

CERTIFICATION PROCEDURE & REQUIREMENTS FOR LIGHTING PRODUCTS ENTERING VIETNAM MARKET

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**ACCURACY
OBJECTIVENESS
RELIABILITY
IN-TIME SERVICE**



CONTENT

1. Introduction of QUATEST 3
2. Mandatory requirements for EE products (including lighting products) entering Vietnam market.
3. Q & A



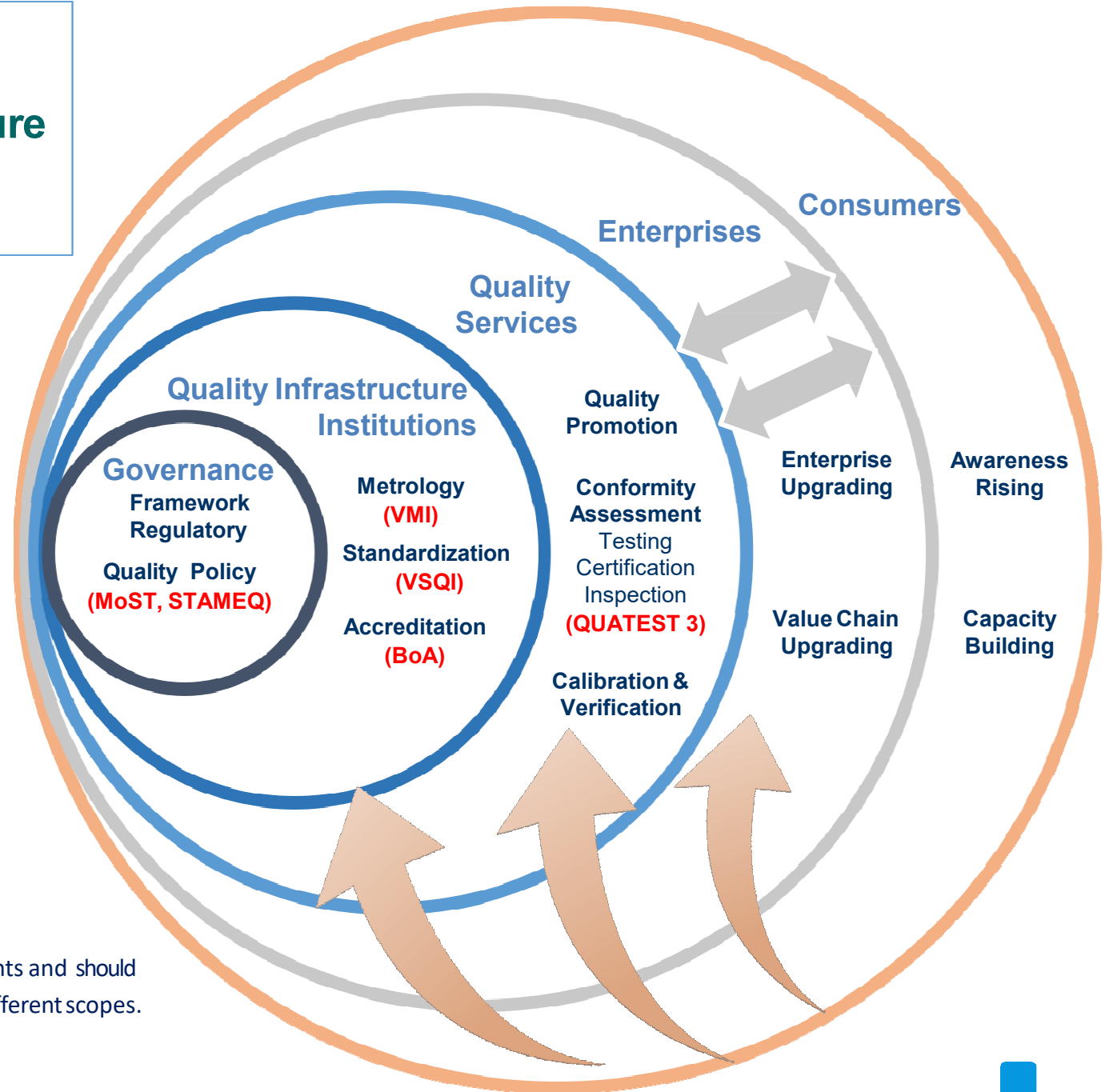
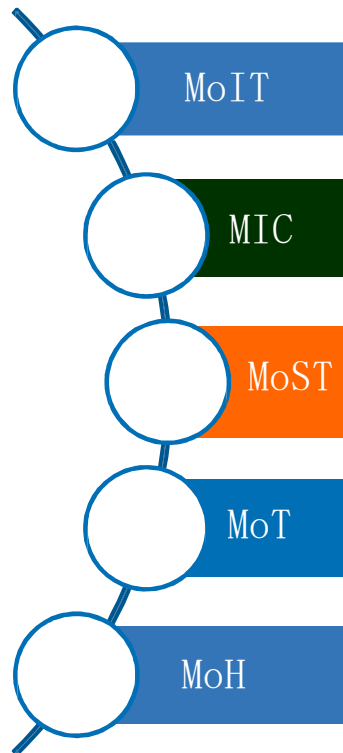


1. QUATEST 3 INTRODUCTION

Vietnam

Quality Infrastructure

System



Note: Products meet multi-requirements and should apply multi-certificate if they fall in different scopes.



