



香港機電業管理及專業人員協會 主辦

《建築物能源效益守則》及 《能源審核守則》 (2015 年版) 實務工作坊



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Lighting Installation

LPD

Definition

Lighting Power Density

'lighting power density (LPD) (unit : W/m²)' means the maximum circuit wattage consumed by fixed lighting installations per unit floor area of an illuminated space.

(In equation form, the definition of LPD is given by:

$$\text{LPD} = \frac{\text{Total circuit wattage of the fixed lighting installations}}{\text{Internal floor area of that space}}$$

,where the total circuit wattage should be taken at the full lighting output condition.)

Circuit wattage:

counting also the loss from driver, dimmer and step-down Tx.

Full lighting output:

Dim-and-fix **not** permissible.

Type of space

Computer Room / Data Centre

Court Room

Passenger Terminal Building

Refuge Floor

School Hall

Server Room / Hub Room

Classroom / Training Rm

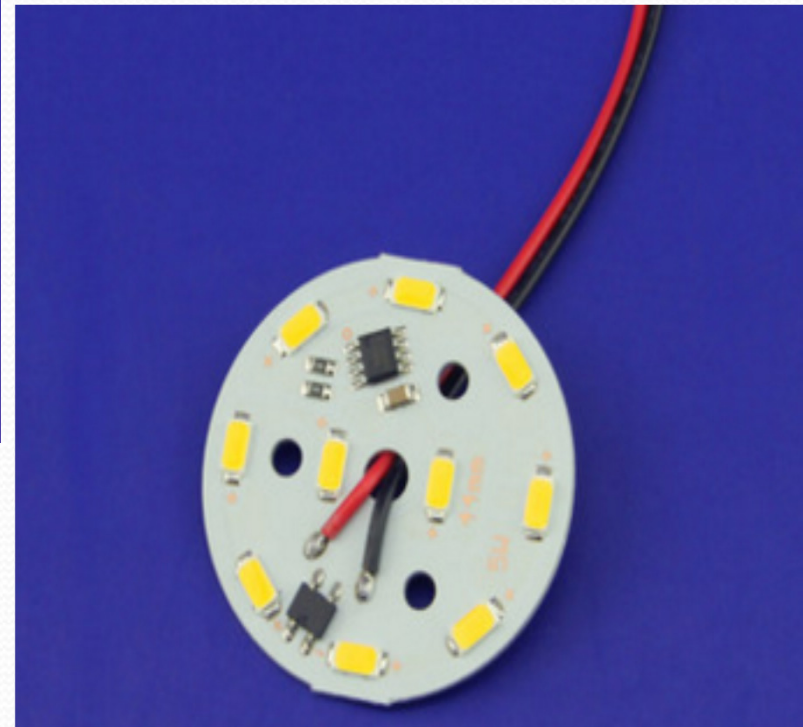
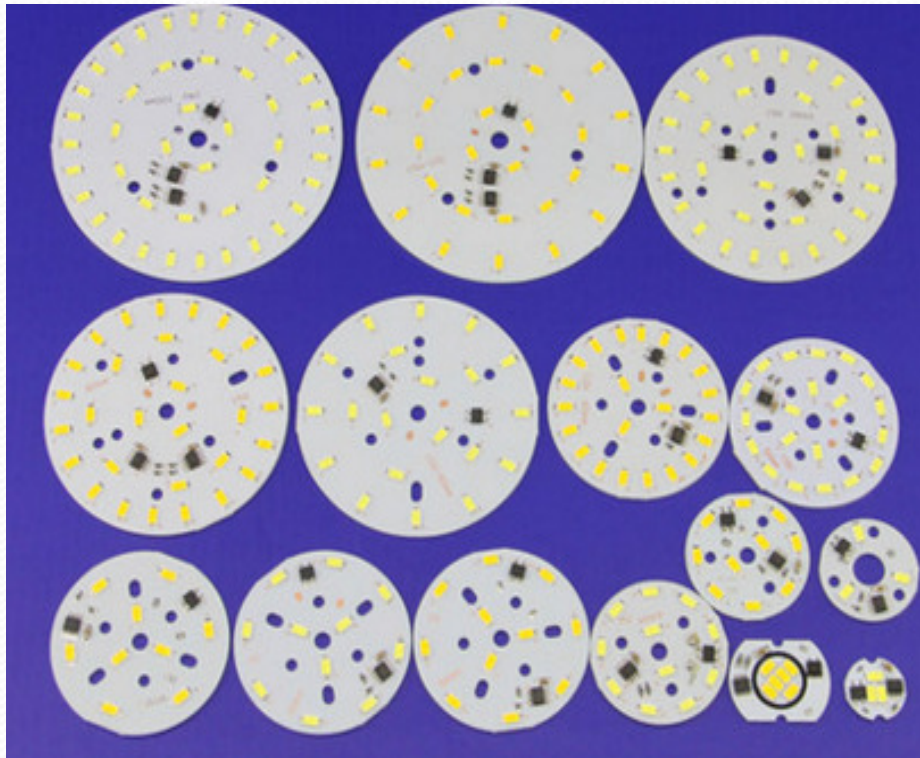
Loading & Unloading Area

Office, open plan or with internal floor
area above 15m²

Plant Rm/ Machine Rm/ Switch Rm

Workshop

220V LED Lighting





Lighting Installation

Min. Lighting Control Points

Remote Control



Remote Control







Lighting Installation

A control point covers
not more than 500 m²
for spaces other than for
office use



Lighting Installation

Automatic Lighting Control

Type of space

Atrium

Carpark

Classroom / Training Room

Computer Room / Data Centre

Conference / Seminar Room

Corridor

Court Room

Dormitory

Type of space(Con't)

