



Model No : TLY-MB-B-18XK-0D-01

Spec No.	Date	Page	Ver.
/	Feb/25/2016	1/8	A2

# Jiang Xi TALOYA Technology CO. LTD.

## SPECIFICATION FOR APPROVAL

Company Name: \_\_\_\_\_

Product Name: LED Square Panel Light

Part No: TLY-MB-B-18XK-0D-01

Description: AC100-240V 50/60Hz

Your Part No: \_\_\_\_\_

For customer filling			
Confirmed department.			
Confirmed result			
(Signature)			
Finally result			

Approve	Auditing	Make
Hailin Zhou	Haimin Guo	Martin Liu

**SHENZHEN Add:**  
**613, Huanancheng Development Center, Pinghu St., Longgang Dist., Shenzhen,**  
**Guangdong, China (Mainland)**  
 TEL: 86-755-84669045 FAX: 86-755-84573610 Email: tw@taloya.cn www.taloya.com

Spec No.	Date	Page	Ver.
/	Feb/25/2016	2/8	A2

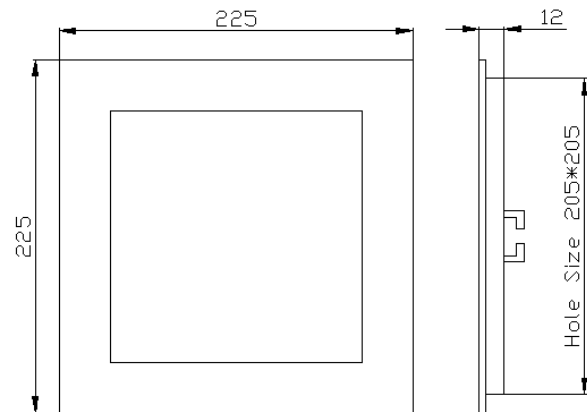
## Product Description

- ◆ Energy saving—Have constant current driver, ultra-low power consumption, high efficiency
- ◆ Environmental—No UV & infrared radiation, Light without the heat, more soft light.
- ◆ Super bright—Use high bright LED, vertical illuminance is exceed to other factory's.
- ◆ Long life—Up to more than 20,000 hours.
- ◆ Attractive appearance—With bright appearance, non-pollution and slim and light, easily installed without fixed holder

## Product Picture

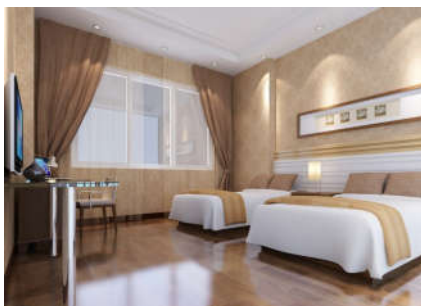
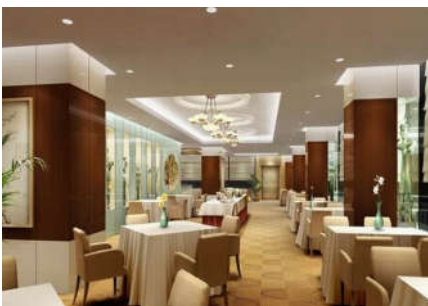


## Product Dimensions

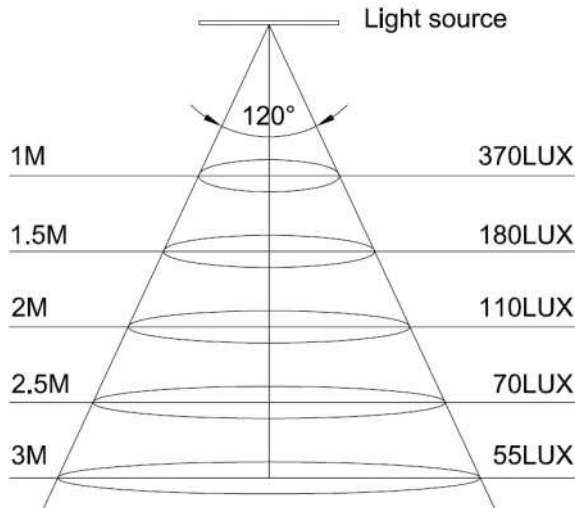


## Application area

It can totally replace fluorescent lamp, applications in various areas of lighting. Such as hotels, bars, supermarkets, restaurants, museums, exhibition halls, conference room, shops, warehouses, home lighting and other places.



## Average illumination figure



## Device Selection Guide

Part No.	Color	Dom. Wavelength or CCT(Typ.)	Lumen		LED Type
			Typ.	Max	
TLY-MB-B-18CK-0D-01	Cool white	6500K	1300	1450	SMD 2835
TLY-MB-B-18WK-0D-01	Warm white	3000K	1300	1450	SMD 2835

Note: [1] If you have any special request, please contact with our salesmen.