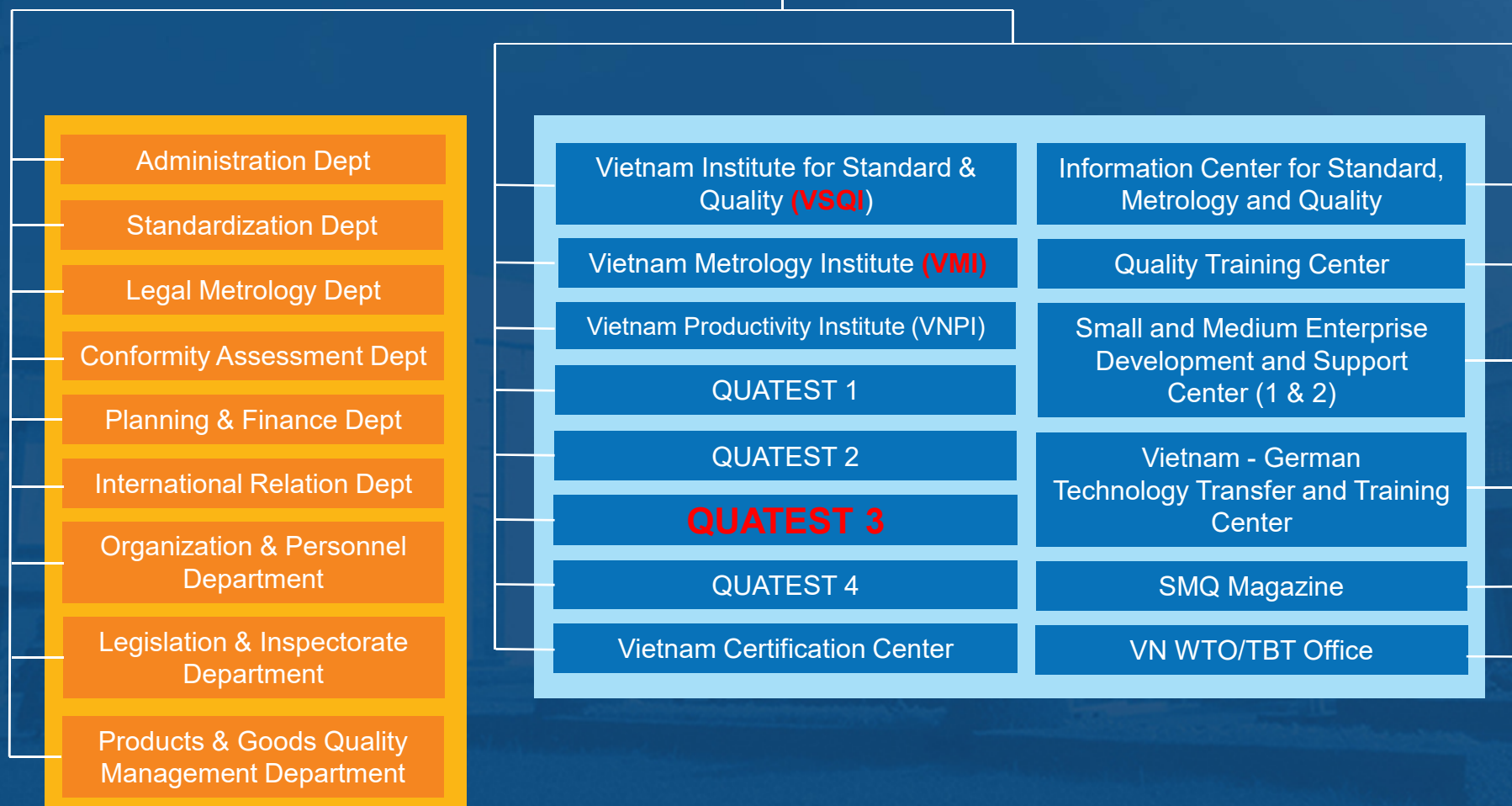


WHERE WE ARE



Ministry of Science & Technology (MoST)

Directorate for Standards – Metrology and Quality (STAMEQ)





QUATEST 3 SERVICES





SCOPES OF TECHNICAL SERVICES



Materials
(Metallic & non-metallic)



Machinery, equipment,
production line



Welds testing
& Non-destructive
testing (NDT)



Chemical
(chemical, fertiliser,
pesticides, herbicides, etc.)



Petrochemical products
(gasoline, DO, FO,
lubricants,
additives, and so on)



Food safety
(fresh & processed foods,
foods additives,
packing materials, etc.)



Aquatic & sea foods,
agricultural products,
animal feeds



Environmental
(testing, measuring,
monitoring)



Construction materials
& components



Electrical – electronic
and telecommunication
products



Consumers products
(textile, foot ware, toys,
plastic, furniture, etc.)



