

SPECIFICATION FOR APPROVAL



CUSTOMER NAME : _____

PART No. : 18W White High Power LED

ISSUE DATE : 2010-11-17

ACCESSORY : _____

APPROVED SIGNATURES

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LEKUNG INDUSTRIAL CO LTD

Address: 6Tianfu'an Industrial Zone, Jiuwei Village Xixiang Town, Bao'an District, Shenzhen
Guangdong 518126 China

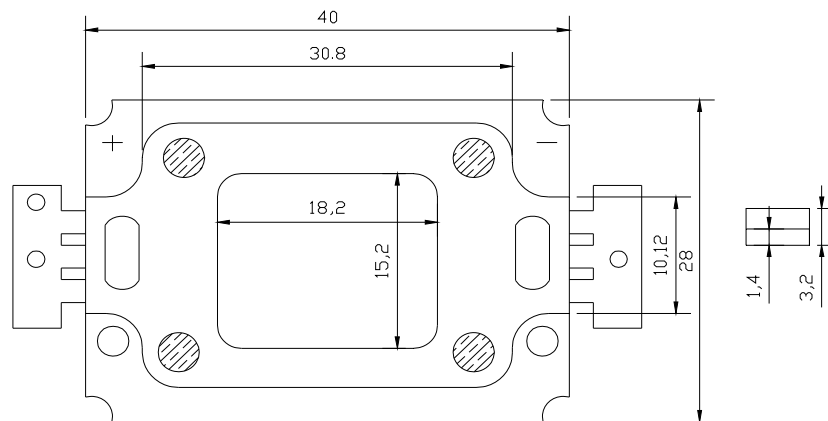
Tel: 0755-8614 4247 **Fax:** 0755-86144247

Http: //www.ledlightmaker.com

Approved	Verificationed	Tabulation

Tel: 0755-86144247
<http://www.ledlightmaker.com>
Email: rowa@ledlightmaker.com

Mechanical Dimensions:



Note:

1. All dimensions are in millimeters.
2. All dimensions without tolerances are for reference only.
3. Material as follows:

Package: Heat-Resistant Polymer

Electrodes: Cu Plating Copper Alloy

Absolute Maximum Ratings at Ta=25°C

Item	Symbol	Absolute Maximum Rating	Unit
DC Forward Current	I_F	900	mA
Peak Forward Current	I_F	1200	mA
Reverse Voltage	V_R	21	V
Power Dissipation	P_D	20	w
Electrostatic discharge	ESD	±4500	V
Operation Temperature	Topr	-40~+80	°C
Storage Temperature	Tstg	-40~+100	°C
Lead Soldering Temperature	Tsol	Max.260°C for 6 seconds Max.	

Notes:* IFP Conditions: pulse Width≤10msec.

* All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	V_F	18	---	22	v	$I_F=900mA$
Reverse Current	I_R	---	---	10	uA	$V_R=20v$
50% Power Angle	$2\theta_{1/2}$	---	140	---	deg	$I_F=900mA$
Luminous Intensity	ϕ_v	100		120	Lm/w	$I_F=900mA$
Chromaticity	T c	6000	---	6500	K	$I_F=900mA$

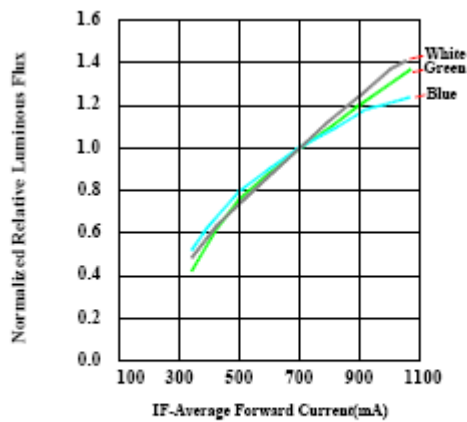
Notes:1.Tolerance of measurement of forward voltage±0.1V.