## Technical Parameter at $T_A=25^\circ\text{C}$

Items	Symbol	Min.	Typ.	Max.	Units
Power Consumption	P	17	18	19	W
Single loop input Voltage (AC) <sup>[1]</sup>	$V_i$	100	---	240	V
Single loop input current (AC) <sup>[1]</sup>	$I_f$	110	---	270	mA
Viewing Angle	VA	115	120	125	Deg.
Surface Temperature in Operation Condition	/	-20	---	40	$^\circ\text{C}$
Surface Temperature in Storage Condition	/	-40	---	55	$^\circ\text{C}$
Lifespan	H	---	20000	---	H

Note: [1] It is recommended to use the typical input voltage to drive LED light. The unsuitable input voltage will damage the LED light or reduce the life of product.

Spec No.	Date	Page	Ver.
/	Feb/25/2016	4/8	A2

## ■ Integrating sphere test data

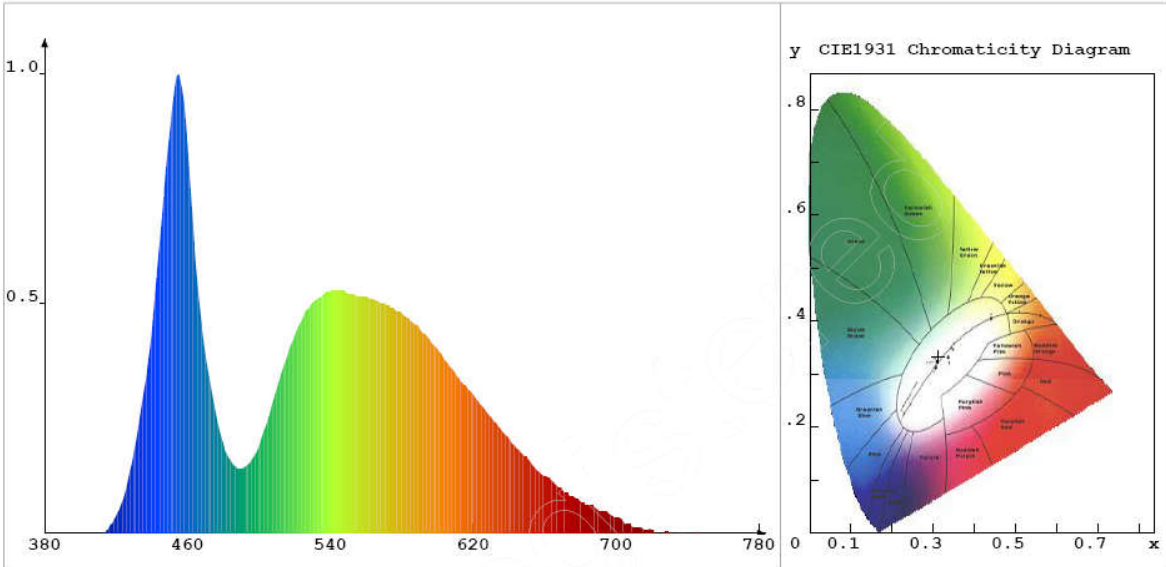
- ◆ Cool white

Spec No.	Date	Page	Ver.
/	Feb/25/2016	5/8	A2

## LED Test Report

**Product Mark**

Product Type : TLY-MB-B-18CK-0D-01    Manufacturer : TALOYA  
 Temperature : 25°C    Humidity : 75%  
 Operator : Martin    Test Date : 2015-10-05



**Chroma Parameters**

Chro.Coor.: x=0.3120    y=0.3332    u=0.1958    v=0.3136    duv=0.0056  
 CCT: Tc= 6513K    Dominant Wave.: 492.7nm    Purity: 7.2%  
 R ratio: R= 12.1    Peak Wavelength: 454.3nm    Half Width: 25.1nm

**Rending Index: Ra= 73.7**

R1 =69.7    R2 =79.5    R3 =83.6    R4 =71.5    R5 =70.5    R6 =70.4    R7 =84.6  
 R8 =59.8    R9 =-26.3    R10=48.6    R11=66.0    R12=36.0    R13=72.1    R14=90.8  
 R15=65.2