GS1 standards &
technology applications



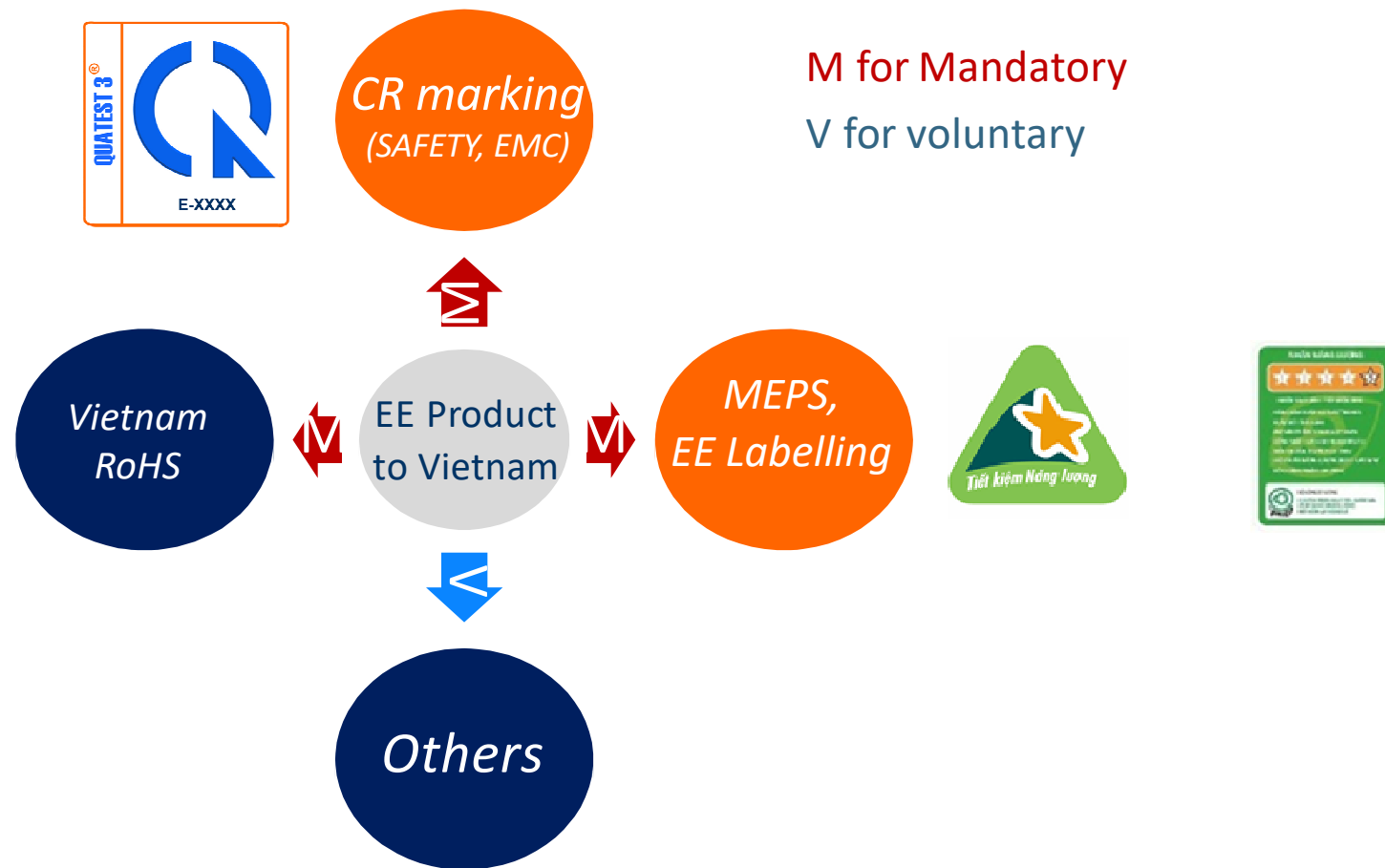
OUR VISION



QUATEST3®

**Within the leading group of conformity
assessment bodies in ASEAN**


2. Mandatory requirements for EE products entering Vietnam



SAFETY REQUIREMENT

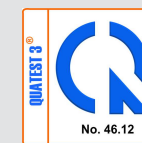
TECHNICAL REGULATION No. 4 (QCVN 4:2009/BKHCN)



CATEGORY	REGULATORY AGENCY	REGULATIONS
 Electrical Safety	Directorate for Standards, Metrology and Quality (STAMEQ).	<ul style="list-style-type: none"> Regulated products that are locally manufactured or imported require mandatory certification (scheme 1b, 5) by a third-party CB (registered with STAMEQ according to Decree 107/2017/NĐ-CP). Additionally, imported products are also regulated by Decision 3482/2017/QĐ-BKHCN (Import-Export Goods Control List) and Circular 27/2012/TT-BKHCN, 07/2017/TT-BKHCN (Quality control procedure for regulated imported products). Compliance with TCVN and/or IEC standards.

REFERENCE LEGAL DOCUMENTS

- QCVN 4:2009/BKHCN + [Amendment 1:2016](#)



Applicable product categories


Safety mark is required for below equipment categories:

1. Appliances for skin or hair care	4. Electric hand dryer	8. Instant water heater	11. Portable immersion heaters
2. Electric fan	5. Electric iron	9. Microwave oven	12. Rice Cooker
3. Electric grills, toasters and similar heater portable cooking appliances	6. Electric kettle	10. Wires and cables of rated voltage from 50 V to 1000 V	13. Storage water
	7. Electric tea and coffee makers		

EMC REQUIREMENT

TECHNICAL REGULATION No. 9 (QCVN 4:2009/BKHCN)



CATEGORY	REGULATORY AGENCY	REGULATIONS
 Electromagnetic Compatibility (Hous)	Directorate for Standards, Metrology and Quality (STAMEQ).	<ul style="list-style-type: none"> Regulated products that are locally manufactured or imported require mandatory certification (scheme 1a) by a third-party CB (registered with STAMEQ according to Decree 107/2017/ND-CP). Imported products are also regulated additionally by Decision 3482/2017/QĐ-BKHCN (Import-Export Goods Control List) and Circular 27/2012/TT-BKHCN, 07/2017/TT-BKHCN (Quality control procedure for regulated imported products). Compliance with TCVN and/or CISPR standards.

