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Chinese market access for foreign lighting products

Xiaoxiao LI

Global Efficient Lighting Centre



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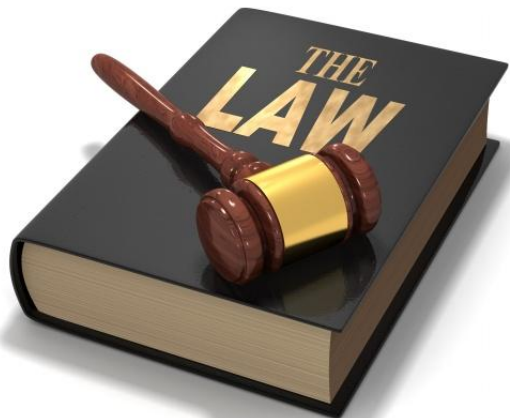
**Product Quality Law of the
People's Republic of China**
_ *Issued on February, 2, 1993*
_ *Revised on July 8, 2000*

2

**Law of the PRC on the
Protection of the Rights and
Interests of Consumers**
_ **Issued on Oct. 31, 1993**
_ **Revised on August 27, 2009**

3

**Standardization Law of The
People's Republic of China**
_ **Issued on Dec. 29, 1988**
_ **Revised on Nov. 21, 2001**



Chinese market access system

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Certification and accreditation

- Certification and accreditation are internationally adopted measures to regulate the market and to guarantee product quality and provide guidance to customers.

Chinese system

- There is a complete certification and accreditation system in China, including operational structure and working mechanism.

Chinese market access system

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Characteristic of Chinese Certification & Accreditation System

Establishment and implementation :

Unified management and joint implementation in accordance with relevant legislation.

(Certification bodies within the territory of P.R. China shall be approved by Certification and Accreditation Administration of the People's Republic of China CNCA)

Ensuring effectiveness of certification and accreditation:

A supervision network composed of legislative basis, administrative surveillance, accreditation, self-regulation of labs and oversight by the society.

Certification and Accreditation Law of the People's Republic of China_Issued on Nov.1, 2003

Organization

National Lighting Standardization Technical Committee

- Approved by the National Standardization Management Board
- No. SAC/TC224
- Beijing Lighting Research Institution

