



C E R T I F I C A T E
of Conformity
EC Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AE 50343917 0001

Report No.: 17051815 001

Holder: New Wisdom Investment Limited
1/4F No.9, ZhangBei Avenue,
LongCheng Street, LongGang District
ShenZhen City, GuangDong Province
P.R. China

Product: LED-Lamp
(LED safety cap lamp)

Identification: Type Designation: KL4MS KL5M KL5MS KL8M
KL8MS KL12M KL12MS
Serial No. : n.a.
Remark: Refer to above-listed test report for details.

Tested acc. to: EN 55015:2013
EN 61547:2009

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.



Date 17.05.2016

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. **CE**

New Wisdom Investment Limited

Date : 17.05.2016
Our ref. : SUTIG 02
Your ref.:

1/4F No.9, ZhangBei Avenue,
LongCheng Street, LongGang District
ShenZhen City, GuangDong Province
P.R. China

Ref : AE Certificate of Conformity EMC

Type of Equipment : LED safety cap lamp
Model Designation : See Certificate
Certificate No. : AE 50343917 0001
Report No. : 17051815 001

Dear Ladies and Gentlemen,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.




With kind regards,

Certification Body

Johnny Lau

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

Prüfbericht-Nr.: <i>Test Report No.:</i>	17051815 001	Auftrags-Nr.: <i>Order No.:</i>	164041503	Seite 1 von 16 <i>Page 1 of 16</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	613075	Auftragsdatum: <i>Order date.:</i>	23 Jul. 2015	
Auftraggeber: <i>Client:</i>	New Wisdom Investment Limited 1/4F No.9, ZhangBei Avenue, LongCheng Street, LongGang District, ShenZhen City, GuangDong Province, P.R. China			
Prüfgegenstand: <i>Test item:</i>	LED safety cap lamp			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	KL4MS, KL5M, KL5MS, KL8M, KL8MS, KL12M, KL12MS			
Auftrags-Inhalt: <i>Order content:</i>	TUV Rheinland - EMC service			
Prüfgrundlage: <i>Test specification:</i>	EN 55015:2013 EN 61547:2009			
Wareneingangsdatum: <i>Date of receipt:</i>	23 July 2015			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000231947-001			
Prüfzeitraum: <i>Testing period:</i>	Refer to test report			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 2.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd. 3&4 F, Cybio Technology Building No. 1, Langshan No. 2 Road South, 5th Industrial Area, High-Tech Industry Park North, Nanshan District, 518057, Shenzhen, P. R. China			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
08.09.2015	Dylan Yang Project Engineer		08.09.2015	Tongle Lee Assistant Manager
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>
				
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
<p>* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested</p>				
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

TEST SUMMARY

5.1.1 RADIATED ELECTROMAGNETIC DISTURBANCES*RESULT: Pass***5.2.1 RADIATED ELECTROMAGNETIC DISTURBANCES***RESULT: Pass***6.2.1 RADIO-FREQUENCY ELECTROMAGNETIC FIELD (RS)***RESULT: Pass***6.3.1 ELECTROSTATIC DISCHARGES (ESD)***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

Appendix 2: Measurement uncertainties

2. Test Sites

2.1 Test Facilities

Accurate Technology Co., Ltd. (ATC)
F1, Bldg. A, Changyuan New Material Port, Keyuan Road, Science & Industry Park,
Nanshan 518057 Shenzhen, P.R. China
and

Shenzhen Academy of Metrology and Quality Inspection (SMQ)
NETC Building, No. 4 Tongfa Rd., Xili, Nanshan, Shenzhen, China