REFERENCE LEGAL DOCUMENTS

- QCVN 9: 2012/BKHCN + Amendment 1:2018



Applicable product categories:

EMC mark is required for below equipment categories:




1. Electric Air-conditioners	3. Electric Vacuum cleaners	5. Self-ballasted (compact) lamp	7. Motor operated portable electric drills
2. Electric refrigerators and freezers	4. Electric Washing machines	6. Instant water heaters	

Amendment 1:2018 (QCVN 9:2012/BKHCN) added 4 product categories to the list of EMC mandatory certification as following:

No.	Products	Applied standards	Mandatory certification from:	No.	Products	Applied standards	Mandatory certification from:
8.	Electric hair dryer	TCVN 7492-1:2010 (CISPR 14-1:2009)	Sep. 1st, 2019	10.	Microwave oven (including combined type)	TCVN 6988:2006 (CISPR 11:2004)	Jul. 1st, 2021
9.	Blender, juice maker, electric egg whisk	TCVN 7492-1:2010 (CISPR 14-1:2009)	Jul. 1st, 2020	11.	Electric cooker (including induction cooker)	CISPR 14-1:2016	Jul. 1st, 2021

MEPS/EE LABELLING PROGRAM



CATEGORY	REGULATORY AGENCY	REGULATIONS
 <u>Energy Efficiency</u>	Ministry of Industry and Trade (MoIT).	<ul style="list-style-type: none"> • Decision 24/2018/QĐ-TTg (MEPS Program). • Decision 04/2017/QĐ-TTg (EE Program). • Circular 36/2016/TT-BCT. <div>   </div>

Applicable product categories:

- Group 1 includes household equipment: **straight tube/compact fluorescent lamps, electromagnetic/electronic ballasts for fluorescent lamps**, air conditioners, refrigerators, household washing machines, electric cookers, electric fans, TVs, **LED lamps** and hot water heaters.
- Group 2 includes office equipment including: copy machines, computer monitors, printers, commercial refrigerated cabinets and laptops.
- Group 3 includes industrial equipment including: distribution transformers and electric motors.
- Group 4 includes transportation vehicles including: cars with 9 seats or less, motorcycles and mopeds.

APPLIED STANDARDS FOR LIGHTING PRODUCTS IN ENERGY EFFICIENCY LABELLING PROGRAM

Compulsory

Voluntary

2017

2019

2020

Lighting
Products
(GROUP 1)

Straight tube fluorescent lamps (TCVN 8249:2013), Compact fluorescent lamps (TCVN 7896:2015), Electromagnetic ballasts (TCVN 8248:2013) and Electronic ballasts (TCVN 7897:2013).

LED lamps
(TCVN 11844:2017)

LED lamps
(TCVN
11844:2017)

31/12/2019

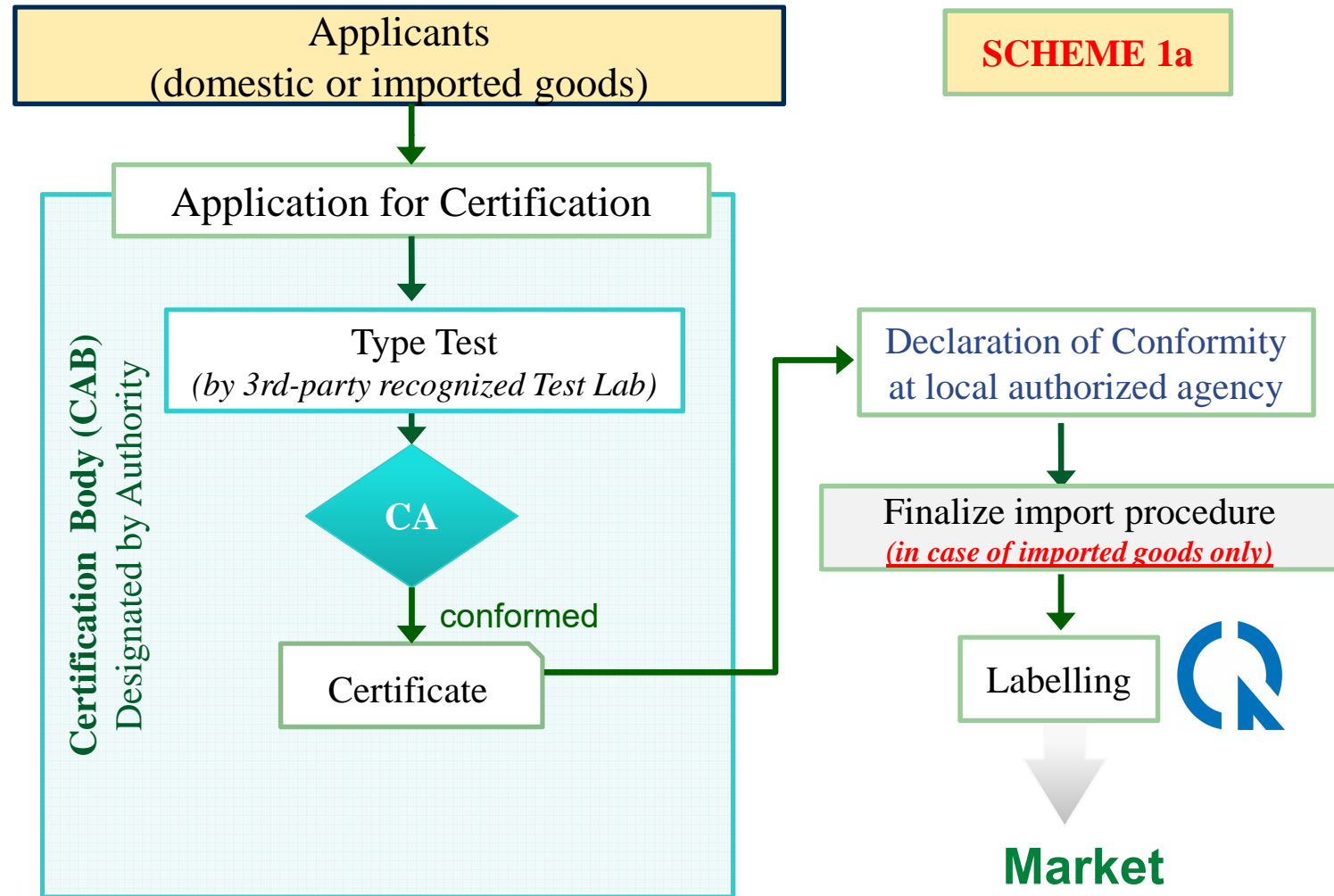
(01/01/2020)