Standards

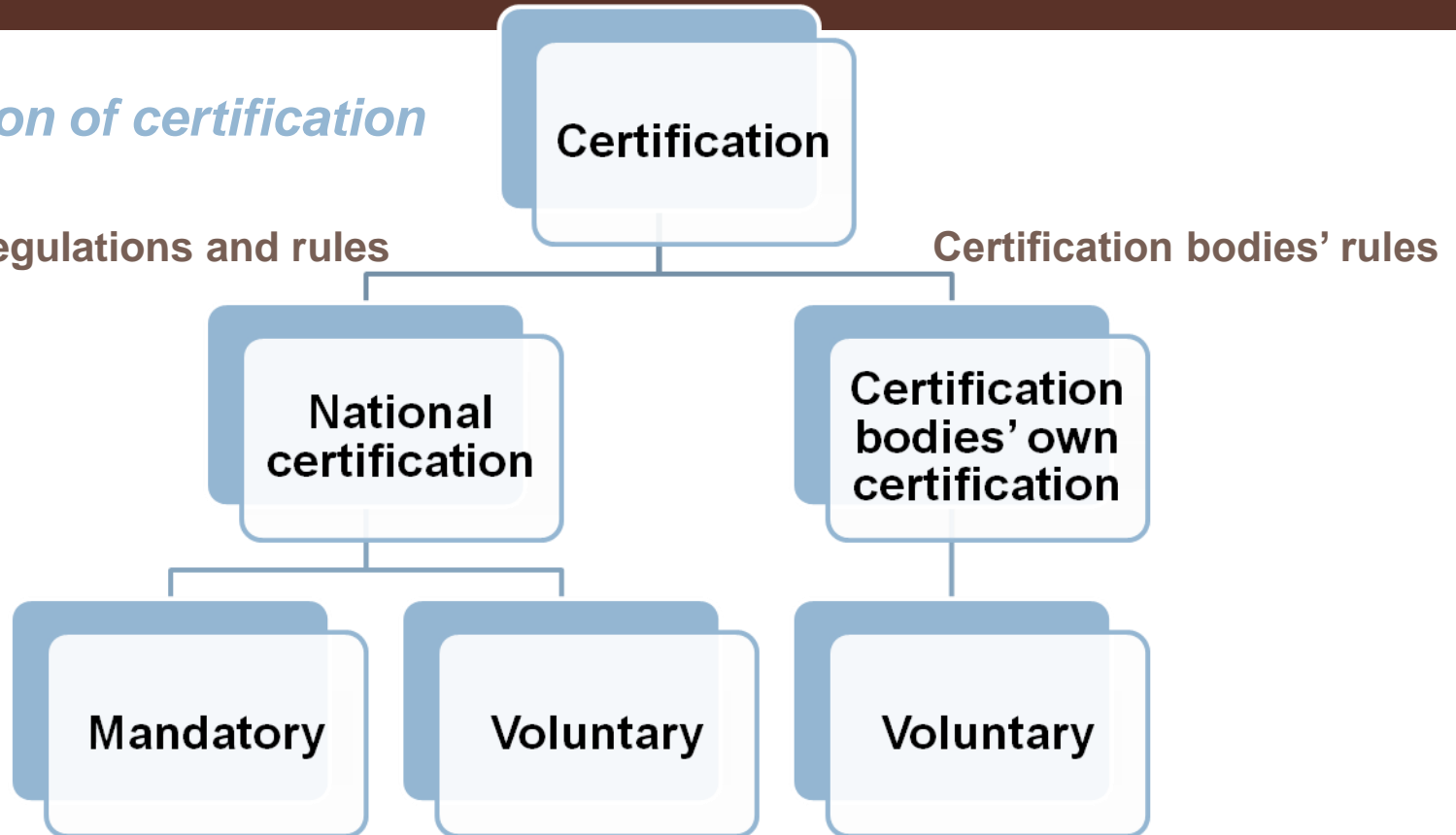
7

			GB Standard	IEC Standard
Safety standards	Luminaries		GB7000 Series	IEC60598 Series
	Light Source	CFL	GB16844	IEC60968
		LED light source	GB24906	IEC62560
		LED module	GB24819	IEC62031
	Ballast		GB19510	IEC61347
Performance standards	Luminaries		GB/T9468	/
			GB/T7002	/

Chinese certification system

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Classification of certification

