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APPLICATION REPORT

On Behalf of

Shenzhen HY Industry Co., Ltd

piano lamp

Model: HY-LM003

Prepared For : Shenzhen HY Industry Co., Ltd

4F, Nantong BLD, Ai'nan Road, Longgang Area, Shenzhen, China

Prepared By : Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

B Area, 1-2F, Building B, Zhongyu Green High-tech Industrial Park, Wenge Road, Heshuikou, Gongming Street, Guangming New District,

Shenzhen, China

Date of Test : July 02, 2018 - July 06, 2018

Date of Report : July 06, 2018

Report Number : LCS180702012BS

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TEST REPORT

COMMISSION DELEGATED REGULATION (EU) No 874/2012 of 12 July 2012 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of electrical lamps and luminaires

Report reference No:	LCS180702012BS			
Tested by (name, function,	James Zhang(Project Engineer)			
signature):				
Check by (name, function,	lan Luo(lan Luo)			
signature)				
Approved by (name,function	Jesse Liu(Manager)			
, signature)				
Date of issue:	July 06, 2018			
Contents	7 pages			
Testing laboratory				
Name:	Shenzhen Southern LCS Compliance Testing Laboratory Ltd.			
Address:	B Area, 1-2F, Building B. Zhongyu Green High-tech Industrial Park,			
	Wenge Road, Heshuikou, Gongming Street, Guangming New			
	District, Shenzhen, China			
Testing location:	As above			
Client				
Name:	Shenzhen HY Industry Co., Ltd			
Address:	4F, Nantong BLD, Ai'nan Road, Longgang Area, Shenzhen, China			
Manufacturer				
Name:	Shenzhen HY Industry Co., Ltd			
Address:	4F, Nantong BLD, Ai'nan Road, Longgang Area, Shenzhen, China			
Test specification				
Standard:	COMMISSION DELEGATED REGULATION (EU) No 874/2012 of			
	12 July 2012			
Test procedure:	COMMISSION DELEGATED REGULATION (EU) No 874/2012 of			
Non-standard test method:	12 July 2012			
INOH-Standard test method	IV/A			

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Test item Description piano lamp

Trademark N/A

Model and/or type reference...... HY-LM003

Rating(s)(V/Hz)..... AC100-240V, 50/60Hz, 6W

Test case verdicts

Test case does not apply to the test object .: N(N/A)

Test item does meet the requirement: P(Pass)

Test item does not meet the requirement ...: F(Fail)

Testing

Date of receipt of test item July 02, 2018

Date(s) of performance of test...... July 02, 2018 – July 06, 2018

General remarks

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

Remarks:

COMMISSION DELEGATED REGULATION (EU) No 874/2012 of 12 July 2012.

These tests full fill the requirements of standard ISO/IEC 17025.

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Measurements of power of 0.50 W or greater was made with an uncertainty of less than or equal to 2 % at the 95 % confidence level.

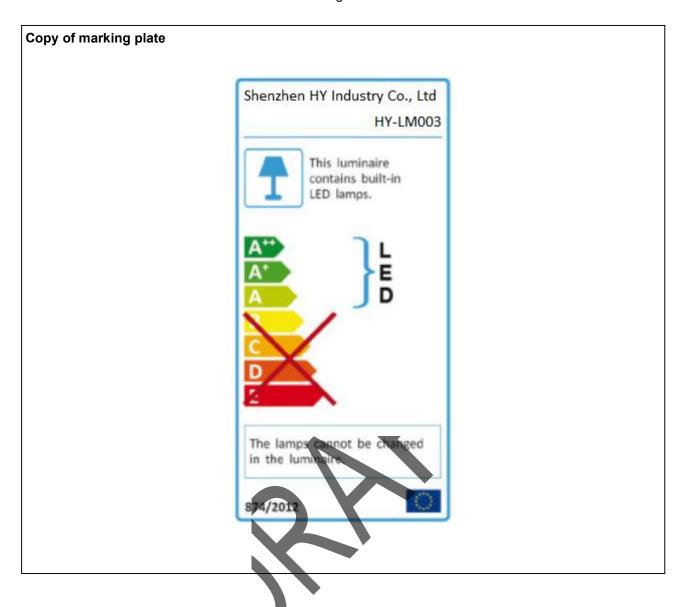
Measurements of power of less than 0.50 W was made with an uncertainty of less than or equal to 0.01 W at the 95 % confidence level.