Certification mode used by Authorities for electrical – electronic product (including lighting product) in the purpose of pre-market regulation:

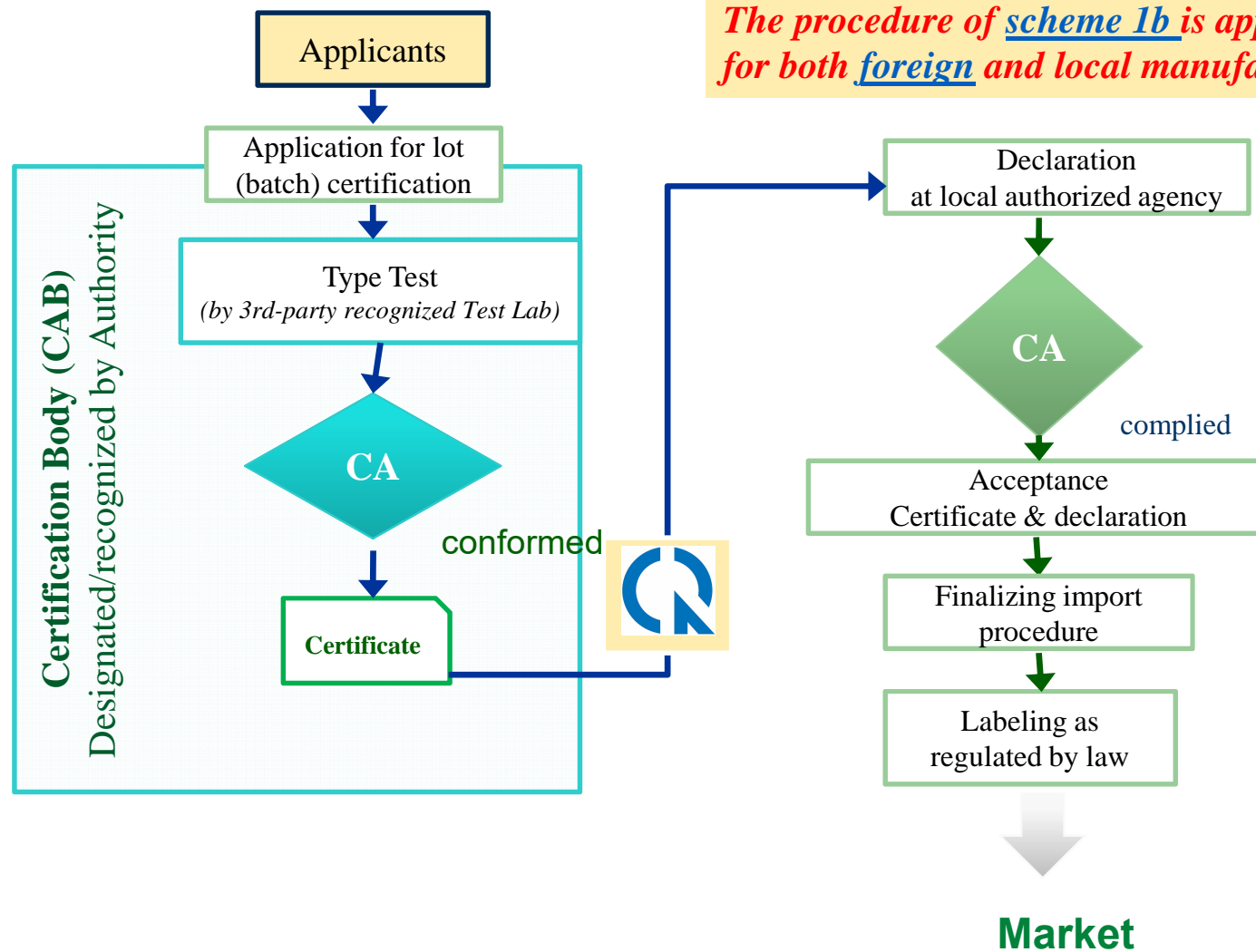
- Safety requirements (QCVN 4:2009/BKHCN): Scheme 1b, 5.
- EMC requirements (QCVN 9:2012/BKHCN): Scheme 1a.
- EE Labelling: SDoC.

