 210.57 | 208.45 |
| Power Factor | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| 220 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| 230 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| 240 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| 250 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| | | | | | |
| Ambient Temperature During Test (°C) | 25.6 | | | | |
| PF Leading/Lagging | Leading | | | | |

Continued on following page



RESULTS

Table 3. Wattage and VA results for V-Max Street lighting luminaire with 128 LEDs driven by 1x150W and 1x75W Philips Xitanium drivers

| | | | | | |
|--------------------------------------|---------------------|--------|--------|--------|--------|
| Operating Mode | 420mA Drive Current | | | | |
| Watts | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 162.52 | 162.90 | 162.40 | 161.99 | 160.10 |
| 220 | 162.65 | 162.94 | 162.48 | 161.95 | 160.14 |
| 230 | 162.77 | 163.00 | 162.59 | 162.05 | 160.21 |
| 240 | 162.93 | 163.11 | 162.74 | 162.17 | 160.30 |
| 250 | 162.81 | 163.00 | 162.68 | 162.09 | 160.19 |
| VA | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 167.20 | 167.44 | 166.84 | 166.44 | 164.62 |
| 220 | 167.96 | 168.16 | 167.58 | 167.20 | 165.46 |
| 230 | 168.90 | 169.05 | 168.50 | 168.03 | 166.25 |
| 240 | 169.93 | 170.05 | 169.51 | 168.99 | 167.19 |
| 250 | 170.93 | 171.06 | 170.54 | 169.95 | 168.12 |
| Power Factor | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| 220 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| 230 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| 240 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| 250 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| | | | | | |
| Ambient Temperature During Test (°C) | 25.7 | | | | |
| PF Leading/Lagging | Leading | | | | |

Continued on following page



RESULTS

Table 4. Wattage and VA results for V-Max Street lighting luminaire with 128 LEDs driven by 1x150W and 1x75W Philips Xitanium drivers

| | | | | | |
|--------------------------------------|---------------------|--------|--------|--------|--------|
| Operating Mode | 315mA Drive Current | | | | |
| Watts | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 123.67 | 123.60 | 123.41 | 122.09 | 120.41 |
| 220 | 123.76 | 123.66 | 123.49 | 122.20 | 120.52 |
| 230 | 123.82 | 123.65 | 123.52 | 122.41 | 120.58 |
| 240 | 124.03 | 123.81 | 123.72 | 122.52 | 120.76 |
| 250 | 124.25 | 123.99 | 123.94 | 122.66 | 120.91 |
| VA | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 128.96 | 128.83 | 128.50 | 127.21 | 125.58 |
| 220 | 129.72 | 129.56 | 129.25 | 128.11 | 126.49 |
| 230 | 130.64 | 130.43 | 130.14 | 129.12 | 127.35 |
| 240 | 131.88 | 131.63 | 131.36 | 130.31 | 128.59 |
| 250 | 133.26 | 132.97 | 132.71 | 131.49 | 129.77 |
| Power Factor | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| 220 | 0.95 | 0.95 | 0.96 | 0.95 | 0.95 |
| 230 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| 240 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| 250 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| | | | | | |
| Ambient Temperature During Test (°C) | 25.6 | | | | |
| PF Leading/Lagging | Leading | | | | |

Continued on following page



RESULTS

Table 5. Wattage and VA results for V-Max Street lighting luminaire with 128 LEDs driven by 1x150W and 1x75W Philips Xitanium drivers

| | | | | | |
|--------------------------------------|---------------------|-------|-------|-------|-------|
| Operating Mode | 210mA Drive Current | | | | |
| Watts | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 84.80 | 83.97 | 84.04 | 82.24 | 80.60 |
| 220 | 84.71 | 84.15 | 84.25 | 82.46 | 80.80 |
| 230 | 84.96 | 84.37 | 84.51 | 82.69 | 81.02 |
| 240 | 85.26 | 84.64 | 84.82 | 82.91 | 81.25 |
| 250 | 85.59 | 84.93 | 85.15 | 83.23 | 81.54 |
| VA | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 90.84 | 90.28 | 90.22 | 88.51 | 86.91 |
| 220 | 91.91 | 91.32 | 91.27 | 89.71 | 88.09 |
| 230 | 93.12 | 92.52 | 92.50 | 91.00 | 89.38 |
| 240 | 94.61 | 94.00 | 94.02 | 92.33 | 90.70 |
| 250 | 96.51 | 95.89 | 95.91 | 94.22 | 92.58 |
| Power Factor | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| 220 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| 230 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| 240 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| 250 | 0.89 | 0.89 | 0.89 | 0.88 | 0.88 |
| | | | | | |
| Ambient Temperature During Test (°C) | 25.8 | | | | |
| PF Leading/Lagging | Leading | | | | |