The test report includes: ATTACHMENT 1(S) of product photos

Modified Information

Version	Report No.	Revision Data	Summary
V1.0	LCS180702012BS	1	Original Version

TRF No. (EU) No 874/2012



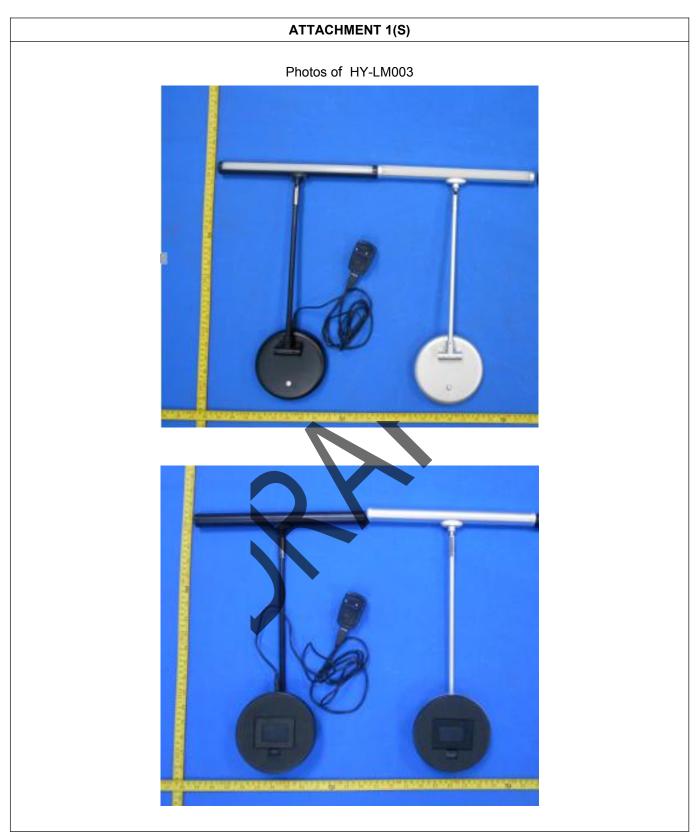
Tables

ANNEX III	ECODESIGN REQUIREMENTS				
1	ENERGY EFFICIENCY REQUIREMENTS				
1.1	Energy efficiency requirements for directional lamps				
	The energy efficiency index (EEI) of the lamp is calculated as follows and rounded to two decimal places: EEI = Pcor / Pref				
	Lamps operating on external halogen lamp control gear: Pcor=Prated × 1,06		N		
	Lamps operating on LED lamp control gear: Pcor=Prated		N		
	Lamps operating on external LED lamp control gear: Pcor=Prated × 1,10	Prated=5.5W Pcor=Prated×1.1=6.05W	Р		
	Fluorescent lamps of 16 mm diameter (T5 lamps) and 4- pin single capped fluorescent lamps operating on external fluorescent lamp control gear: Pcor=Prated × 1,10		N		
	Other lamps operating on external fluorescent lamp control gear: Pcor=Prated $\frac{0.24\sqrt{\varphi_{use}}+0.0103\varphi_{use}}{20.15\sqrt{\varphi_{use}}+0.0097\varphi_{use}}$		N		
	Lamps operating on external high-intensity discharge lamp control gear: Pcor=Prated × 1,10		N		
	Lamps operating on external low pressure sodium lamp control gear: Pcor=Prated × 1,15		N		
	Pref is the reference power obtained from the useful luminous flux of the lamp (Φ use) by the following formula:	• use= 243lm	Р		
	For models with $\Phi \text{use} <$ 1 300 lumen: $P_{ref} = 0.88 \sqrt{\Phi_{\text{use}}} + 0.049 \Phi_{\text{use}}$	Pref= 25.63W	Р		
	For models with Φuse ≥ 1 300 lumen: Pref=0,07341Φuse		N		
	The maximum EEI of directional lamps:	6.05W/25.63= 0.236	Р		

Tables

Table13A. Energy class								
Standard	Cla	Clause		Model No.		Verdict		
EU 874/2012	En	ergy class		HY-LM003		Р		
Conditions	CC -te -ar	-Test procedure: COMMISSION DELEGATED REGULATION (EU) No 874/2012 of 12 July 2012 -test conditions: -ambition: 25°C/65%R.HTest voltage:230V						
Luminous Flux lamp	of the 24	243lm						
Technical requi	rements	Test result						
EEI=Pcor/Pref		For non-dir	For non-direction lamp		For direction lamp			
Pcor which is Prated x Correction factors; Pref: for model withΦ _{use} <1300 lumen:0.88√Φuse+0.049Φuse, for model withΦ _{use} >1300 lumen: 0,07341Φuse		A++	EEI≤0.11	A-	++	EEI≤0.13		
		A+	0.11 <eei≤0< td=""><td>).17 A-</td><td>+</td><td>0.13<eei≤0.18< td=""></eei≤0.18<></td></eei≤0<>).17 A-	+	0.13 <eei≤0.18< td=""></eei≤0.18<>		
		Α	0.17 <eei≤0< td=""><td>).24 A</td><td></td><td>0.18<eei≤0.40< td=""></eei≤0.40<></td></eei≤0<>).24 A		0.18 <eei≤0.40< td=""></eei≤0.40<>		
		В	0.24 <eei≤0< td=""><td>).60 B</td><td></td><td>0.40<eei≤0.95< td=""></eei≤0.95<></td></eei≤0<>).60 B		0.40 <eei≤0.95< td=""></eei≤0.95<>		
		С	0.60 <eei≤0< td=""><td>0.80 C</td><td></td><td>0.95<eei≤1.20< td=""></eei≤1.20<></td></eei≤0<>	0.80 C		0.95 <eei≤1.20< td=""></eei≤1.20<>		
		D	0.80 <eei≤0< td=""><td>).95 D</td><td></td><td>1.20<eei≤1.75< td=""></eei≤1.75<></td></eei≤0<>).95 D		1.20 <eei≤1.75< td=""></eei≤1.75<>		
		E	0.95 <eei< td=""><td>E</td><td></td><td>1.75<eei< td=""></eei<></td></eei<>	E		1.75 <eei< td=""></eei<>		
Energy class	EEI=0.236	Α	•					





---- End of test report----