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Radiated Electromagnetic Disturbance(9k-30MHz) (ATC)				
EMI Test Receiver	Rohde & Schwarz	ESPI-3	100396/003	2016-01-10
Three Loops Antenna	Compliance Direction system	LASM-2	LASM2-X001	2016-01-10
Radiated Electromagnetic Disturbance(30M-300MHz) (ATC)				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2016-01-10
Test Receiver	R&S	ESCS30	100307	2016-01-10
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2016-01-10
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2016-01-10
RF Coaxial Cable	Schwarzbeck	N-5m	No.1	2016-01-10
RF Coaxial Cable	Schwarzbeck	N-1m	No.6	2016-01-10
Radio-Frequency Electromagnetic Field Amplitude Modulated (SMQ)				
Signal Generator	R&S	SMT03	100059	2016-01-10
Voltage Probe	R&S	URV5-Z2	100012	2016-01-10
Voltage Probe	R&S	URV5-Z2	100013	2016-01-10
Field Probe	ETS	HI-6005	121578	2016-04-20
Power Amplifier	AR	250W1000A	335304	2016-01-10
Power Amplifier	MILMEGA	AS0860-75/45	1040084	2016-01-10
Power Meter	R&S	NRVD	100041	2016-01-20
Antenna	AR	AT1080	28568	2016-01-20
Horn Antenna	AR	AT4002A	305754	2016-01-20
ESD (ATC)				
ESD Tester	HAEFELY	PESD1610	H4001552	2016-01-10

3. General Product Information

3.1 Product Function and Intended Use

The EUTs (**E**quipments **U**nder **T**est) are LED safety cap lamps for illumination purpose.

The EUTs have seven models for market and all models have same circuit diagram, PCB layout except battery capacity and rated power. Refer to model list as below table for details.

Model list:

Model	Battery capacity	Rated power
KL4MS	4.4Ah	1.14W
KL5M	6.6Ah	1.65W
KL5MS	6.6Ah	1.65W
KL8M	8.8Ah	2.25W
KL8MS	8.8Ah	2.25W
KL12M	12.4Ah	3.00W
KL12MS	12.4Ah	3.00W

For more information refer to the Circuit Diagram & User Manual.

3.2 Ratings and System Details

System Input Voltage:	AC 230V, 50Hz (Via AC/DC adapter) or DC 3.7V (Via built-in battery)
Frequency:	--
Rated output:	DC 5V or DC 3.7V
Protection class:	III

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Charging
 - 2. Lighting on
- B. Off

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3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Circuit Diagram
- Rating Label
- User Manual
- PCB Layout

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in section 5 & 6.
Tests were applied to model KL4MS, due to models' difference indicated in section 3.1.
Pre-test in all operation modes, and find out the worst case for compliance test.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessory:

Item	Manufacturer	Model No.	S/N
AC/DC Adapter	Apple	A1401	N/A

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Radiated Electromagnetic Disturbances

RESULT:**Pass**

Date of testing : 2015-08-19
Test standard : EN 55015:2013
Frequency range : 0.009 – 30MHz
Limits : Table 3a
Kind of test site : Shielded room

Test setup

Input Voltage : AC 230V, 50Hz or DC 3.7V
Operation Condition : According to Clause 6, 9.1 & 9.4
Operation mode : A
Earthing : Not connected

Refer to attached Appendix 1.

5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Electromagnetic Disturbances

RESULT:**Pass**

Date of testing : 2015-08-19
Test standard : EN 55015:2013
Frequency range : 30 – 300MHz
Limits : Table 3b of EN 55015:2013
Kind of test site : 3m semi-anechoic chamber

Test setup:

Input Voltage : AC 230V, 50Hz or DC 3.7V
Operation Condition : According to Clause 6 & 9.2 of EN 55015:2013
Operation mode : A
Earthing : Not connected

Refer to attached Appendix 1.

Remark: The measured result is below the specification limit by a margin less than the measurement uncertainty (the minimum margin is 2.2dB tested on Vertical of Charing mode and the test lab's measurement uncertainty of this test is 4.42dB); it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance is more probable than non-compliance with the specification limit. And as the test lab's measurement uncertainty of this test item is less than Ucispr (5.2dB), (Ucispr - the uncertainty recommended by CISPR (5.2dB), therefore the EUT is deemed to comply with the disturbance limit according to Clause 4.1 of CISPR 16-4-2: 2003. Above situation was awarded to the client, and it was considered as acceptable by the client as well.