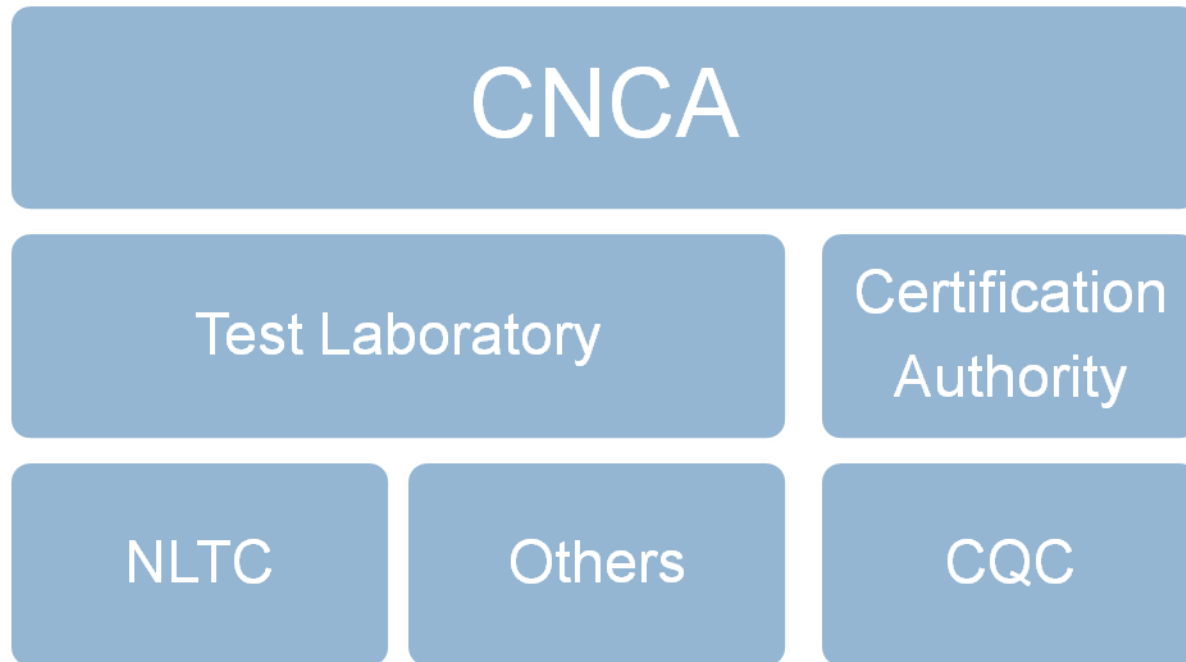


Standards used are national, sector standards or other approved standards

Chinese certification system

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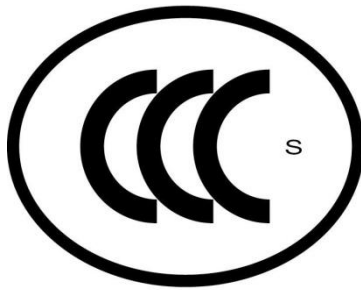
Organization



Chinese certification system

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China Compulsory Certification



Chinese certification system

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China implements Compulsory Product Certification in accordance with relevant laws and regulations

Ministerial normative documents

- Regulations on Compulsory Product Certification (Minister's Order No. 117 of AQSIQ)

Other normative documents

- Regulations on Compulsory Product Certification Mark
- Implementation Rules for CCC
- Regulations on Designation of Certification Bodies, Inspection Bodies and Testing Laboratories for CCC
- Specifications of Fees Charged for CCC

Chinese certification system

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Standards required for CCC

Luminaries	Fixed general purpose luminaries	GB7000.201-2008	IEC60598-2-1:1979+A1:1987	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires
	Recessed luminaries	GB7000.202-2008	IEC60598-2-2:2011	Luminaires - Part 2-2: Particular requirements - Recessed luminaires
	Portable general purpose luminaries	GB7000.204-2008	IEC60598-2-4:1997	Luminaires –Part 2Particular requirements –Section 4 Portable general purpose luminaires
	Aquarium luminaries	GB7000.211-2008	IEC60598-2-11:2005	Luminaires - Part 2-11: Particular requirements - Aquarium luminaires
	Mains socket-outlet mounted nightlights	GB7000.212-2008	IEC60598-2-12:2006	Luminaires. Part 2-12:Particular requirements. Mains socket-outlet mounted nightlights
	Ground recessed luminaries	GB7000.213-2008	IEC60598-2-13:2012	Luminaires - Part 2-13: Particular requirements - Ground recessed luminaires
Control gear	Fluorescent lamps	GB19510.4-2009	IEC61347-1: 2007	Lamp control gear—Part 4:Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps
	Fluorescent lamps	GB19510.9-2009	IEC61347-2-8:2007	Lamp control gear - Part 2-8: Particular requirements for ballasts for fluorescent lamps
	Discharge lamps	GB19510.10-2009	IEC61347-2-3:2007	Lamp control gear - Part 10: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps)

Chinese certification system

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National Standards for CCC certification

