



# ErP TEST REPORT

For

LED FLOOD LIGHT WITH STAND

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

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Report Number : GST1512021226P

Issued Date : December 07, 2015

Date of Report : December 07, 2015

**Note:**

1. The test data and result is based on the tested sample only.
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<p align="center"><b>Test Report</b></p> <p align="center"><b>REQUIREMENTS FOR LIGHT EMITTING DIODE LAMPS AND RELATED EQUIPMENT ACCORDING TO THE EC REGULATION 1194/2012</b></p>	
<p><b>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.</b></p>	
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 requirements of the EC regulation 1194/2012.

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 laboratory :

Global-Standard Testing Service Co., Ltd.  
Room 1911-1914, Noble Plaza, Qian Jin 1st Road, Bao An District,  
Shenzhen, Guangdong, China.

**Tested by** : Sean Xiao December 04, 2015  
Signature Date

Sean Xiao / Engineer  
Name/title

**Reviewed by** : Jerry Hu December 07, 2015  
Signature Date

Jerry Hu / Supervisor  
Name/title

**Approved by** : Tim Sun December 07, 2015  
Signature Date

Tim Sun / Manager  
Name/title

### Test and certification 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 ( $\Phi$ )		N/A
	Reference Power (Pref) $\Phi < 1300 \text{ lm}$ (Pref=0.88 $\Phi$ +0,049 $\Phi$ ) $\Phi < 1300 \text{ lm}$ (Pref=0.07341 $\Phi$ )		P
	Maximum Energy Efficiency Index (EEI; Limit $\leq$ 0,5)		P
Annex III (Clause)	Lamp Efficacy of Ecodedign Requirements in EC Regulation 1194/2012, stage2		---
1.2a)	No-Load Power: Limit $\leq$ 1.0W		P
	Efficiency of halogen Lamp Control Gear: Limit 0,91 at 100% Load		P
AnnexIII (Clause)	Lamp Efficacy of Ecodedign Requirements in EC Regulation 1194/2012, stage 3		---
1.2b)	No-Load Power: Limit $\leq$ 0,5W (Stage 3)		P
	Standby Power; Limit $\leq$ 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: $\geq$ 0,50 (at 6000h)-From 1 March 2014		N/A
2.1b)	Measured lumen maintenance at 2000h: Limint: $\geq$ 80%		N/A
2.1c)	Number of switching cycles before failure: $\geq$ 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: $\geq$ 10000 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% $\Phi$ : Limit: $<$ 40s , or		N/A
	Measured lamp warm-up time to 60% $\Phi$ : 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: $\leq$ 5,0% ( at 500h)		N/A
2.1g)	Measured lamp power factor: Limit: $\geq$ 0,50 (if P $<$ 25W), or		N/A

	Measured lamp power factor: Limit: $\geq 0,90$ (if $P \geq 25W$ )		P
2.1h)	Measured color rendering (Ra): Limit: $\geq 80$ or		P
	Limit: $\geq 65$ 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: $\geq 0,70$ (at 6000h)		N/A
2.1b)	Measured lumen maintenance at 2000h: Limit: $\geq 83\%$		N/A
	Measured lumen maintenance at 6000h: Limit: $\geq 70\%$		N/A
2.1c)	Number of switching cycles before failure: $\geq$ lamp lifetime expressed in hours		N/A
	Limit: 50% of the sample should be survived		N/A
	Number of switching cycles before failure: $\geq 30000$ 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 $P \geq 10W$ )		P
2.1e)	Measured lamp warm-up time to 60% $\Phi$ : Limit: $< 40s$ , or		N/A
	Measured lamp warm-up time to 60% $\Phi$ : Limit: $< 100s$ (for lamps containing mercury in amalgam form)		N/A
2.1f)	Measured premature failure rate: Limit: $\leq 5,0\%$ (at 1000h)		N/A
2.1g)	Measured lamp power factor: Limit: $\geq 0,55$ (if $P < 25W$ ), or		N/A
	Measured lamp power factor: Limit: $\geq 0,90$ (if $P \geq 25W$ )		P
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: $\geq 80$		N/A
	Limit: $\geq 65$ 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 $\geq 1000h$		N/A
	Rated Lamp Lifetime: Limit $\geq 2000h$ in stage 2		N/A
2.1b)	Measured lumen maintenance: Limit: $\geq 80\%$ (at 75% of rated average lifetime)		N/A
2.1c)	Number of switching cycles before failure: $\geq$ 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% $\Phi$ : Limit: $\leq$		N/A