2.Tolerance of measurement of peak Wavelength±2.0nm.

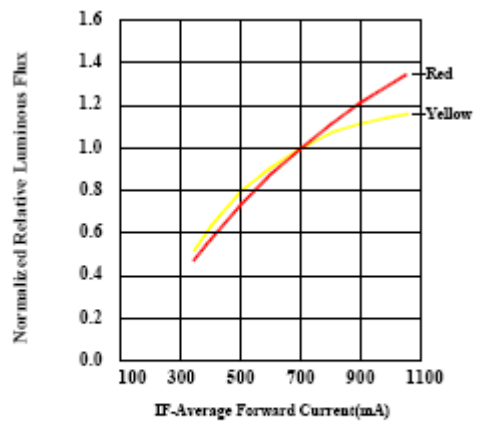
3.Tolerance of measurement of luminous intensity±15%.

■ Typical Electrical/ Optical Characteristics Curves
($T_a=25^{\circ}\text{C}$ Unless Otherwise Noted) :

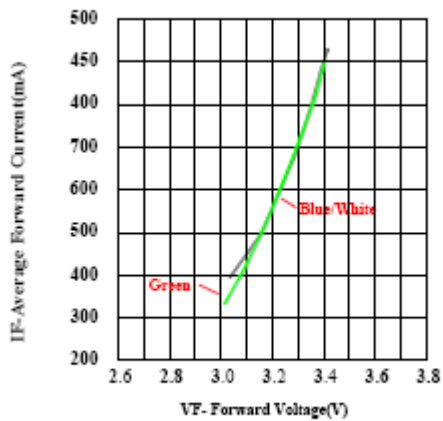
Forward Current Characteristics



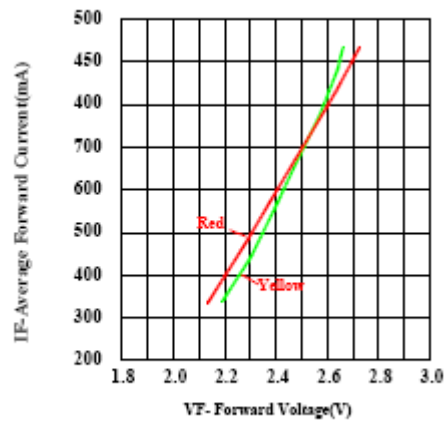
Relative Luminous Flux vs. Forward Current for White/Green/Blue