Table 1 Type of product certification scheme		ISO/IEC 17067				
Conformity assessment functions and activities within product certification schemes	Type of product certification scheme *					
	1a	1b	2	3	4	5
Activities for issuing the certificate						
Product evaluation – type test acc.	X	X	X	X	X	X
Assessment of production- pre-license inspection in factory				X	X	X
Review	X	X	X	X	X	X
Decision on certification	X	X	X	X	X	X
Certification documents	X	X	X	X	X	X
Certificate of conformity	X	X	X	X	X	X
License – granting the right to use marks of conformity		X	X	X	X	X
Certification of a batch		X				
Surveillance after issuing a certificate						
Testing of samples from the open market			X		X	X
Testing of samples from the factory				X	X	X
Assessment of the production, the delivery of the service				X	X	X
Management system audits combined with random tests or inspections						X
* The program type 6 for processes has been omitted						

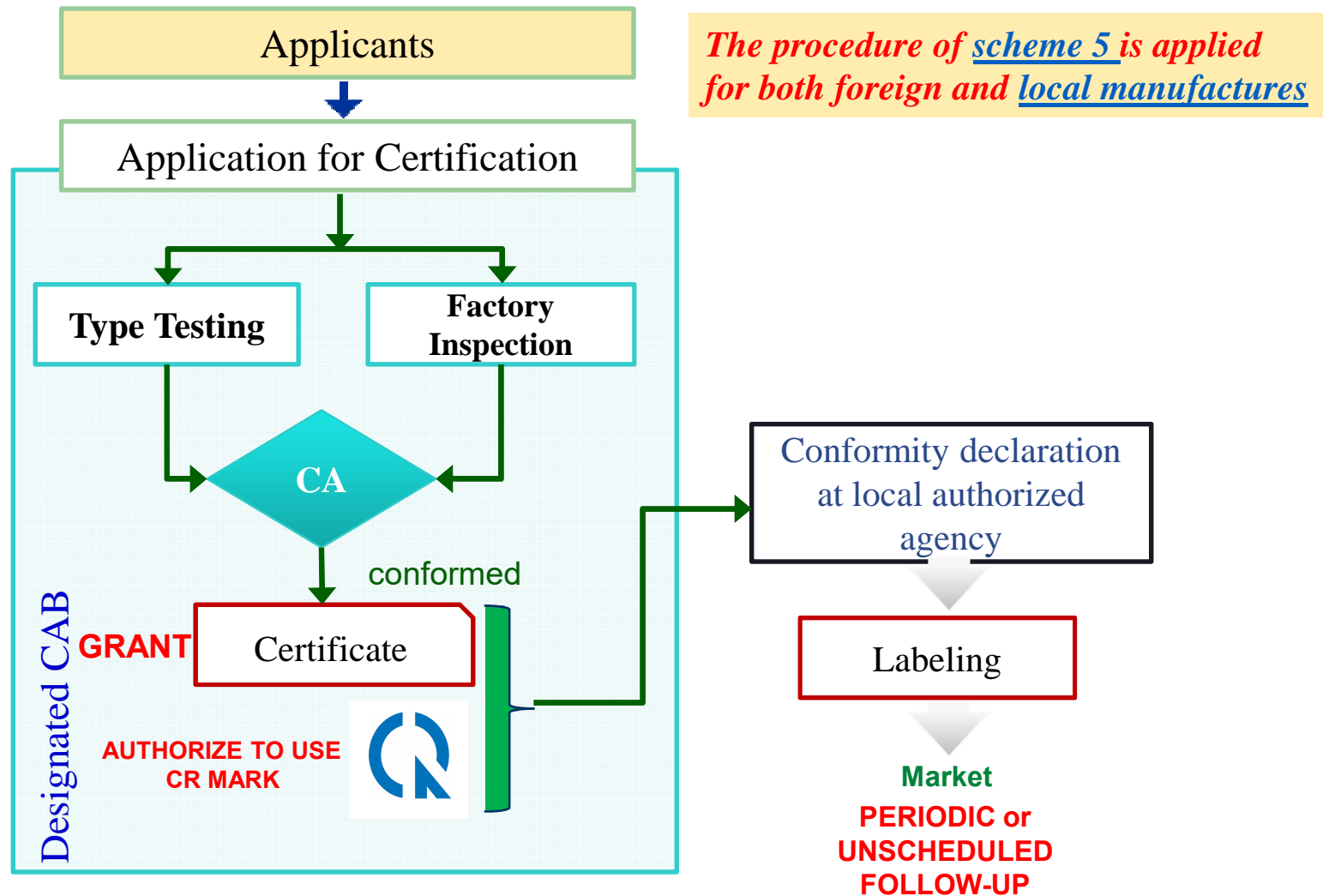
SCHEME 1a: PROCEDURE FOR TYPE-TEST CERTIFICATION