**Photo Parameters**

Flux: 1327.00lm    Effi.: 76.7lm/W    RadiantPower: 4577.0mW

**Ele. Parameters**

Voltage:U=215.0V    Current:I=0.119A  
 Power:P= 17.3W    Power Factor:PF=0.68

**Instrument state**

IntgeTime: 63.000ms    VPeak: 13173    VDark: 1102  
 Scan Range: 380-780nm

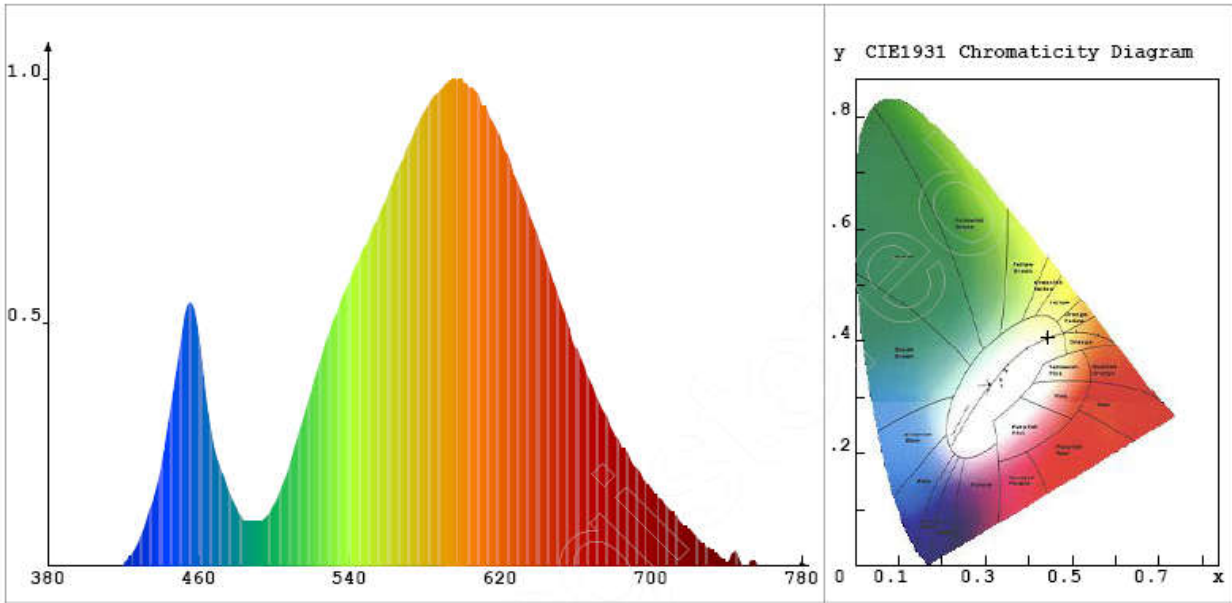
◆ Warm white

Spec No.	Date	Page	Ver.
/	Feb/25/2016	6/8	A2

## LED Test Report

### Product Mark

Product Type : TLY-MB-B-18WK-0D-01    Manufacturer : TALOYA  
 Temperature : 25°C    Humidity : 75%  
 Operator : Martin    Test Date : 2015-10-05



### Chroma Parameters

Chro.Coord.:  $x=0.4450$   $y=0.4070$   $u=0.2545$   $v=0.3492$   $duv=0.0002$   
 CCT:  $T_c=2891K$  Dominant Wave.: 584.2nm Purity: 55.8%  
 R ratio:  $R=22.1$  Peak Wavelength: 592.4nm Half Width: 123.9nm

### Rending Index: $R_a=72.2$

$R_1=68.8$   $R_2=82.0$   $R_3=91.7$   $R_4=66.9$   $R_5=67.1$   $R_6=73.8$   $R_7=79.4$   
 $R_8=48.0$   $R_9=-19.1$   $R_{10}=56.7$   $R_{11}=58.3$   $R_{12}=42.8$   $R_{13}=71.1$   $R_{14}=94.8$   
 $R_{15}=63.7$

### Photo Parameters

Flux: 1287.00lm    Effi.: 74.8lm/W    RadiantPower: 4894.2mW

### Ele. Parameters

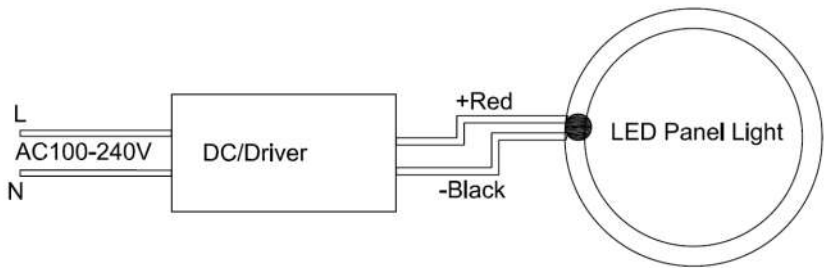
Voltage:  $U=216.0V$     Current:  $I=0.120A$   
 Power:  $P=17.2W$     Power Factor:  $PF=0.68$