Relative Luminous Flux vs. Forward Current for Red/Yellow

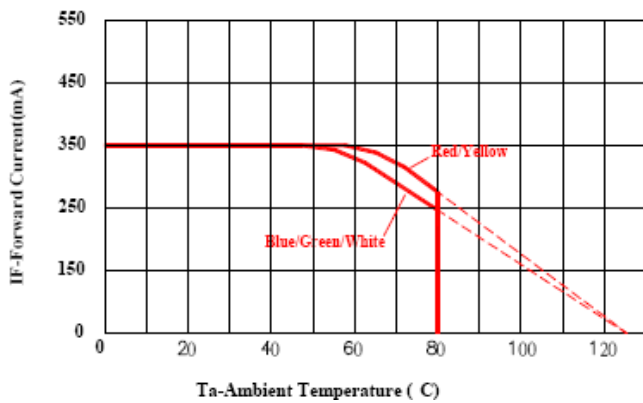


Forward Current vs. Forward Voltage for White/Green/Blue

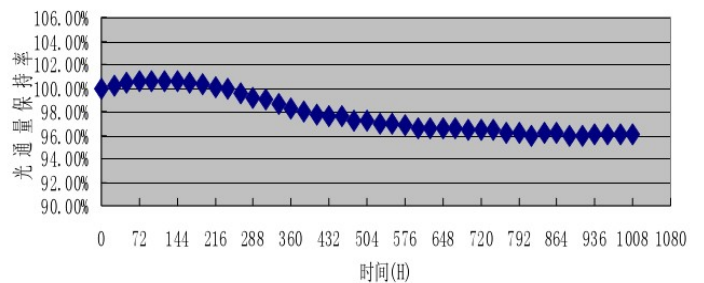


Forward Current vs. Forward Voltage for Red/Yellow

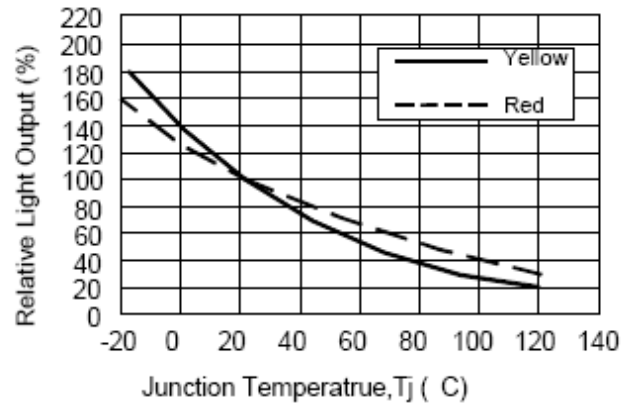
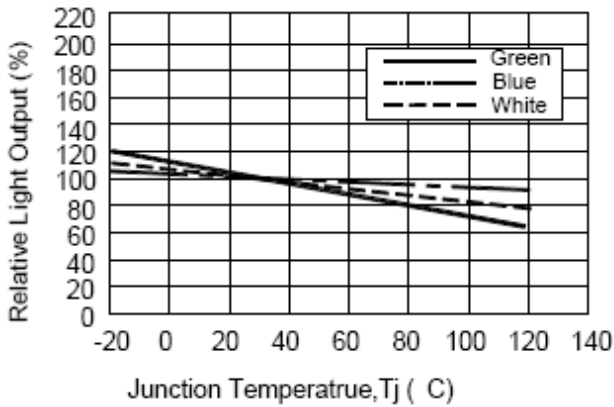
Current Derating Curves



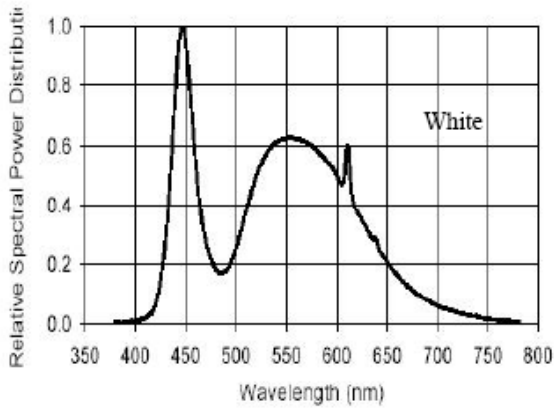
光通量保持率曲线图



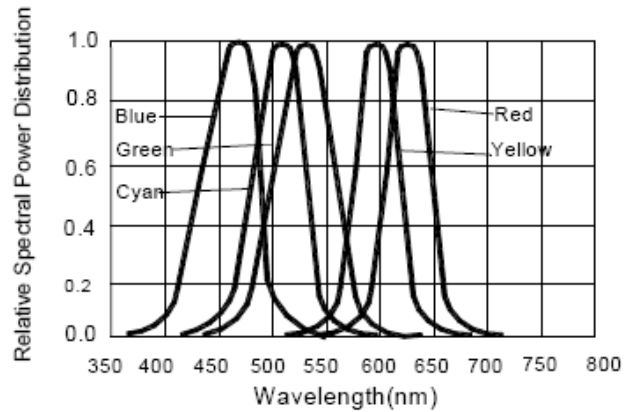
Light Output Characteristics



Wavelength Characteristics



Relative Intensity vs Wavelength (nm)



Relative Intensity vs. Wavelength(nm)

Typical Representative Spatial Radiation Pattern of single LED