SCHEME 1b: PROCEDURE FOR LOT (BATCH) CERTIFICATION

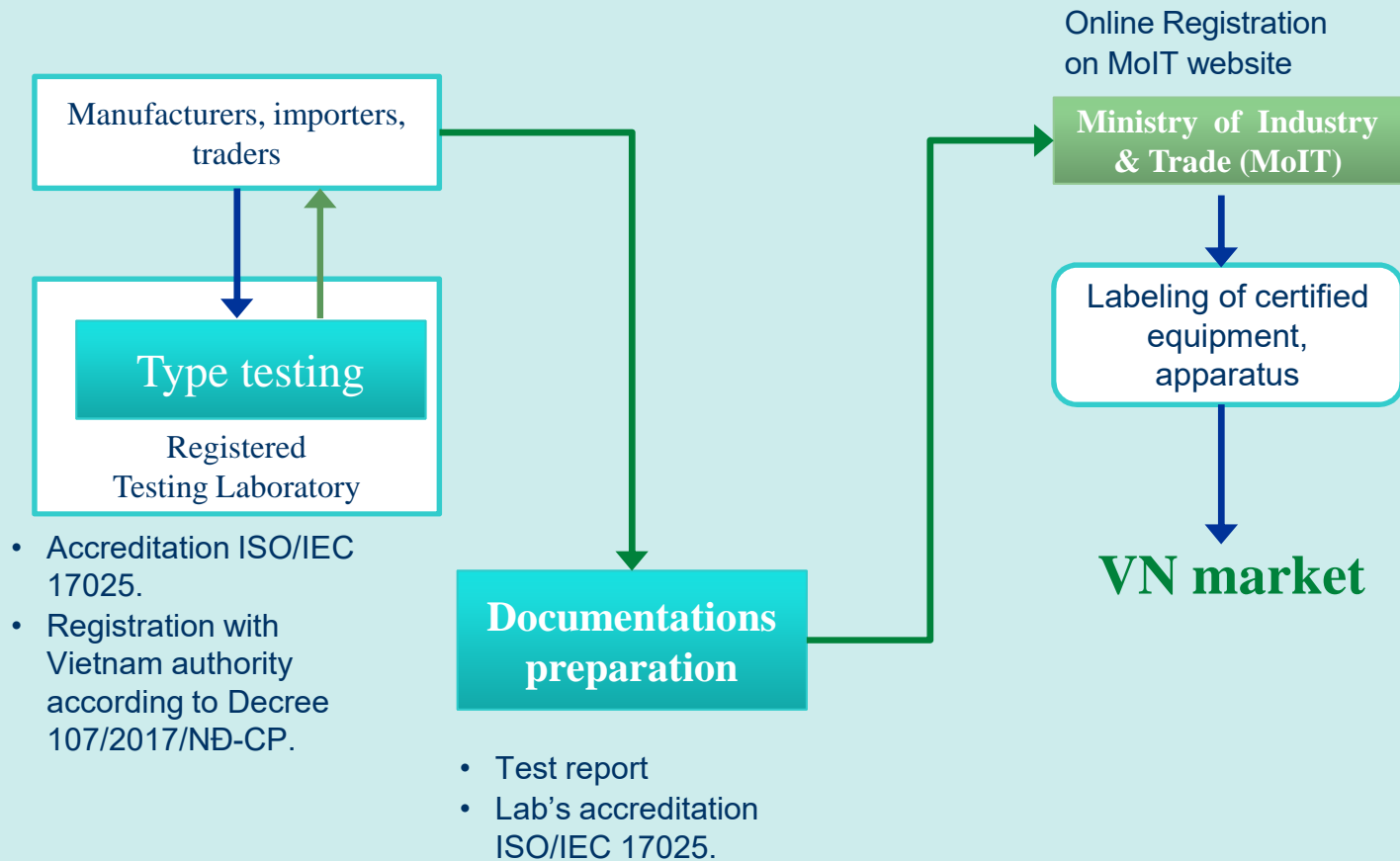


SCHEME 5: PROCEDURE FOR FACTORY INSPECTION + SAMPLE TESTING + FOLLOW-UP

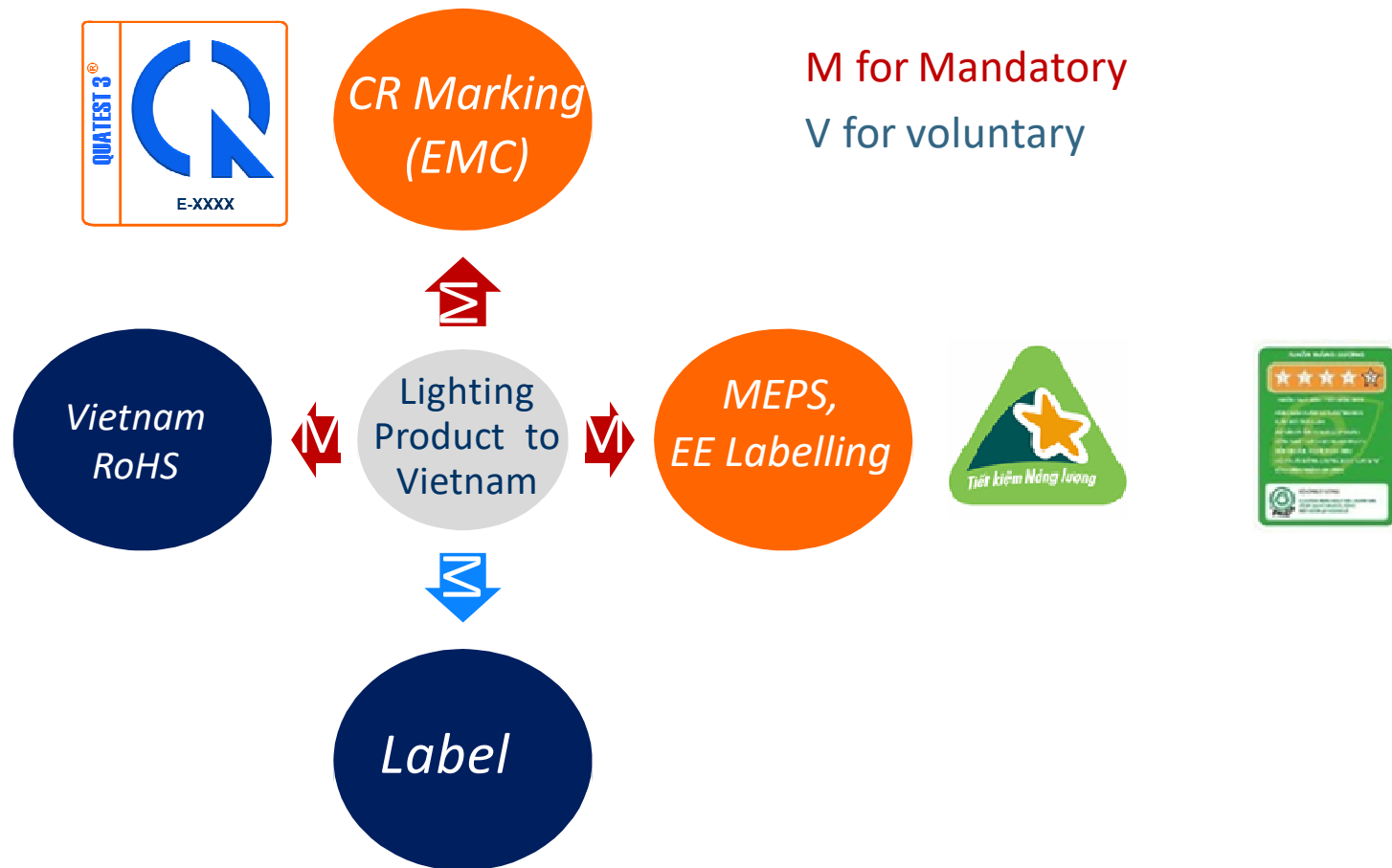




EE Labelling approval SDoC



Vietnam regulations for lighting product





Decree 43/2017/NĐ-CP On Goods Labeling



GENERAL REQUIREMENT:

Provides label contents and presentation thereof of goods circulated in Vietnam, including imported goods.

- **Mandatory contents on goods labels:** i) Name of goods, ii) Name and address of the enterprise responsible for the goods; iii) Origin of goods, and iv) Other details.
- **Language:** Mandatory information on the label must be written in Vietnamese.
- **Secondary labels for imported goods:** must contain Vietnamese.
- **Date of manufacture and expiration date:** must be written in the "date-month-year" format (according to the solar calendar)
- **Ingredients and ingredient quantities:** Presentation of ingredients means listing the name of materials, including any additives

ENERGY LABEL FOR LED PRODUCT IS CONFIRMATIVE LABEL



Model:
Energy consumption
for first 1000 hours:
(kWh).

Confirmative label is used on the LED lamp product that meet the minimum energy efficiency level specified by 4889/QĐ-BCT:

No.	Parameter	Sampling size	Requirement	Testing method																
1	Initial power	5	<ul style="list-style-type: none">• Average measured power $\leq 108\%$ rated power.• 85% rated power \leq all measured power of samples $\leq 115\%$ rated power.	TCVN 8783 (IEC 62612)																