6. Test Results IMMUNITY

6.1 Classification of apparatus

According to EN 61547:2009, the EUTs belong to Luminaires and shall be tested in accordance with clause 5 and comply with the performance criterion of table 15.

Continuous Disturbance

Radio-Frequency Electromagnetic Fields (RS)
Power Frequency Magnetic Fields *

Criterion A
Criterion A

Transient Disturbance

Electrostatic Discharges (ESD)

Criterion B

Note: The EUTs do not contain devices susceptible to magnetic fields; therefore the Power-Frequency Magnetic Fields test is not necessary.

6.2 Continuous Disturbances

6.2.1 Radio-Frequency Electromagnetic Field (RS)

RESULT:**Pass**

Date of Testing : 2015-09-02
Test Specification : EN 61547:2009 Table 2
Basic Standard : IEC 61000-4-3:2006
Criterion : A
Frequency Range : 80 – 1,000MHz
Test Level : 3V/m (Unmodulated, rms)
Modulation : 80% AM, 1kHz

Test setup

Input Voltage : AC 230V, 50Hz or DC 3.7V
Operation Mode : A
Earthing : Not connected
Ambient Temperature : See Appendix 1
Relative Humidity : See Appendix 1
Atmospheric Pressure : See Appendix 1

Refer to attached Appendix 1.

6.3 Transient Disturbances

6.3.1 Electrostatic Discharges (ESD)

RESULT: **Pass**

Date of testing	:	2015-09-02
Test Specification	:	EN 61547:2009 Table 1
Basic Standard	:	IEC 61000-4-2:2008
Criterion	:	B
Charge voltage	:	Level 3 ($\pm 8\text{kV}$) (air discharge) Level 2 ($\pm 4\text{kV}$) (contact discharge)
Number of discharges	:	>10

Test Setup

Input Voltage	:	AC 230V, 50Hz or DC 3.7V
Operation Mode	:	A
Earthing	:	Not connected
Ambient temperature	:	See Appendix 1
Relative humidity	:	See Appendix 1
Atmospheric pressure	:	See Appendix 1

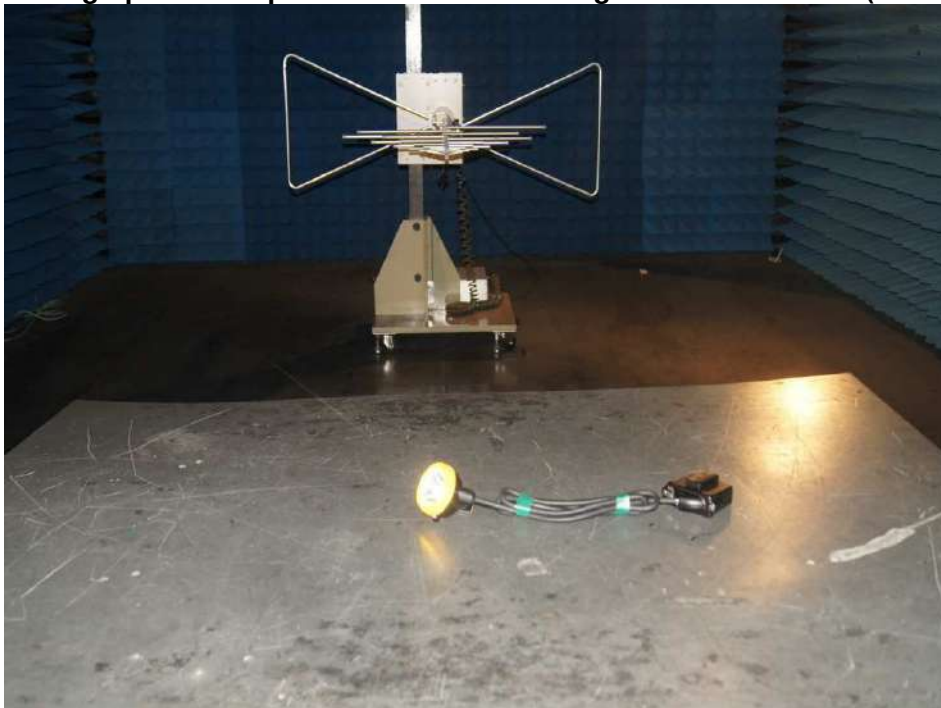
Refer to attached Appendix 1.

7. Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Electromagnetic Disturbances (Table 3a)



Photograph 2: Set-up for Radiated Electromagnetic Disturbances (Table 3b)



Photograph 3: Set-up for Radio-Frequency Electromagnetic Field (RS)



Photograph 4: Set-up for Electrostatic Discharges (ESD)

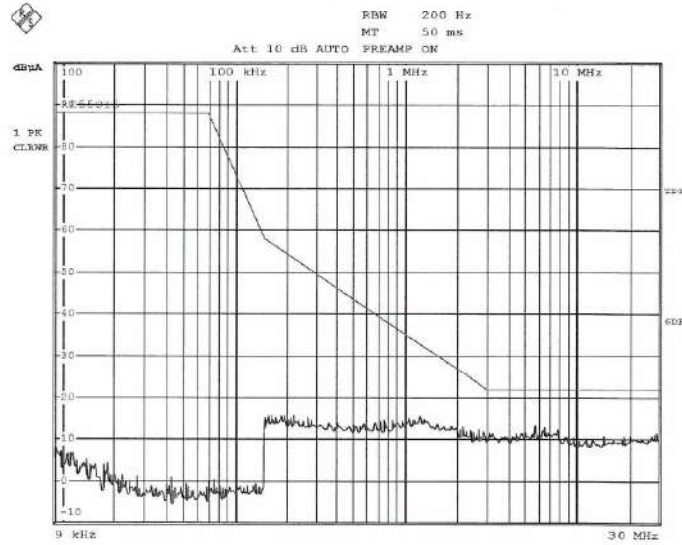


8. List of Tables

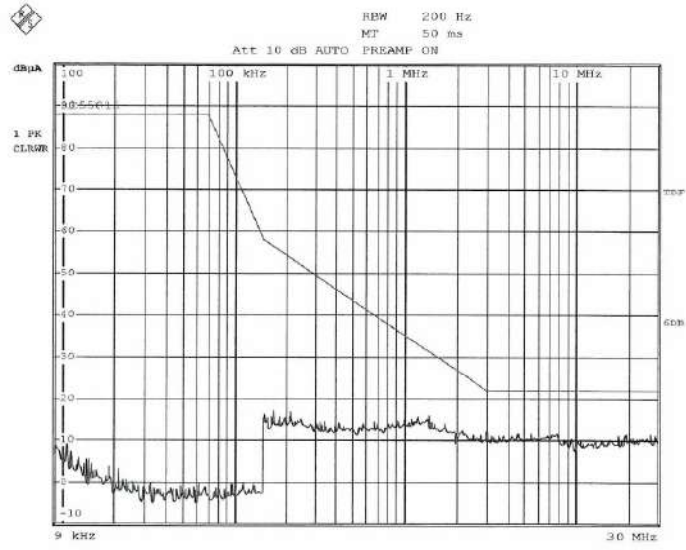
Table 1: List of Test and Measurement Equipment.....	6
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9. List of Photographs

