

Lighting Industry Development in Indonesia

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AILKI (Association of Luminaires and Electrical Equipments Indonesia)



AILKI Organization

Objectives

- Contribution to Indonesia Lighting and electrical industry
- Support ,develop and produce standard product in accordance to national standard

Members

Manufacturers and registered importers



Industry

Population	251 million people (2012)
Economic growth	6.3 percent p.a (2012)
House electrified	90 percent (100 % in 2020)
Property growth	5.3 percent p.a

1. Market

Shifting demand from GLS/Incandescent to CFL and LED recently (urban area)

Consumer behavior change to energy saving

Consumer behavior change to energy saving Better Quality product are demanding LED and CFL competition





Industry

2. Players

Local manufacturer product shifting (GLS – CFL – LED ?) Huge number of new players/brands on import CFL local manufacture sustain (labor/energy/material) Import sources from China / Korea /Japan / Taiwan

3. Competition

Unfair on quality / promotion and after sales service Create consumer disappointment on product/brand image Price reduce sharply on LED but not CFL



Industry

4. Standardization

Consumer information is needed
Establishment of CFL safety standard and Label
Under development of LED bulb standard
Lack of Laboratory facility and well trained operator
Need market control on standard implementation



LED lighting in Indonesia

- Various applications and brands introduce to market recently
- Mostly imported from CHINA /Korea /Taiwan
- New technology and low energy create good image to user
- New local players start as assembly LED maker
- Quality and warranty are Keywords to WIN
- Under develop National standard market



LED industry position in Indonesia

PRO's

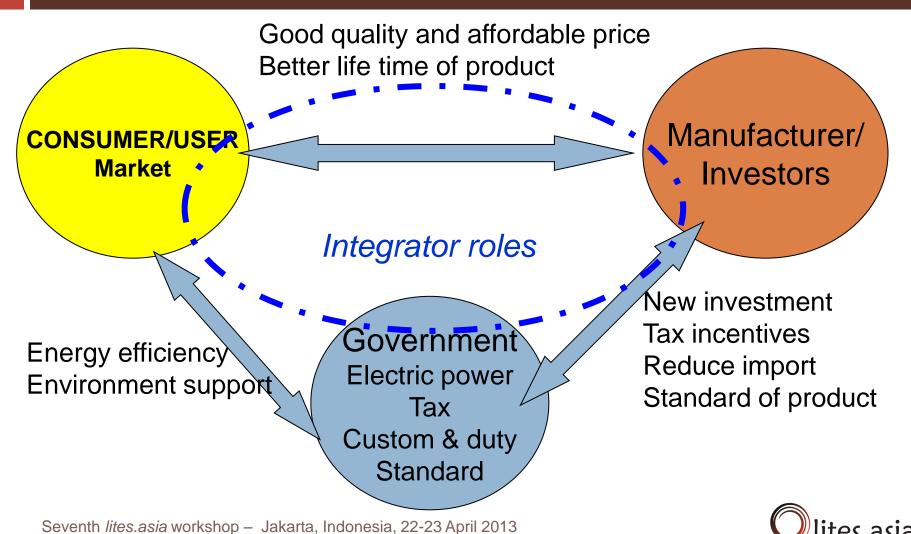
- Increase on CFL manufacture costs (energy, material, labor)
- Implementation on SNI standard and good control
- Consumer image and awareness on energy
- Better Life time ??
- Government support
- Less energy consumption on application and process cost
- Reduce import and add local value

CON's

- Huge capital investment
- Price reduction trend due to competition and royalty
- Availability of basic process e.g semiconductor
- Under develop standard
- Consumer information



LED investment perspective in Indonesia



Role and contribution of Association

- Support product Technology information to customers
 - lites asia's DRAFT quality guide line on LED June 2012
 - JLA product information guide



- Promote the industry to investors
- Support and actively develop National standard
- Support training and Laboratories establishment with other
- International Association



Thank you for visit Indonesia



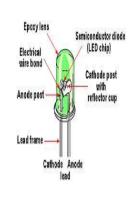


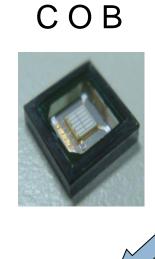


The products transition



















Press for return



JLA product info guide





誰にもわかる D無明

CONSUMER'S GUIDE FOR BUYING LED

> あなたが欲しいのは どんなLEDですか? What kind of LED do you want?



ダウンライトのソケットの取付位置に注意。

Be careful with the downlight's socket attachment position.

広がりや明るさを得られない場合がありますので、ご注意ください。

image rich relatifieble distribution with socker's different attachment on stings

直下がやや培い

estair可付けAがかっかっトに対応したタイプのラップもあります。

下図のように、ダウンライトのソケットが斜めや横向きの場合、適正な光の

LED 照明に変えたい方に「電球形 LED ランプ」の注意点

Caution points on self-ballasted LED-lamp for those wanting to retrofit to LED lighting



器具に Sマークが付いているか確認。 Confirm whether the S mark is attached to the luminaire.

ダウンライトなどの枠や反射板を確認して下図のような Sマークが付いている場合は、断熱材施工器具対応タイ ブを使ってください。パッケージに表示されていますの で、確認してください。





ランプの大きさ・重さを確認。

重いので、シャンデリアなどの多灯用照





Confirm the size and the weight of the self-ballasted LED-lamp.

照明器具のサイズによって、取付けられない場合もあります。事前に必ず、

ランプのサイズを確認してください。また、一般電球やボール電球などより



調光器具や密閉形器具は、対応タイプを使用。

Luminaire with a dimmer or with an enclosed light cover should use lamp conforming to its use.

調光器具には、調光器対応タイプ。密閉形器具 には、密閉形器具対応タイプのランプを使って ください。パッケージに表示されていますので、 確認してください。





Mac Market Mar

ガーデンライトやアプローチライトなど、屋外の器具(は、使用できません。

*一部基合银网友标子来了。



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ランプ交換について詳しくは→LEDランプの遊び方・供い方 http://www.jelma.or.jp/07 lankyouted amp.htm