Entrance Lobby

Gymnasium / Exercise Room

Lecture Theatre

Lift Lobby

Loading and Unloading Area

Office, enclosed or open plan

Public Circulation Area

Refuge Floor

School Hall

Storeroom / Cleaner

Toilet / Washroom / Shower Room

Lift Car



Timer





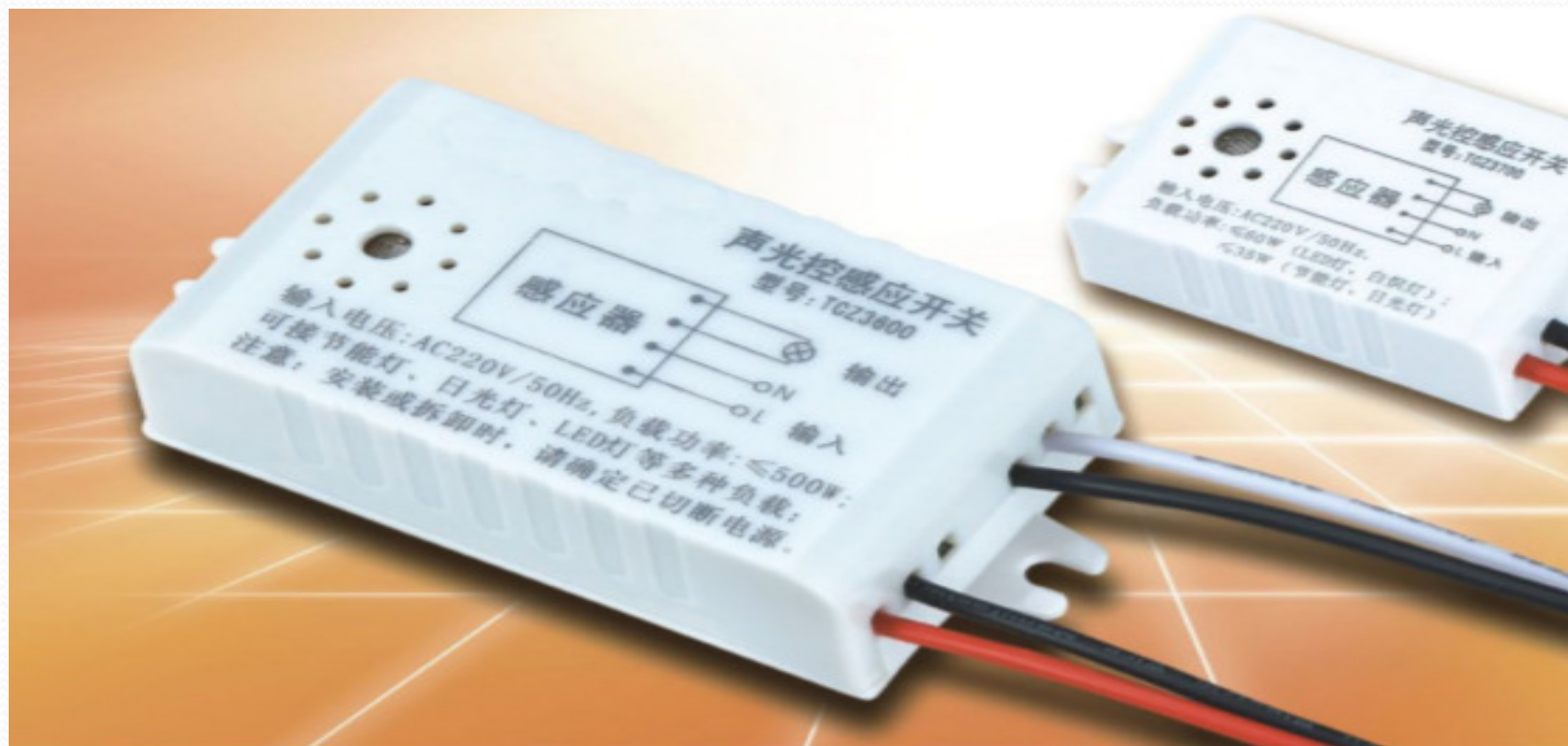






Microwave(Radar) Sensor
LED Floodlight Series

微波(雷达)感应防盗LED投光灯系列



Acousto-Optic
Control Switch Series
声光控感应开关系列



Automatic Lighting Control

daylight responsive controls





Light Sensor



Light Sensor





Energy Meter



Electrical Installation



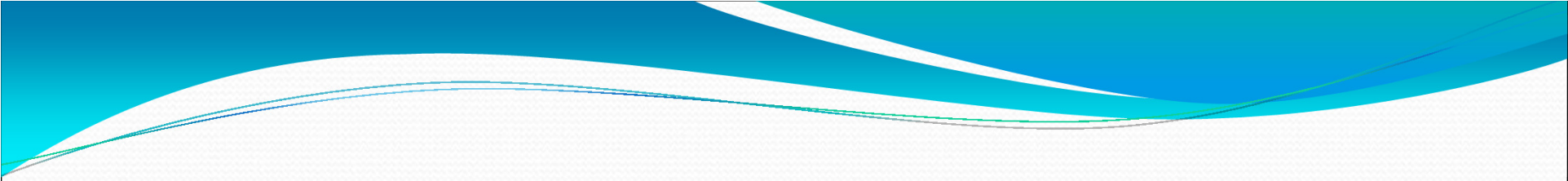
100:5A 150:5A 200:5A
current ratio Split current

Electrical Installation





Lift & Escalator Installation

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- Lift car ventilation fan power consumption
 - Lift car automatic lighting control
 - Metering & monitoring facilities in electrical circuits of motor drive

Energy Meter





THANK
YOU