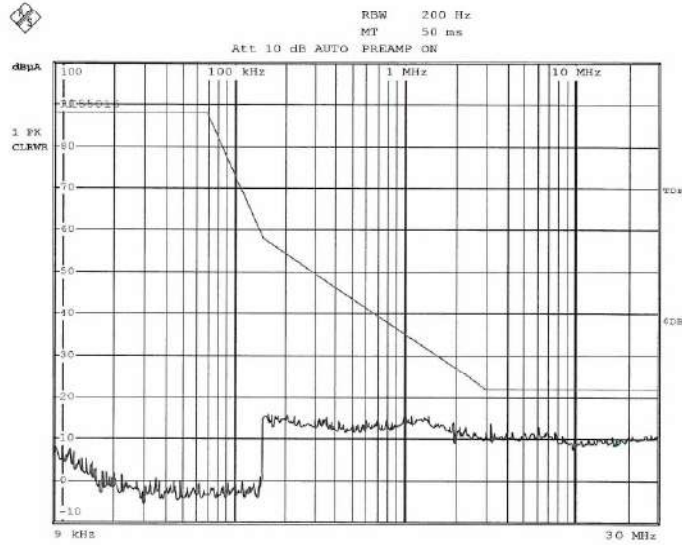
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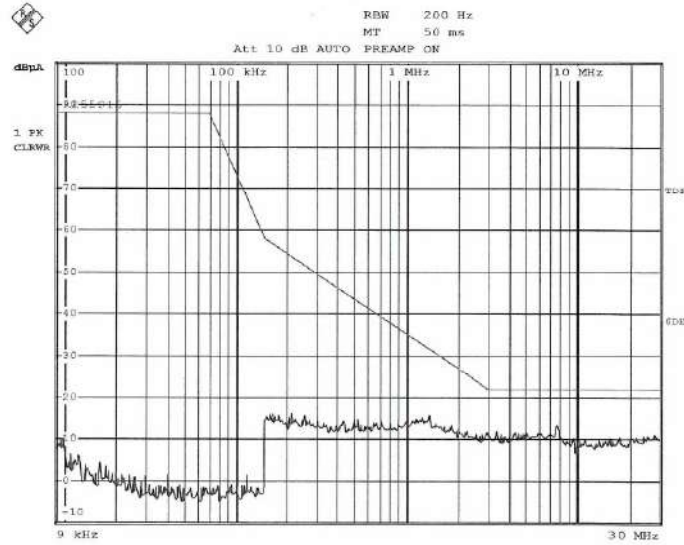
EUT:LED safety cap lamp M/N:KL4MS Test mode:Charging and on Power:AC 230V/50Hz X



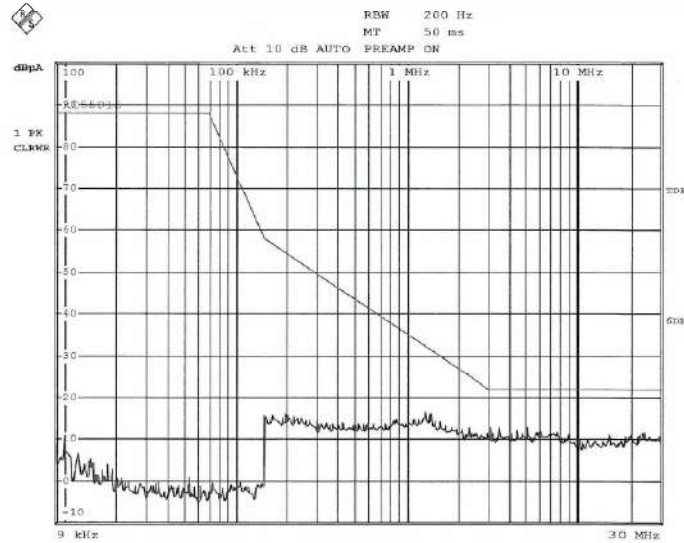
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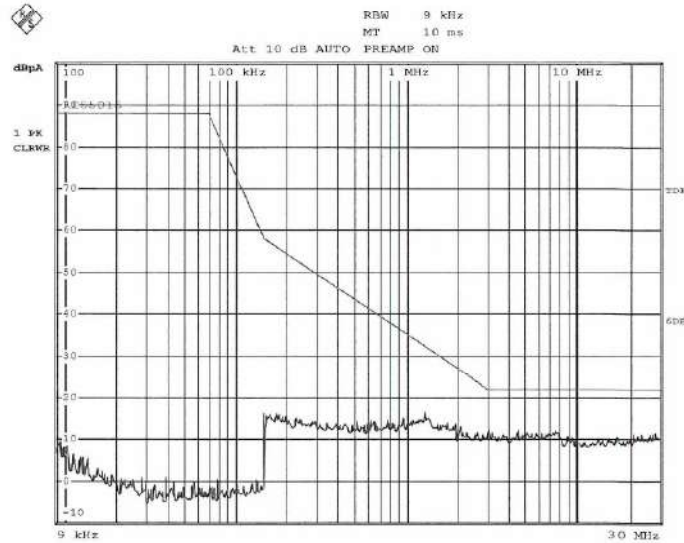
EUT:LED safety cap lamp M/N:KL4MS Test mode:Charging and on Power:AC 230V/50Hz Z



