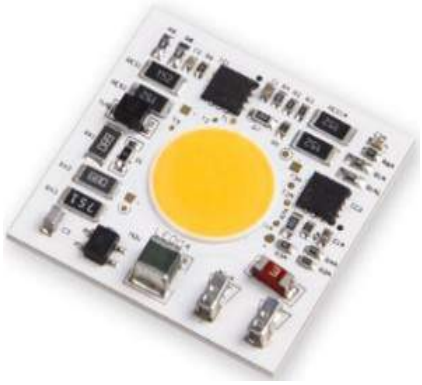
High Power AC LED Module

P/ N: HL– LE004D46W-30B2C86(Ra2)

1 Part code



LE 004 D46 W X BXCX (Ra2)

Product line

Product code base plate

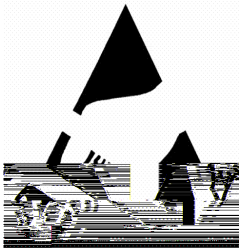
Chip code

Emitting light colors

Power

Serial/Parallel connection

CRI



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

2.Features

- Dimension :45.0mm 45.0mm 3.5mm 40.0mm 40.0mm 3.5mm
- Combination of COB and AC technology COB AC
- Long lifetime
- PF>0.95 THD<20% 0.95 20%
- Compatible with TRIAC dimmers
- Easy assembly
- RoHS compliant RoHS

3.Applications

- Spot Light
- Bulb
- Down lighting

Copyright@2016 Guangzhou Hongli Opto-Electronic Co., Ltd. All rights reserved.

Parameter	Symbol	Rating Value	Units
Maximum Voltage	V_{OPT}	250	V[RMS]
Power Dissipation	P_D	33	W
Junction Temperature (1)	Tj LED	120	
	Tj-IC	125	
Top of the IC temperature IC	Tp	100	

Copyright@2016 Guangzhou Hongli Opto-Electronic Co., Ltd. All rights reserved.

(2) Electro-Optical Characteristics at Tc=25°C

Tc=25°C

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
[redacted]erating Voltage (1)	V_{OPT}		200	230	250	V
Power Dissipation	P_D	V_{OPT}=230V 50HZ	28.5	30	31.5	W
[redacted]ous Flux	Φv	TC=3000K	2620	2850	3130	lm
		TC=5700K	2700	2940	3230	
CRI	Ra	V_{OPT}=230V 50HZ	80			
Power Factor	PF	V_{OPT}=230V 50HZ	0.95			
Tolerance of Surge (7)	Vs		500			V

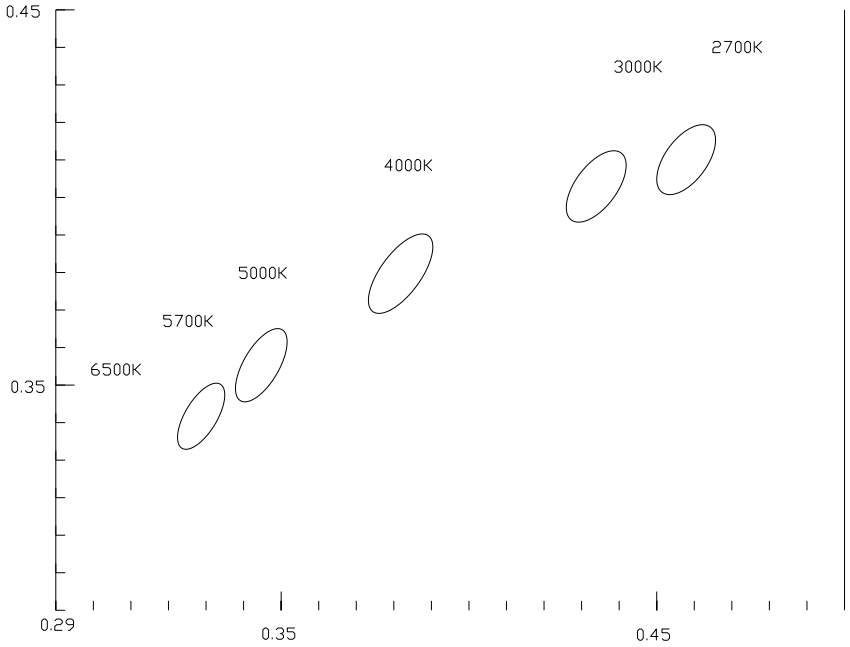
Copyright@2016 Guangzhou Hongli Opto-Electronic Co., Ltd. All rights reserved.

6.Characteristics

Copyright@2016 Guangzhou Hongli Opto-Electronic Co., Ltd. All rights reserved.

7.Product bins

Chromaticity bins



Notes

Copyright@2016 Guangzhou Hongli Opto-Electronic Co., Ltd. All rights reserved.

8.Packing Specifications

Label on blister packaging

Label on box

Packing figure

Ven-US LuE:plorbemper SVen-US
Copyright@2016 Guangzhou Hongli Opto-Electronic Co., Ltd. All rights reserved.

Precautions ( )

1. Storage

To avoid moisture, we recommend storage conditions for the unopened LED ing the package. Please make sure to dehumidify and vacuum pack the remaining/ for the sealed led is one year.

Copyright@2016 Guangzhou Hongli Opto-Electronic Co., Ltd. All rights reserved.

Please make sure of not getting short during the welding process.

Due to connecting high voltage, pay attention to safety when installing and/or testing.

.

Do not touch the module without any reasonable ESD protection while circuit is active.

PCB

Hot-plug test is not recommended

3 Cautions for use

The module is recommended to apply in indoor lighting Before using altered specifications

other than recommended, please consider risk factors.

Faults, lightning, or switching transients can cause voltage surges in excess of the normal ratings.

Internal component failure can cause excessive voltages.

Electrical Over-Stress (EOS) is defined as damage that may occur when an electronic device is subjected to a current or voltage that is beyond the maximum specification limits of the device.

EOS

Copyright@2016 Guangzhou Hongli Opto-Electronic Co., Ltd. All rights reserved.

4 Anti-Static Measures

Please take adequate measures to prevent electrostatic generation, such as wearing electrostatic ring or anti-static fingerstall etc; any relative products like plant equipment, machinery, carrier and transportation units shall be connected to discharging unit/ ground. The ESD sensitivity of this product is > 1000V, after assembly the final lamp, please make sure to dis-charge Static Electricity by proper ESD equipment.

1000V S LED

5. Temperature Control

Recommended temperature conditions for enhanced product life: Be sure to Tp

Tp IC COB

6.Other

Product is not suitable to use in following conditions

Touch the silicone resin area with sharp objects such as pincett (tweezers).

Excessive force more than 3000gf on the silicone lens.

3000gf

Cover the silicone resin area with any other resins such as epoxy, urthane, etc

Assemble/use in conditions of high moisture and/or strong oxidizing gas such as Cl, H_2S, NH_3, SO_2, NO_X, etc.

Cl, H2S, NH3, SO2, NOX

Use with substance containing sulfur.

Long time exposure to sunlight or UV can cause silicone discolored.

UV

Exposed to dust, liquids or oils.

Copyright@2016 Guangzhou Hongli Opto-Electronic Co., Ltd. All rights reserved.