			GB Standard	IEC Standard
Safety standards	Luminaries		GB7000 Series	IEC60598 Series
	Light Source	CFL	GB16844	IEC60968
		LED light source	GB24906	IEC62560
		LED module	GB24819	IEC62031
	Ballast		GB19510	IEC61347
Performance standards	Luminaries		GB/T9468	/
			GB/T7002	/

Chinese certification system

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CQC Certification

Voluntary
certification

Safety
certification

Energy
conservation
certification



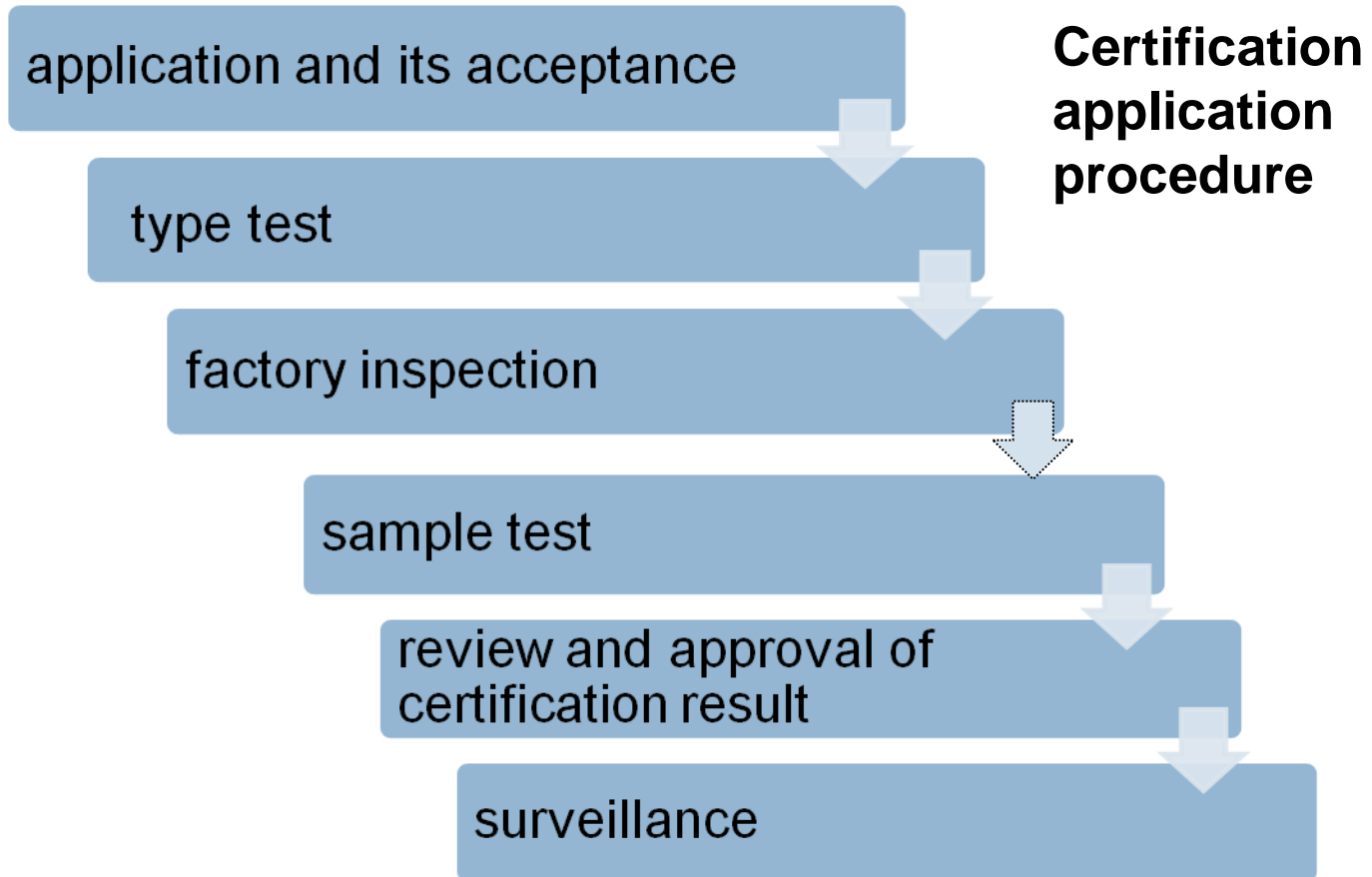
CQC certification specifications

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Item	Name of Products	Certification Type	Rule No.
Parts of lamp and lighting	lamp holders for tubular fluorescent lamps and starter holders	Safety Certification	CQC11-465423-2009
	D.C. or A.C. supplied electronic step-down convertors for filament lamps	Safety and Electromagnetic Compatibility Certification	CQC12-465421-2009
	electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps(neon tubes)	Safety and Electromagnetic Compatibility Certification	CQC12-465422-2009
	lamp holders for lighting accessories	Safety Certification	CQC11-465424-2009
	lamp holders for miscellaneous lamp holders	Safety Certification	CQC11-465425-2009
Lamp and lamp holder	lamp holders for lights with rated voltage less than or equal 36V	Safety Certification	CQC11-465314-2009
	semi-luminaires	Safety Certification	CQC11-465311-2009
	lamp holders for lights and electrical supply track systems for luminaires	Safety Certification	CQC11-465313-2009
	extra voltage lighting systems for filament lamps	Safety Certification	CQC11-465312-2009
Discharge lamps	self-ballasted lamps for general lighting services	Energy Conservation	CQC31-465131-2009
	double-capped fluorescent lamps for general lighting service	Energy Conservation	CQC31-465132-2009
	single-capped fluorescent lamps	Energy Conservation	CQC31-465133-2009
	high pressure sodium lamps	Energy Conservation	CQC31-465134-2009
	metal-halide lamps	Energy Conservation	CQC31-465135-2009
	electric light source	Safety Certification	CQC11-465101-2009

Chinese certification system

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Chinese lighting product energy label system

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Energy label

- Attached on the product or the package of products.
- Expressing level of energy efficiency of products, energy consumption

"China Energy Savings Programme" High Efficiency Motor Promotion Catalog (Third Batch) _2008_NDRC/AQSIQ/CNCA

Two lighting products are included

- Self-ballasted fluorescent energy efficiency labeling rules
- High pressure sodium lamp, energy efficiency labeling rule.

China National Institute of Standardization (CNIS)