EUT:LED safety cap lamp M/N:KL4MS Test mode:On Power:DC 3.7V X



EUT:LED safety cap lamp M/N:KL4MS Test mode:On Power:DC 3.7V Y



EUT:LED safety cap lamp M/N:KL4MS Test mode:On Power:DC 3.7V Z



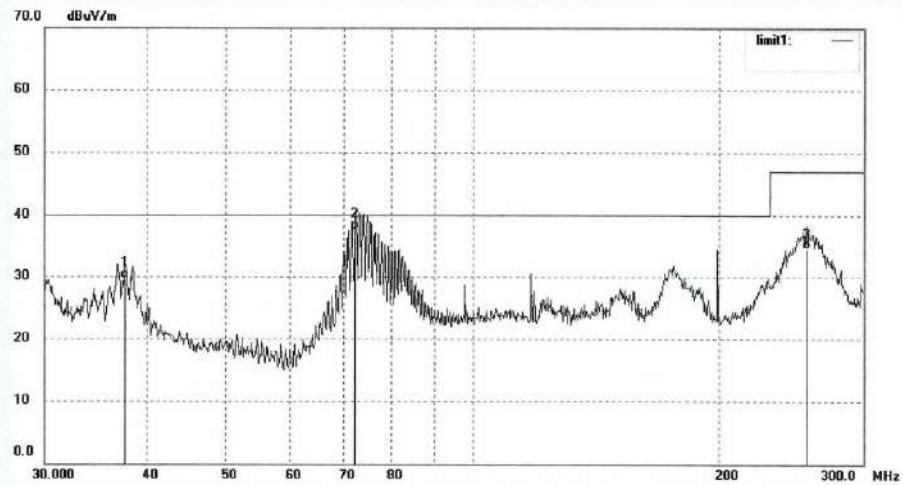
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A.Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #1156	Polarization: Vertical
Standard: EN 55015	Power Source: AC 230V/50Hz
Test item: Radiation Test	Date: 2015/08/19
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: LED safety cap lamp	Engineer Signature: PEI
Mode: Charging and on	Distance: 3m
Model: KL4MS	
Manufacturer: New Wisdom Investment Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	37.5942	34.89	-5.30	29.59	40.00	-10.41	QP			
2	72.2181	45.25	-7.45	37.80	40.00	-2.20	QP			
3	255.3413	35.00	-0.40	34.60	47.00	-12.40	QP			



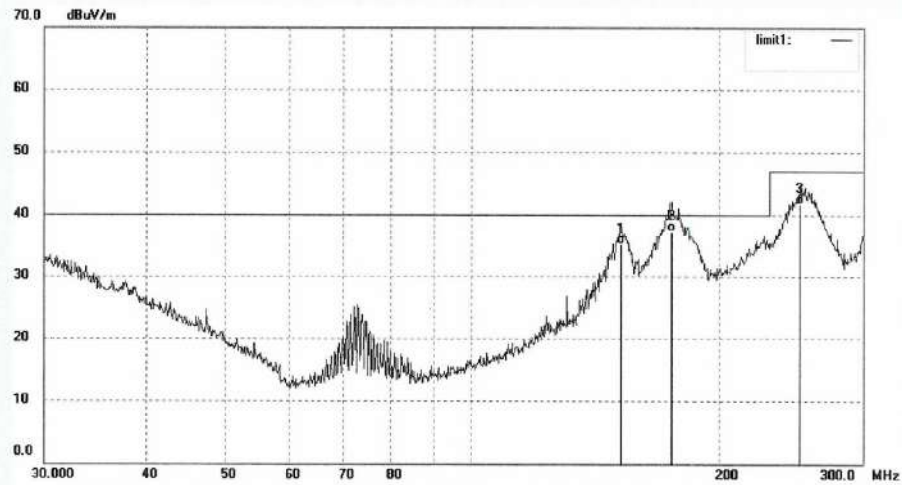
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #1157	Polarization: Horizontal
Standard: EN 55015	Power Source: AC 230V/50Hz
Test item: Radiation Test	Date: 2015/08/19
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: LED safety cap lamp	Engineer Signature: PEI
Mode: Charging and on	Distance: 3m
Model: KL4MS	
Manufacturer: New Wisdom Investment Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	152.7991	39.03	-3.80	35.23	40.00	-4.77	QP			
2	175.5223	41.87	-4.57	37.30	40.00	-2.70	QP			
3	250.6809	43.14	-1.46	41.68	47.00	-5.32	QP			



