

# ErP TEST REPORT

For

**LED FLOOD LIGHT WITH STAND** 

U.G7001001, U.G7002002, U.G7003003, U.G7005004,

Model No.: S.G7001001, S.G7002002, S.G7003003, S.G7005004,

H.G7001001, H.G7002002, H.G7003003, H.G7005004

Applicant: Haomai Electrical International Co., Ltd.

Guanlan High-tech Industrial Park, Longhua New District,

Shenzhen, China.

Manufacturer: Haomai Electrical International Co., Ltd.

Guanlan High-tech Industrial Park, Longhua New District,

Shenzhen, China.

Issued By: Global-Standard resting Service Co., Ltd.

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Report Number: GST1512021226P

Issued Date: December 07, 2015

Date of Report: December 07, 2015

#### Note:

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Report Reference No.: GST1512021226P

### **Test Report**

## REQUIREMENTS FOR LIGHT EMITTING DIODE LAMPS AND RELATED EQUIPMENT ACCORDING TO THE EC REGULATION 1194/2012

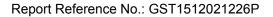
Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for directional lamps, light emitting diode lamps and related equipment.

Report reference No:	GST1512021226P
Testing laboratory:	Global-Standard Testing Service Co., Ltd.
Location:	Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An district, Shenzhen, Guangdong, China.
Applicant:	Haomai Electrical International Co., Ltd.
Address::	Guanlan High-tech Industrial Park, Longhua New District, Shenzhen, China.
Manufacturer:	Haomai Electrical International Co., Ltd.
Address::	Guanlan High-tech Industrial Park, Longhua New District, Shenzhen, China.
Standards:	CIE 84: 1989 CIE 127: 2007 Annex III of EC 1194/2012
Procedure deviation:	N/A
Non-standard test method:	N/A
Type of test equipment:	LED FLOOD LIGHT WITH STAND
Trade mark:	N/A
Model/Type designation:	U.G7001001, U.G7002002, U.G7003003, U.G7005004, S.G7001001, S.G7002002, S.G7003003, S.G7005004, H.G7001001, H.G7002002, H.G7003003, H.G7005004
Summary of test results	These results are in compliance with the stage 1 in Annex III ecodesign requiments of the EC regulation 1194/2012.



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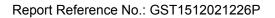
	1	
Possible test case verdicts :		
test case does not apply to the test object	N(/A.)	
test object does meet the requirement	P(ass)	
test object does not meet the requirement	F(ail)	
Name and address of the testing laborat	Global-Standard Testing Ser	za, Qian Jin 1st Road, Bao An District,
Sean Xiao	nature	December 04, 2015 Date
Jerry Hu / S	grature Supervisor ne/title	December 07, 2015 Date
Tim Sun / I	Testing Setting Settin	December 07, 2015 Date





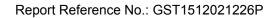
### Test and cerification results

Annex III (Clause)	Lamp Efficac of Ecodesign Requirements in EC Regulation 1194/2012, Stage 1 to 3	Result- Remark	Verdict
1.1)	Corrected Power (Pcor)		N/A
	Rated Luminous flux (Φ)		N/A
	Reference Power (Pref)		
	$\Phi <$ 1300 lm (Pref=0.88 $\Phi$ +0,049 $\Phi$ )		Р
	$\Phi <$ 1300 lm (Pref=0.07341 $\Phi$ )		
	Maximum Energy Efficiency Index (EEI; Limit≤0,5)		Р
Annex III (Clause)	Lamp Efficacy of Ecodedign Requirements in EC Regulation 1194/2012, stage2		
1.2a)	No-Load Power: Limit≤1.0W		Р
	Efficiency of halogen Lamp Control Gear: Limit 0,91 at 100% Load		Р
AnnexIII (Clause)	Lamp Efficacy of Ecodedign Requirements in EC Regulation 1194/2012, stage 3		
1.2b)	No-Load Power: Limit≤0,5W (Stage 3)		Р
	Standby Power; Limit≤0,5W (Stage 3)		N/A
Annex III (Clause)	Functionality of Ecodesign Requuirements in EC Regulation 1194/2012 for Directional Compact Fluoredcent Lamps, Stage 1		
2.1a)	Rated Lamp Lifetime (h)		N/A
	Measured lamp survival factor: Limit: ≥0,50 (at 6000h)-From 1 March 2014		N/A
2.1b)	Measured lumen maintenance at 2000h: Limint: ≥ 80%		N/A
2.1c)	Number of switching cycles before failure: ≥ half the lamp lifetime expressed in hours		N/A
	Limit: 50% of the sample should be survived  Number of switching cycles before failure: ≥ 10000		N/A
	if lamp starting time > 0,3s		N/A
	Limit: 50% of the sample should be survived		N/A
2.1d)	Measured starting time: Limit: < 2,0s		N/A
2.1e)	Measured lamp warm-up time to 60% Φ: Limit: < 40s , or		N/A
	Measured lamp warm-up time to 60% Φ: Limit: < 100s (for lamps containing mercury in amalgam form)		N/A
Annex III (Clause)	Functionality of Ecodesign Requirements in EC Regulation 1194/2012 for Directional Compact Fluorescent Lamps, Stage 1		
2.1f)	Measured premature failure rate: Limit: ≤ 5,0% ( at 500h)		N/A
2.1g)	Measured lamp power factor: Limit: ≥ 0,50 (if P < 25W), or		N/A