Chinese lighting product energy label system

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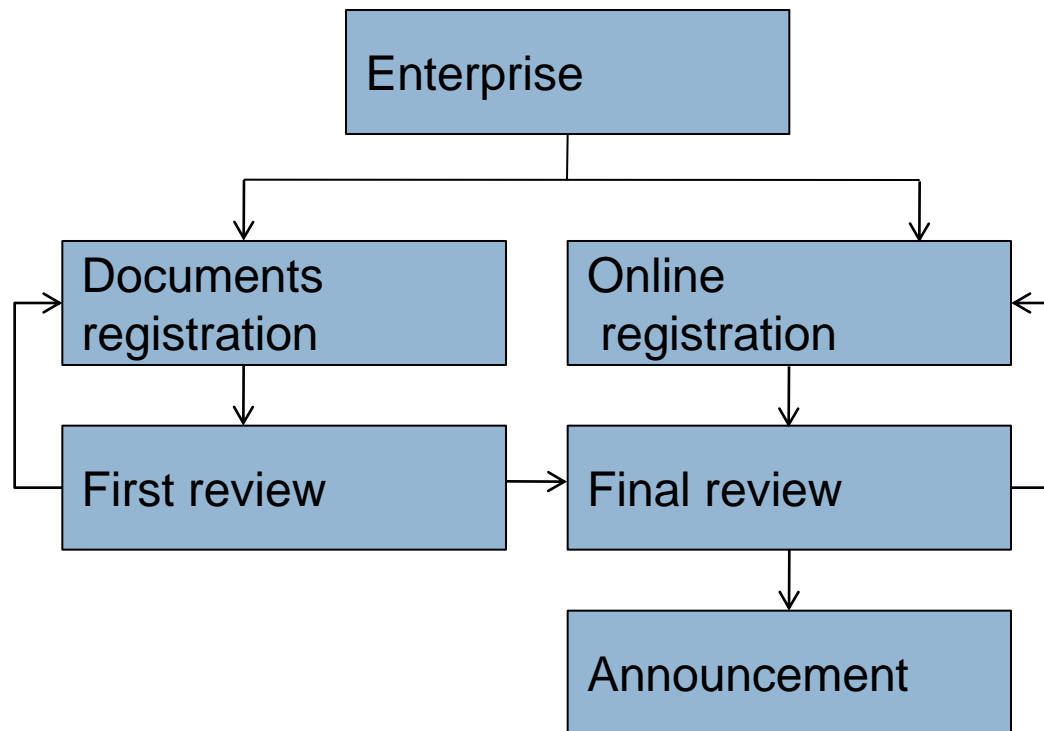
Energy label standards

National Standards	
GB 19415-2003	Limited values of energy efficiency and evaluating values of energy conservation for single-capped fluorescent lamps
GB 17896- 2012	Limited values of energy efficiency and evaluating values of energy conservation of ballasts for tubular fluorescent lamps
GB 19043-2003	Limited values of energy efficiency and rating criteria of double-capped fluorescent lamps for general lighting service
GB 19044-2003	Limited values of energy efficiency and rating criteria of self-ballasted fluorescent lamps for general lighting service
GB 19573-2004	Limited values of energy efficiency and rating criteria for high-pressure sodium lamps
GB 19574-2004	Limited values of energy efficiency and evaluating values of energy conservation of ballast for high-pressure sodium lamps

Chinese lighting product energy label system

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Energy label application procedure