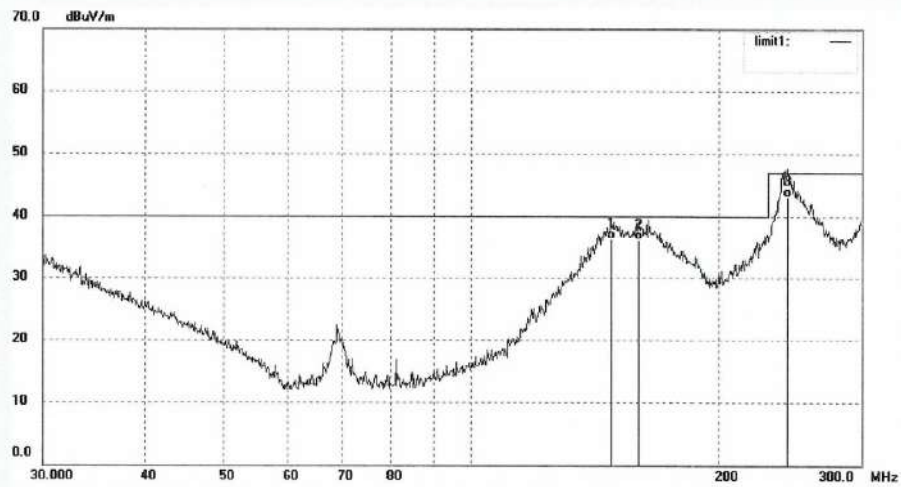
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #1158	Polarization: Horizontal
Standard: EN 55015	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/08/19
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: LED safety cap lamp	Engineer Signature: PEI
Mode: On	Distance: 3m
Model: KL4MS	
Manufacturer: New Wisdom Investment Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	149.6653	40.17	-3.91	36.26	40.00	-3.74	QP			
2	161.4807	39.83	-3.64	36.19	40.00	-3.81	QP			
3	242.5147	45.56	-2.36	43.20	47.00	-3.80	QP			



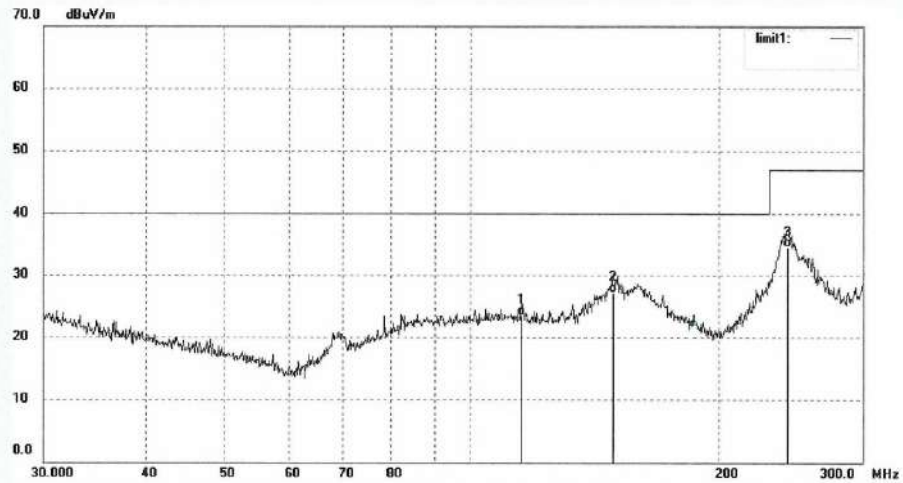
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: LGW2015 #1159	Polarization: Vertical
Standard: EN 55015	Power Source: DC 3.7V
Test item: Radiation Test	Date: 2015/08/19
Temp.(C)/Hum.(%) 23 C / 48 %	Time:
EUT: LED safety cap lamp	Engineer Signature: PEI
Mode: On	Distance: 3m
Model: KL4MS	
Manufacturer: New Wisdom Investment Limited	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	115.6435	26.50	-2.98	23.52	40.00	-16.48	QP			
2	150.0104	32.12	-4.94	27.18	40.00	-12.82	QP			
3	242.1705	37.19	-2.60	34.59	47.00	-12.41	QP			