Continued on following page



RESULTS

Table 6. Wattage and VA results for V-Max Street lighting luminaire with 128 LEDs driven by 1x150W and 1x75W Philips Xitanium drivers

| | | | | | |
|--------------------------------------|---------------------|-------|-------|-------|-------|
| Operating Mode | 105mA Drive Current | | | | |
| Watts | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 47.18 | 46.01 | 46.59 | 44.34 | 43.19 |
| 220 | 47.33 | 46.15 | 46.75 | 44.50 | 43.23 |
| 230 | 47.62 | 46.41 | 46.99 | 44.69 | 43.44 |
| 240 | 47.87 | 46.63 | 47.22 | 44.90 | 43.60 |
| 250 | 48.09 | 46.82 | 47.35 | 45.05 | 43.88 |
| VA | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 55.33 | 54.30 | 54.77 | 52.81 | 51.76 |
| 220 | 56.73 | 55.71 | 56.14 | 54.23 | 53.25 |
| 230 | 58.66 | 57.74 | 58.23 | 55.93 | 54.92 |
| 240 | 60.62 | 59.73 | 59.93 | 58.21 | 57.21 |
| 250 | 62.38 | 61.24 | 62.34 | 60.55 | 59.57 |
| Power Factor | | | | | |
| Voltage | Sample Number | | | | |
| | 1 | 2 | 3 | 4 | 5 |
| 210 | 0.85 | 0.85 | 0.85 | 0.84 | 0.83 |
| 220 | 0.83 | 0.83 | 0.83 | 0.82 | 0.81 |
| 230 | 0.81 | 0.80 | 0.81 | 0.80 | 0.79 |
| 240 | 0.79 | 0.78 | 0.79 | 0.77 | 0.76 |
| 250 | 0.77 | 0.76 | 0.76 | 0.74 | 0.74 |
| | | | | | |
| Ambient Temperature During Test (°C) | 25.7 | | | | |
| PF Leading/Lagging | Leading | | | | |

Continued on following page

DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

The following expanded uncertainties apply to the measurements shown in the results;

Power $\pm 0.879\%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Continued on following page

ILLUSTRATIONS

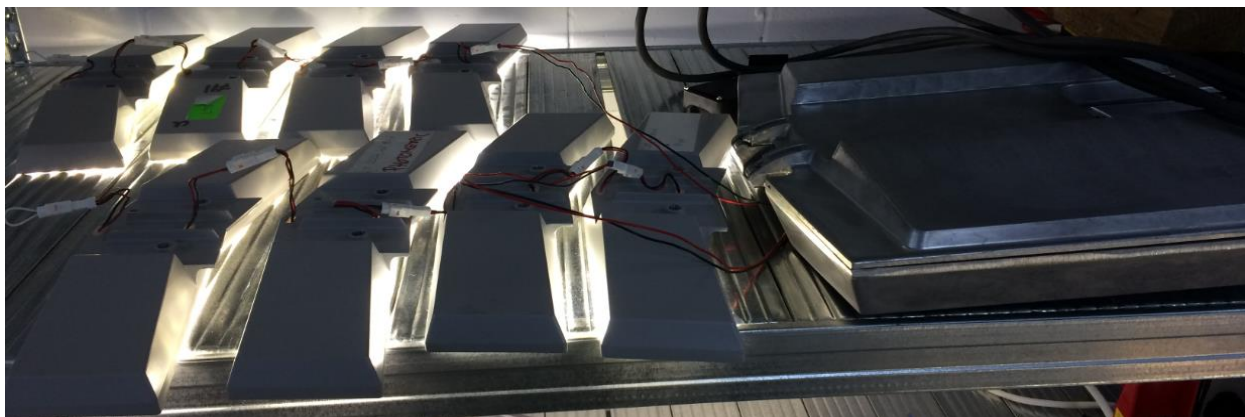


Figure 1. *Product image*

End