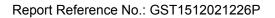


	Measured lamp power factor: Limit: ≥ 0,90 (if P ≥ 25W)	Р
2.1h)	Measured color rendering (Ra): Limit: ≥ 80 or	Р
,	Limit: ≥ 65 for outdoor or industrial applications	N/A
Annex III (Clause)	Functionality of Ecodesign Requirements in EC Regulation 1194/2012 for Directional Compact Fluorescent Lamps, Stage 3	
2.1a)	Rated Lamp Lifetime (h)	N/A
	Measured lamp survival factor: Limit: ≥ 0,70 (at 6000h)	N/A
2.1b)	Measured lumen maintenance at 2000h: Limit: ≥ 83%	N/A
	Measured lumen maintenance at 6000h: Limit: ≥ 70%	N/A
2.1c)	Number of switching cycles before failure: ≥ lamp lifetime expressed in hours	N/A
	Limit: 50% of the sample should be survived	N/A
	Number of switching cycles before failure: ≥ 30000 if lamp starting time > 0,3s	N/A
	Limit: 50% of the sample should be survived	N/A
2.1d)	Measured starting time: Limit: < 1,5s (If P <10W)	N/A
	Measured starting time: Limit: < 1,0s (If P≥ 10W)	Р
2.1e)	Measured lamp warm-up time to 60% Φ: Limit: <40s , or	N/A
	Measured lamp warm-up time to 60% Φ: Limit: < 100s (for lamps containing mercury in amalgam form)	N/A
2.1f)	Measured premature failure rate: Limit: ≤ 5,0% ( at 1000h)	N/A
2.1g)	Measured lamp power factor: Limit: ≥ 0,55 (if P < 25W), or	N/A
	Measured lamp power factor: Limit: ≥ 0,90 (if P ≥ 25W)	Р
Annex III (Clause)	Functionality of Ecodesign Requirements in EC Regulation 1194/2012 for Directional Compact Fluorescent Lamps, Stage 3	
2.1h)	Measured color rendering (Ra): Limit: ≥ 80	N/A
	Limit: ≥ 65 for outdoor or industrial applications	N/A
Annex III (Clause)	Functionality of Ecodesign Requirements in EC Regulation 1194/2012 for other directional lamp excluding compact fluorescent lamps and LED lamps and high-intensity discharge lamps, Stage 1 and 2	
2.1a)	Rated lamp lifetime: Limit ≥ 1000h	N/A
	Rated Lamp Lifetime: Limit≥ 2000h in stage 2	N/A
2.1b)	Measured lumen maintenance: Limit: ≥ 80% (at 75% of rated average lifetime)	N/A
2.1c)	Number of switching cycles before failure: ≥ four times the rated lamp life expressed in hours	N/A
	Limit: 50% of the sample should be survived	N/A
2.1d)	Measured starting time: Limit: < 0,2s	N/A
2.1e)	Measured lamp warm-up time to 60% Φ: Limit: ≤	N/A





	1,0s	
2.1f)	Measured premature failure rate: Limit: ≤ 5,0% (at 100h)	N/A
2.1g)	Measured lamp power factor: Limit: ≥ 0,9 for Power >25W	Р
	Measured lamp power factor: Limit: ≥ 0,5 for Power ≤25W	N/A
Annex III	Functionality of Ecodesign Requirements in EC	
(Clause)	Regulation 1194/2012 for other directional lamp excluding compact fluorescent lamps and LED lamps and high-intensity discharge lamps, Stage 3	
2.1a)	Rated lamp lifetime: Limit ≥ 2000h	N/A
2.1a)	·	
	Rated Lamp Lifetime: Limit≥ 4000h for SELV	N/A
2.1b)	Measured lumen maintenance: Limit: ≥ 80% (at 75% of rated average lifetime)	Р
2.1c)	Number of switching cycles before failure: ≥ four	N/A
	times the rated lamp life expressed in hours Limit: 50% of the sample should be survived	NI/A
A	•	N/A
Annex III (Clause)	Functionality of Ecodesign Requirements in EC Regulation 1194/2012 for other directional lamp excluding compact fluorescent lamps and LED lamps and high-intensity discharge lamps, Stage 3	
2.1d)	Measured starting time: Limit: < 0,2s	N/A
2e)	Measured lamp warm-up time to 60% Φ: Limit: ≤ 1,0s	N/A
2f)	Measured premature failure rate: Limit: ≤ 5,0% (at 200h)	N/A
2.1g)	Measured lamp power factor: Limit: ≥ 0,9 for Power >25W	Р
	Measured lamp power factor: Limit: ≥ 0,5 for Power ≤25W	N/A
Annex III (Clause)	Functionality of Ecodesign Requirements in EC Regulation 1194/2012 for non-directional and directional LED lamps, as from Stage 1	
2.2a)	Rated lamp survival factor at 6000 hours: Limit ≥ 0,9 (From 1 March 2014)	N/A
2.2b)	Measured lumen maintenance at 6000 hours: Limit: ≥ 0,8 (From 1 March 2014)	N/A
2.2c)	Number of switching cycles before failure: ≥ half the lamp lifetime expressed in hours	N/A
	Limit: 50% of the sample should be survived	N/A
	Number of switching cycles before failure: ≥ 15000 if lamp rated life ≥ 30000h	N/A
	Limit: 50% of the sample should be survived	N/A
2.2d)	Measured starting time: Limit: < 0,5s	N/A
2.2e)	Measured lamp warm-up time to 95% Φ: Limit: ≤ 2,0s	N/A
2.2f)	Measured premature failure rate: Limit: ≤ 5,0% (at 1000h)	N/A
2.2g)	Measured color rendering (Ra): Limit: ≥ 80 or	N/A
5/	Limit: ≥ 65 for outdoor or industrial applications	N/A
2.2h)	Colour consistency -Six-step MacAdam ellipse or less.	P