### Instrument state

IntgeTime: 63.000ms    VPeak: 15053    VDark: 1097  
 Scan Range: 380-780nm

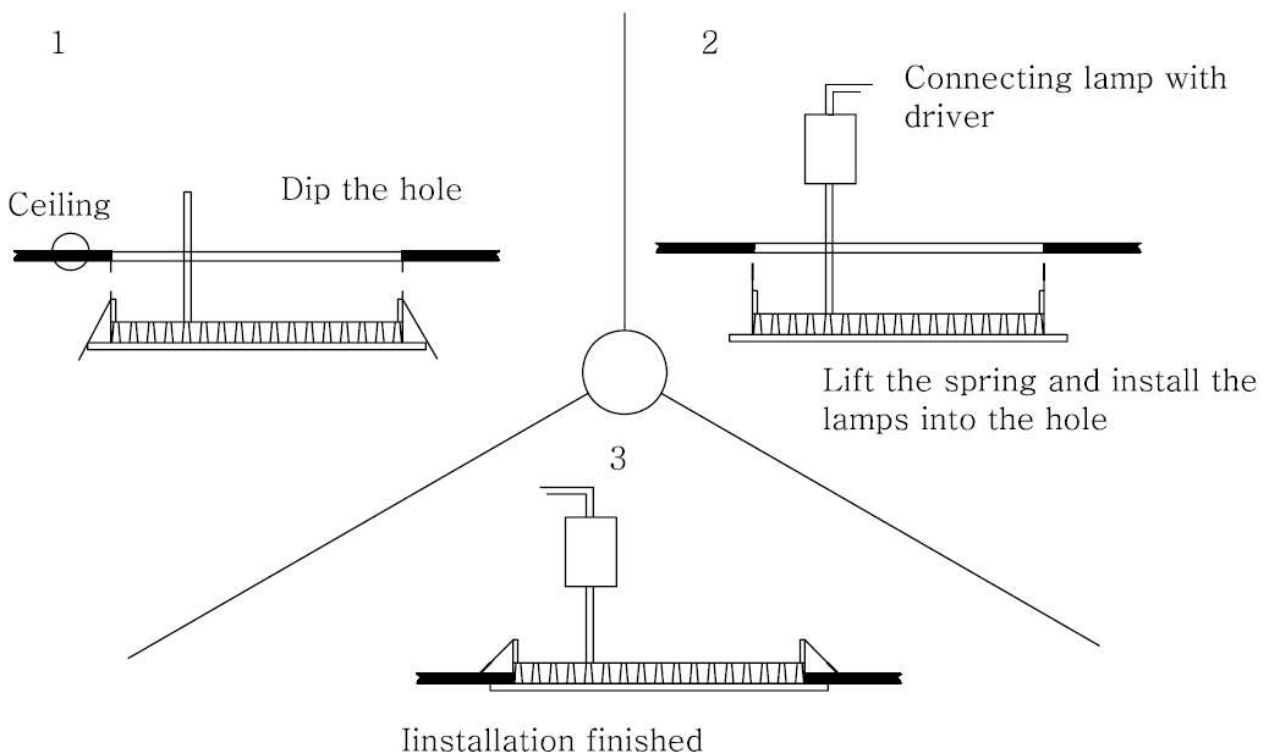
Spec No.	Date	Page	Ver.
/	Feb/25/2016	7/8	A2

## Connection



## Installation Instruction

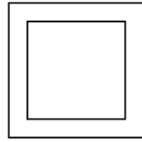
◆ **Attention:** Before installation, power must be cut off to keep people safe.



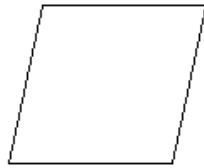
Notice: turn off the light before install or uninstall

Spec No.	Date	Page	Ver.
/	Feb/25/2016	8/8	A2

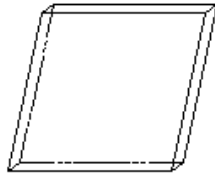
## ■ The view of package



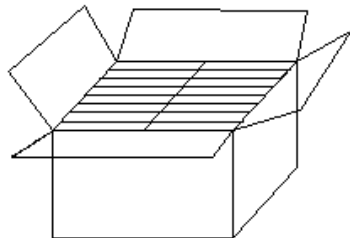
Panel light



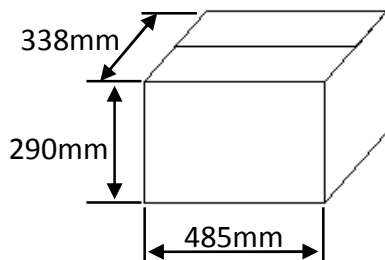
PE bag



Inner box



20pcs/Carton



Sealed carton

Size of panel(mm)	225*225*12mm
Hole size(mm)	205*205mm
Inner box size	L*W*H: 232x270x29mm
Carton size	L*W*H: 485x338x290mm
Packing quantity	20pcs
Net weight	8.66kg
Gross weight	10.80kg