Promoting Solid-state Lighting Pilot Projects

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In the August of 2010

Department of Resource Conservation
and Environmental Protection of NDRC

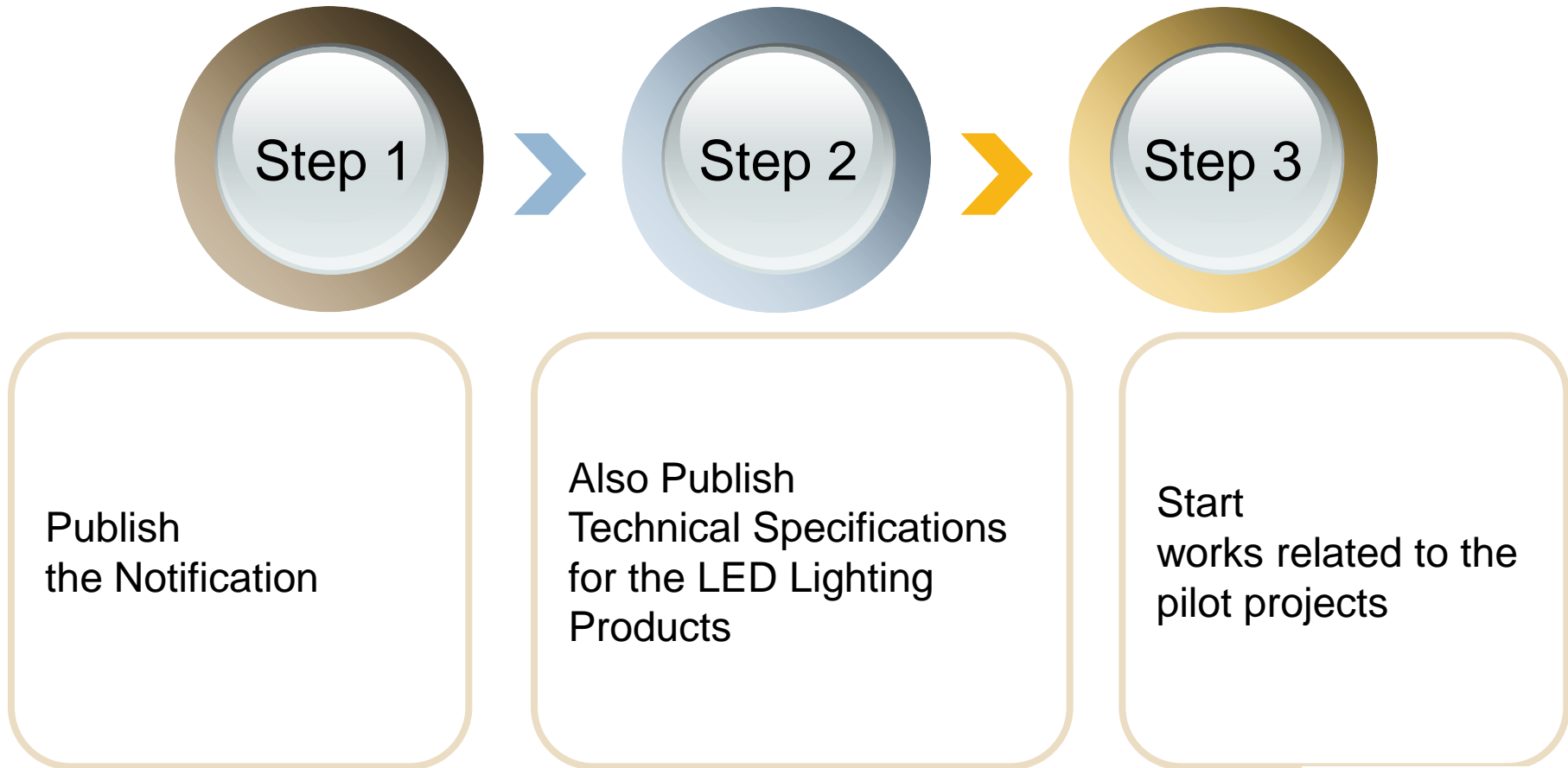
Ministry of Housing and Urban-Rural
Development of People's Republic of China

Policy and Regulation Department of Ministry
of Transport of People's Republic of China

The Notification of
Promoting
Solid-state Lighting Pilot
Projects

Promoting Solid-state Lighting Pilot Projects

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Promoting Solid-state Lighting Pilot Projects

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Technical Specifications

半导体照明产品推广应用技术指南	
第2篇 LED道路/隧道照明产品 2 nd PAPER LED street tunnel lighting products (Version 1.0)	
目次	11
1 范围	1
2 定义	1
3 规格	1
4 试验要求	1
4.1 光电性能测试	1
4.2 安全要求	2
4.3 电磁兼容性能测试	3
4.4 温升及功率因数测试	3
5 试验方法	3
5.1 试验一般要求	3
5.2 光源和寿命测试方法	3
5.3 能效及光衰测试	4
5.4 电磁兼容	4
5.5 能效测试方法	4
5.6 安全测试方法	4
5.7 电磁兼容测试	4
6 参考文献	4

半导体照明产品推广应用技术指南	
第1篇 反射型自镇流LED照明产品 1 st PAPER Self-ballasted LED reflectors (Version 1.0)	
目次	11
1 范围	1
2 定义	1
3 规格	2
4 试验要求	2
4.1 光电性能测试	2
4.2 安全要求	3
4.3 电磁兼容性能测试	3
4.4 温升及功率因数测试	3
5 试验方法	3
5.1 试验一般要求	3
5.2 光源和寿命测试方法	4
5.3 能效及光衰测试	4
5.4 电磁兼容	4
5.5 能效测试方法	4
5.6 安全测试方法	4
5.7 电磁兼容测试	4
6 参考文献	4
附录1 LED照明产品中心光强测试要求 (4.4)	5