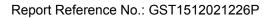


2.2i)	Measured lamp power factor: Limit: ≥ 0,4 for 2W< Power ≤5W	N/A
	Measured lamp power factor: Limit: ≥ 0,5 for 5W< Power ≤25W	N/A
	Measured lamp power factor: Limit: ≥ 0,9 for Power >25W	Р
Annex III (Clause)	Lamp Efficacy of Ecodesign Requirements in EC Regulation 1194/2012, stage 2	
2.3a)	EEI for equipment designed for installation between the mains and the lamps: Limits: ≤ 0.24 for non-directional lamps	N/A
	Limits: ≤ 0.40 for directional lamps  Dimming control device -at least 1% of their	N/A N/A
Annex III (Clause)	Product Information of Ecodesign Requirements in EC Regulation 1194/2012 for Lamp marking, Stage 1	
3.1.1a)	Nominal useful luminous flux (lm)	N/A
3.1.1b)	Colour temperature (K)	N/A
3.1.1c)	Nominal beam angle (°)	N/A
Annex III	Product Information of Ecodesign Requirements in	
(Clause) 3.1.2)	EC Regulation 1194/2012 for Packaging, Stage 1  The nominal luminous flux of the lamp shall be separately displayed in a font at least twice as large as the nominal lamp power	N/A
3.1.2b)	Nominal life time in hours	N/A
3.1.2c)	Color temperature in Kelvins	N/A
3.1.2d)	Number of switching cycles before premature lamp failure	
3.1.2e)	Warm-up time up to 60% of the full light output	N/A
•	Indicated as "instant full light" if less than 1 second	N/A
3.1.2f)	A warning if the lamp cannot be dimmed or can be dimmed only on specific dimmers	
3.1.2g)	Information for non-standard conditions	N/A
3.1.2h)	Lamp dimensions in millimeters	N/A
3.1.2i)	Nominal Beam angle in degrees	N/A
3.1.2j)	Warning statement if beam angle ≥ 90°	N/A
3.1.2k)	Drawing with Lamp's dimension for different than meant to replace	Р
3.1.2l)	The claimed equivalent incandescent lamp luminous flux shall corresponding in Table 6 to the luminous flux of the lamp	N/A
Annex III (Clause)	Product Information of Ecodesign Requirements in EC Regulation 1194/2012 for Packaging, Stage 1	
3.1.2m)	The claimed equivalent incandescent lamp power shall corresponding in Table 6 to the luminous flux of the lamp	
3.1.2n)	Lamp mercury content	N/A
3.1.20)	Indication which website to consult in case of accidental lamp breakage to find instructions on how to clean up the lamp debris	
Annex III	Product Information of Ecodesign Requirements in	



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(Clause)	EC Regulation 1194/2012 for Free-Access Websites, Stage 1	
3.1.3a)	The information specified on packaging	Р
3.1.3b)	Rated wattage (0,1W precision)	Р
3.1.3c)	Rated luminous flux	N/A
3.1.3d)	Rated lamp life time	N/A
3.1.3e)	Lamp power factor	N/A
3.1.3f)	Lumen maintenance factor at the end of the nominal life	N/A
3.1.3g)	Starting time	N/A
3.1.3h)	Colour rendering	N/A
3.1.3i)	Colour consistency (Only for LEDs)	Р
3.1.3j)	Rated peak intensity in candela (cd)	N/A
3.1.3k)	Rated beam angle	Р
3.1.31)	Intended for use in outdoor or industrial applications (If applicable)	Р
3.1.3m	Spectral power distribution in range 180-800nm	N/A
3.1.3n)	Instruction on how to clean up the lamp debris in case of accidental lamp breakage	Р
3.1.30)	Recommendations on how to dispose of the lamp at its end of life	N/A





### Annex 1: Photo Documents

Photo	1	
View:		
[√]	Front	
[]	Rear	
[]	Right side	
[]	Left side	
[]	Тор	
[]	Bottom	
[]	Internal	

END.