



Under Development

Mass production

1 Part code

<u>LE 004 D46 W -X BXCX (Ra2)</u>

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

indoor lighting

Spot Light

Bulb.

Down lighting

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

SPEC NO:B-16-C-0064 REV NO: A/0 DATE: Mar/2016 PAGE: 2 OF 10



HONGLITRONIC 鸿利光癒 High Power AC LED Module P/N: HL- LE004D46W-30B2C86(Ra2)

Under Development

Mass production

Parameter	Symbol	Rating Value	Units	
Maximum Voltage	V_{OPT}	250	V[RMS]	
Power Dissipation	P_{D}	33	W	
Junction Temperature (1)	Tj LED	120		
Junction Temperature (1)	Tj-IC	125		
Top of the IC temperature IC	Тр	100		
Operating BT/F17 12 /Lang (en-US)>>BDCBT0	f*EMC/P < <td>5486. 741257. 94</td> <td>28.822 ref*l</td> <td>EMC17 1</td>	5486. 741257. 94	28.822 ref*l	EMC17 1

p

Electronic Co., Ltd. All rights reserved.

SPEC NO:B-16-C-0064 REV NO: A/0 DATE: Mar/2016 PAGE: 3 OF 10



25

High Power AC LED Module P/N: HL-LE004D46W-30B2C86(Ra2)

Under Development	
Mass production	

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

at Tc=25°C

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Operating Voltage (1)	V _{OPT}	_	200	230	250	V
Power Dissipation	P _D	V _{OPT} =230V 50HZ	28.5	30	31.5	W
Luminous Flux	•	TC=3000K	2620	2850	3130	l
	Φν		2700	2940	3230	lm
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.

SPEC NO:B-16-C-0064 REV NO: A/0 DATE: Mar/2016 PAGE: 4 OF 10



Under Development

Mass production

6.Characteristics

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

SPEC NO:B-16-C-0064 REV NO: A/0 DATE: Mar/2016 PAGE: 5 OF 10

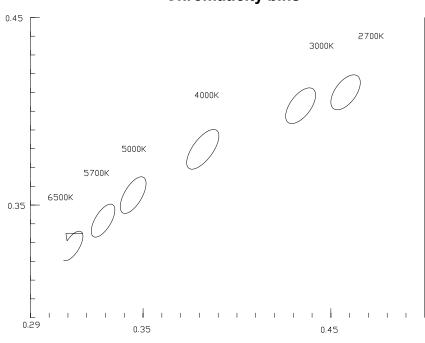


Under Development

Mass production

7.Product bins





Center TC	2725K	3045K	3985K	5028K	5665K	6530K
X,Y	0.4578,0.4101	0.4338,0.403	0.3818,0.3797	0.3447,0.3553	0.329,0.3417	0.3123,0.3282

Notes

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

SPEC NO:B-16-C-0064 REV NO: A/0 DATE: Mar/2016 PAGE: 6 OF 10



Under Development

Mass production

8. Packing Specifications



Label on blister packaging

Label on box

Packing figure

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

SPEC NO:B-16-C-0064 REV NO: A/0 DATE: Mar/2016 PAGE: 7 OF 10



Under Development	_

Mass production

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.

SPEC NO:B-16-C-0064 REV NO: A/0 DATE: Mar/2016 PAGE: 8 OF 10



Under Development

Mass production

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

SPEC NO:B-16-C-0064 REV NO: A/0 DATE: Mar/2016 PAGE: 9 OF 10



Under Development

Mass production

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 discharge 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 C1, H_2S , NH_3 , SO_2 , NO_x , etc.

C1, H2S, NH3, S02, 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.

SPEC NO:B-16-C-0064 REV NO: A/0 DATE: Mar/2016 PAGE: 10 OF 10