



## T e s t   R e p o r t

**Report No** : L14618  
**Client:** : Vision Distribution Ltd  
Unit 1, Park Court  
Team Valley, Gateshead, NE110EH  
**Description** : Street Lights  
**Manufacturer** : Not Disclosed  
**Type/Model** : T1273-V1.90 PTSE-PRL, T1274-V1.120 PTSE-PRL,  
ZD316a-LED030HT-5700W1/220, and ZD316-45W Street  
Light 235V 5700K  
**Test Specification** : Measurement of power consumption in accordance with the  
“Unmetered Supplies Operational Information” document –  
Version 13.0 (7/11/13)  
**Date Tested** : 22/10/14  
**Conclusion** : Refer to body of Report  
**Date of Issue** : 18/11/14  
**Date of Expiry** : 17/11/19

**Tested by:** P.SARGENT  
**Position:** Laboratory Engineer

**Approved by:** K.GOVINDEN  
**Position:** Technical Engineer



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These test results relate only to the unit(s) tested. This Report and any subsequent report(s) may not be reproduced except in full without the written approval of the Testing Laboratory.

## **INTRODUCTION**

Vision Distribution Ltd has supplied the product identified in table 1 for measurement of power consumption in accordance with the "Unmetered Supplies Operational Information" document – Version 13.0 (7/11/13).

## **PRODUCT DETAILS**

**Table 1. Test Sample Details**

Product Description	LED street light 90 Watt
Model No.	T1273-V1.90 PTSE-PRL
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	Not Applicable
Product Supply Requirement	240V 50Hz
Lamp Type and Power	LED
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

## **RESULTS**

**Table 2. Wattage and VA results for LED street light (T1273-V1.90 PTSE-PRL)**

<b>Operating Mode</b>	LED street light (T1273-V1.90 PTSE-PRL)				
<b>Watts</b>	100%				
Voltage	Sample Number				
	1	2	3	4	5
210	92.31	96.69	92.37	93.49	96.24
220	92.04	96.60	92.16	93.93	96.18
230	91.78	96.55	92.02	94.55	96.13
240	91.56	96.43	91.86	94.88	96.04
250	91.40	96.40	91.78	95.12	95.92
<b>VA</b>					
Voltage	Sample Number				
	1	2	3	4	5
210	96.98	101.27	97.15	98.30	101.12
220	97.73	102.12	97.85	99.64	102.00
230	98.72	103.57	98.80	101.61	103.39
240	101.38	105.76	100.55	104.83	105.76
250	104.08	108.05	103.83	107.21	106.99

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This page is to be read in conjunction with the first page of this report

## **PRODUCT DETAILS**

**Table 3. Test Sample Details**

Product Description	LED street light 120 Watt
Model No.	T1274-V1.120 PTSE-PRL
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	Not Applicable
Product Supply Requirement	240V 50Hz
Lamp Type and Power	LED
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

## **RESULTS**

**Table 4. Wattage and VA results for Version 1.120 120W LED Luminaire**

<b>Operating Mode</b>	LED street light 120 Watt				
<b>Watts</b>	100%				
Voltage	Sample Number				
	1	2	3	4	5
210	114.05	119.56	117.74	121.80	117.11
220	114.41	121.29	119.76	121.25	117.09
230	115.17	121.74	120.36	122.38	118.83
240	115.84	122.41	121.24	123.07	119.45
250	117.15	123.71	123.30	124.18	120.94
<b>VA</b>					
Voltage	Sample Number				
	1	2	3	4	5
210	117.93	124.31	121.59	125.67	120.89
220	119.01	126.71	124.38	125.97	121.86
230	121.08	128.71	126.20	128.71	124.83
240	125.39	132.80	130.98	131.71	127.64
250	127.59	135.32	134.09	133.45	130.54

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## **PRODUCT DETAILS**

**Table 5. Test Sample Details**

Product Description	LED street light
Model No.	ZD316a-LED030HT-5700W1/220
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	Not Applicable
Product Supply Requirement	240V 50Hz
Lamp Type and Power	LED
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

## **RESULTS**

**Table 6. Wattage and VA results for LED street light (ZD316a-LED030HT-5700W1/220)**

<b>Operating Mode</b>	LED street light				
<b>Watts</b>	100%				
Voltage	Sample Number				
	1	2	3	4	5
210	29.80	29.20	30.32	29.57	30.86
220	29.90	29.38	30.52	29.72	30.84
230	30.15	29.68	30.86	29.97	30.99
240	30.52	30.09	31.30	30.38	31.32
250	30.95	30.56	31.81	30.81	31.69
<b>VA</b>					
Voltage	Sample Number				
	1	2	3	4	5
210	30.29	29.68	30.80	30.06	31.34
220	30.43	29.90	31.04	30.25	31.36
230	30.73	30.26	31.43	30.56	31.57
240	31.18	30.75	31.95	31.04	31.98
250	31.71	31.30	32.55	31.56	32.45

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## **PRODUCT DETAILS**

**Table 7. Test Sample Details**

Product Description	LED street light
Model No.	ZD316-45W Street Light 235V 5700K
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	Not Applicable
Product Supply Requirement	240V 50Hz
Lamp Type and Power	LED
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

## **RESULTS**

**Table 8. Wattage and VA results for LED street light (ZD316-45W 235V 5700K)**

<b>Operating Mode</b>	LED street light				
<b>Watts</b>	100%				
Voltage	Sample Number				
	1	2	3	4	5
210	43.83	42.98	43.92	44.03	43.72
220	44.70	44.25	44.11	44.36	45.06
230	45.62	45.29	44.59	44.78	45.86
240	46.42	46.14	45.18	45.37	46.56
250	47.16	46.82	45.88	46.10	47.36
<b>VA</b>					
Voltage	Sample Number				
	1	2	3	4	5
210	44.72	44.58	44.52	44.64	44.59
220	45.54	45.54	44.71	44.98	45.89
230	46.41	45.81	45.25	45.44	46.65
240	47.19	46.41	45.91	46.09	47.33
250	47.94	47.04	46.69	46.92	48.14

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### **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;

True Power (W):  $\pm 0.69\%$ , Apparent Power (VA):  $\pm 0.61\%$

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.

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## ILLUSTRATION

90W



120W



30W



45W



Figure 1. *Image of tested samples*

End