EMC Test Protocol



Reference: LED safety cap lamp KL4MS	
Report:	

Immunity Enclosure	RS Radiated Susceptibility		<input checked="" type="checkbox"/> EN 61000-4-3			
Field Strength: 3 V/m	Criterion: A	Total: PASS / FAIL				
Frequency Range: 80 MHz to 1000 MHz						
Modulation: <input type="checkbox"/> none <input checked="" type="checkbox"/> AM <input type="checkbox"/> Pulse	1 kHz	80 %				
Ambient: 25 °C, 50 % RH,	101 kPa					
Test Site: Anechoic Chamber						
Operation Mode: On , Charging and on						
Model: KL4MS						
	Frequency Range 1: 80 – 1000 MHz		Frequency Range 2: MHz		Frequency Range 3: MHz	
Steps	#	/	%	#	/	%
	Horizontal	Vertical		Horizontal	Vertical	
Front	Pass	Pass				
Right	Pass	Pass				
Rear	Pass	Pass				
Left	Pass	Pass				
	Frequency Range 1: MHz		Frequency Range 2: MHz		Frequency Range 3: MHz	
Steps	#	/	%	#	/	%
	Horizontal	Vertical		Horizontal	Vertical	
Front						
Right						
Rear						
Left						

Date: 2015-9-2
Inspector: _____

Signature: 

EMC Test Protocol



Reference: LED safety cap lamp KL4MS	
Report:	

Immunity	ESD Electrostatic Discharge		<input checked="" type="checkbox"/> EN 61000-4-2
Air Discharge: ±8 kV	Criterion: B	Total: PASS / FAIL	
Contact: ±4 kV	# of discharges: 10	per test	
Ambient: 25 °C,	50 % RH,	101 kPa	
Test Site:			
Operation Mode: On , Charging and on			
Model: KL4MS			
Location	Kind A=Air C=Cont	Result	
All non-conducted enclosure & Seams	A	Pass	
All conducted enclosure	C	Pass	
HCP & VCP	C	Pass	

For indirect discharge: HCP = Horizontal Coupling Plane, VCP = Vertical Coupling Plane

Date: 2015-9-2
Inspector: _____

Signature: 

Measurement Uncertainties

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Table 1: Measurement Uncertainty levels

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.23 dB ± 2.23 dB	± 4.0 dB ± 3.6 dB
Power disturbance	Level accuracy (30MHz to 300MHz)	± 2.92 dB	± 4.5 dB
Electromagnetic Radiated Emission (3-loop)	Level accuracy (9kHz to 30MHz)	± 3.50 dB	N/A
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.08 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 4.42 dB	± 5.2 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 4.06 dB	N/A
Mains Harmonic	Voltage	$\pm 0.512\%$	N/A
Voltage Fluctuations & Flicker	Voltage	$\pm 0.512\%$	N/A

As U_{lab} in all applicable tests listed above are less than U_{cispr} according to CISPR 16-4-2:2003,

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.