	1,0s		
2.1f)	Measured premature failure rate: Limit: $\leq 5,0\%$ (at 100h)		N/A
2.1g)	Measured lamp power factor: Limit: $\geq 0,9$ for Power $>25W$		P
	Measured lamp power factor: Limit: $\geq 0,5$ for Power $\leq 25W$		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		---
2.1a)	Rated lamp lifetime: Limit $\geq 2000h$		N/A
	Rated Lamp Lifetime: Limit $\geq 4000h$ for SELV		N/A
2.1b)	Measured lumen maintenance: Limit: $\geq 80\%$ (at 75% of rated average lifetime)		P
2.1c)	Number of switching cycles before failure: $\geq$ four times the rated lamp life expressed in hours		N/A
	Limit: 50% of the sample should be survived		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% $\Phi$ : Limit: $\leq 1,0s$		N/A
2f)	Measured premature failure rate: Limit: $\leq 5,0\%$ (at 200h)		N/A
2.1g)	Measured lamp power factor: Limit: $\geq 0,9$ for Power $>25W$		P
	Measured lamp power factor: Limit: $\geq 0,5$ for Power $\leq 25W$		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 $\geq 0,9$ (From 1 March 2014)		N/A
2.2b)	Measured lumen maintenance at 6000 hours: Limit: $\geq 0,8$ (From 1 March 2014)		N/A
2.2c)	Number of switching cycles before failure: $\geq$ 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: $\geq 15000$ if lamp rated life $\geq 30000h$		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% $\Phi$ : Limit: $\leq 2,0s$		N/A
2.2f)	Measured premature failure rate: Limit: $\leq 5,0\%$ (at 1000h)		N/A
2.2g)	Measured color rendering (Ra): Limit: $\geq 80$ or		N/A
	Limit: $\geq 65$ 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: $\geq 0,4$ for $2W < \text{Power} \leq 5W$		N/A
	Measured lamp power factor: Limit: $\geq 0,5$ for $5W < \text{Power} \leq 25W$		N/A
	Measured lamp power factor: Limit: $\geq 0,9$ for $\text{Power} > 25W$		P
Annex III (Clause)	Lamp Efficacy of Ecodesign Requirements in EC Regulation 1194/2012, stage 2		---
2.3a)	EEL for equipment designed for installation between the mains and the lamps: Limits: $\leq 0.24$ for non-directional lamps		N/A
	Limits: $\leq 0.40$ for directional lamps		N/A
	Dimming control device -at least 1% of their luminous flux at full load		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 ( $^{\circ}$ )		N/A
Annex III (Clause)	Product Information of Ecodesign Requirements in EC Regulation 1194/2012 for Packaging, Stage 1		---
3.1.2)	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		N/A
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		N/A
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 $\geq 90^{\circ}$		N/A
3.1.2k)	Drawing with Lamp's dimension for different than meant to replace		P
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		N/A
3.1.2n)	Lamp mercury content		N/A
3.1.2o)	Indication which website to consult in case of accidental lamp breakage to find instructions on how to clean up the lamp debris		P
Annex III	Product Information of Ecodesign Requirements in		---

(Clause)	EC Regulation 1194/2012 for Free-Access Websites, Stage 1		
3.1.3a)	The information specified on packaging		P
3.1.3b)	Rated wattage (0,1W precision)		P
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)		P
3.1.3j)	Rated peak intensity in candela (cd)		N/A
3.1.3k)	Rated beam angle		P
3.1.3l)	Intended for use in outdoor or industrial applications (If applicable)		P
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		P
3.1.3o)	Recommendations on how to dispose of the lamp at its end of life		N/A



Annex 1: Photo Documents

<p>Photo 1</p> <p>View:</p> <p><input checked="" type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input type="checkbox"/> Internal</p>	
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END.