半导体照明产品推广应用技术指南	
第3篇 自镇流LED筒灯 3 rd PAPER Self-ballasted LED downlight (Version 1.0)	
目次	11
1 范围	1
2 定义	1
3 规格	2
4 试验要求	2
4.1 光电性能测试	2
4.2 安全要求	3
4.3 电磁兼容性能测试	3
4.4 温升及功率因数测试	3
5 试验方法	3
5.1 试验一般要求	3
5.2 光源和寿命测试方法	4
5.3 能效及光衰测试	4
5.4 电磁兼容	4
5.5 能效测试方法	4
5.6 安全测试方法	4
5.7 电磁兼容测试	4
6 参考文献	4

Promoting Solid-s

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Procedures

1. Independent legal person
2. Registered capital: 50million
3. Good credit status and financial status
4. Research Ability
5. Provide a national
6. product testing report
7. Perfect after sale service system

1. Organize pilot projects
2. Organize bidding
3. pick up the candidates
4. Implement pilot projects
5. Supervise, guide and accept
6. Summary and spread

1. Bidding requirements
2. Supply and service requirements

1. Rewards
Offer certificates→
Recommend to China Habitat Environment Award
2. Punishment
Cancel the qualification,
and circulate a notice of criticism

Promoting Solid-state Lighting Pilot Projects

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Assessment

NLTC指标计算系统V1.0

导入文件 选中:

额定量	实测值	标准值	总分
额定功率 <input type="text"/>	功率 <input type="text"/>	<input type="text"/>	<input type="text"/>
额定光通量 <input type="text"/>	功率因数 <input type="text"/>	<input type="text"/>	<input type="text"/>
额定相关色温 <input type="text"/>	初始光通量 <input type="text"/>	<input type="text"/>	<input type="text"/>
	初始光效 <input type="text"/>	<input type="text"/>	<input type="text"/>
	区域光通分布 <input type="text"/>	<input type="text"/>	<input type="text"/>
描述	3khrs光通维持率 <input type="text"/>	<input type="text"/>	<input type="text"/>
报告序号 <input type="text"/>	6khrs光通维持率 <input type="text"/>	<input type="text"/>	<input type="text"/>
灯型 <input type="text"/>	10khrs光通维持率 <input type="text"/>	<input type="text"/>	<input type="text"/>
	初始显色指数 <input type="text"/>	<input type="text"/>	<input type="text"/>
	3khrs显色指数 <input type="text"/>	<input type="text"/>	<input type="text"/>
	初始相关色温 <input type="text"/>	<input type="text"/>	<input type="text"/>

单个计算

批量计算导出

Supervision and inspection of lighting product

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Government

Inspection and Quarantine of
the Peoples' Republic of
China (AQSIQ),

National Development and
Reform Commission
(NDRC), etc.

Manufacturer

Test
laboratory

End-User

Policies of China in phasing out of incandescent lamps

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Phase 1

- ▶ November 1, 2011 to September 30, 2012 is the transition period. Importers and sellers are supposed to make preparations for the phasing out of incandescent lamps.

Phase 2

- ▶ Incandescent lamps which are 100 or above 100 watt will be banned to import and sell since October 1, 2012.

Phase 3

- ▶ Incandescent lamps which are 60 or above 60 watt will be banned to import and sell since October 1, 2014.

Phase 4

- ▶ October 1, 2015 to September 30, 2016 is the mid-stage assessment period. Previous policy will be assessed and follow-up policy will be adjusted.

Phase 5

- ▶ Incandescent lamps which are 15 or above 15 watt will be banned to import and sell since October 1, 2016 and the policy will be adjusted according to the results of assessment.

Thank you!

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