2	Initial lumen	5	<ul style="list-style-type: none">• 90% rated lumen \leq average measured lumen.• 85% rated lumen \leq all measured lumen of samples.	TCVN 8783 (IEC 62612)																
3	Energy efficiency	5	<div><ul style="list-style-type: none">• Self-ballasted LED lamp (E27, B32):<table><tr><td rowspan="2">EE level</td><td colspan="2">Initial luminous efficacy (lm/W).</td></tr><tr><td>CCT \geq 4000 K.</td><td>CCT < 4000 K.</td></tr><tr><td>MEPS</td><td>70</td><td>60</td></tr></table>• Straight tube LED lamp (G5, G13):<table><tr><td rowspan="2">EE level</td><td colspan="2">Initial luminous efficacy (lm/W).</td></tr><tr><td>CCT \geq 4000 K.</td><td>CCT < 4000 K.</td></tr><tr><td>MEPS</td><td>90</td><td>80</td></tr></table></div>	EE level	Initial luminous efficacy (lm/W).		CCT \geq 4000 K.	CCT < 4000 K.	MEPS	70	60	EE level	Initial luminous efficacy (lm/W).		CCT \geq 4000 K.	CCT < 4000 K.	MEPS	90	80	TCVN 11843, 11844
EE level	Initial luminous efficacy (lm/W).																			
	CCT \geq 4000 K.	CCT < 4000 K.																		
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EE level	Initial luminous efficacy (lm/W).																			
	CCT \geq 4000 K.	CCT < 4000 K.																		
MEPS	90	80																		
4	Average life (life to 50% failures)	-	Min 12 000 h.	-																



THANK YOU !



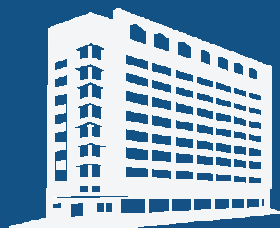
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