



Data Sheet

Customer:

Part No:

CL-3014UWC1A-001-UWW

Sample No:

Description:

3Ø Lamp Warm White Color

Item No:

Customer			
Check	Inspection	Approval	Date

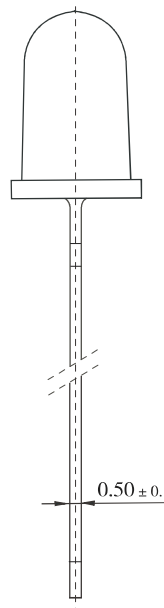
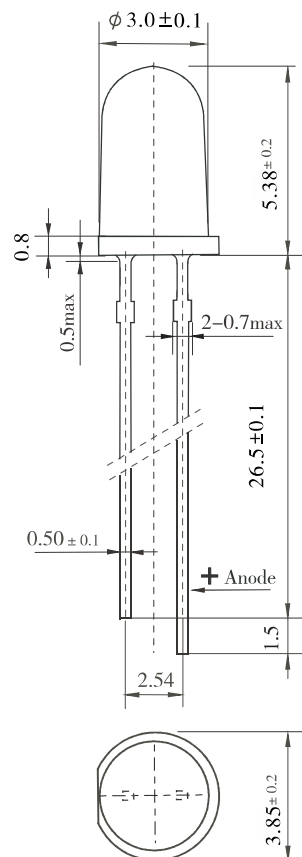
FEATURES

Low power consumption.
 High Efficiency
 Round type
 T1(3mm) diameter
 With Flange
 Solder leads without stand-off
 Compliant with RoHS

DESCRIPTIONS

Chip Material: InGaN
 Emitting Color: Ultra White
 Lens Color: Water Clear

OUTLINE DRAWING



ATTENTION



OBSERVE PRECAUTIONS
 FOR HANDLING
 ELECTROSTATIC
 SENSITIVE DEVICES

Tolerance is $\pm 0.25\text{mm}$
 Unless Otherwise Specified.

Electrical Optical Characteristics (Ta=25℃)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	V _F	---	3.2	3.6	V	IF=20mA
Luminous Intensity	I _V	7000	11000	---	mcd	IF=20mA
Chromaticity Coordinates (Tolerance: ± 0.01)	X	---	0.44	---	nm	IF=20mA
	Y	---	0.41	---	nm	IF=20mA
Spectral Line half-width	Δλ	---	30	---	nm	IF=20mA
Reverse Leakage Current	I _R	---	---	50	μA	VR=5V
Viewing Angle	2θ _{1/2}	---	30	---	Deg	IF=20mA

Absolute Maximum Parameters (Ta=25℃)

Parameter	Symbol	Condition	Rating	Unit
Power Dissipation	P _D	---	90	mW
Reverse Voltage	V _R	---	5	V
Forward Average Current	I _F	---	25	mA
Temperature coefficient	I/C	---	0.33	mA/℃
Pulse Current	IFP	Duty=1/10,1kHz	100	mA
Operating Temperature Range	T _{opr}	---	-25 ~ +85	℃
Storage Temperature Range	T _{stg}	---	-30 ~ +100	℃
Soldering Condition	T _{sd}	---	260℃/5sec	℃

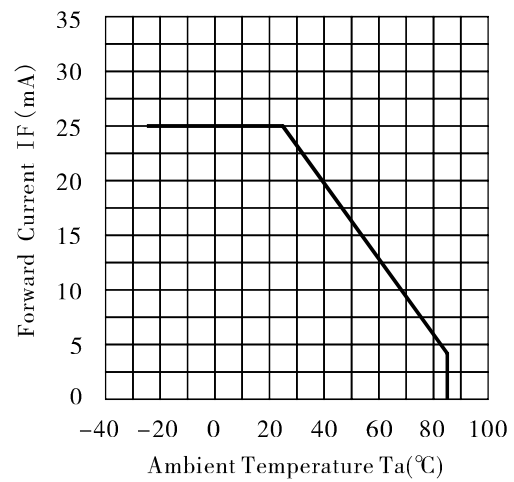
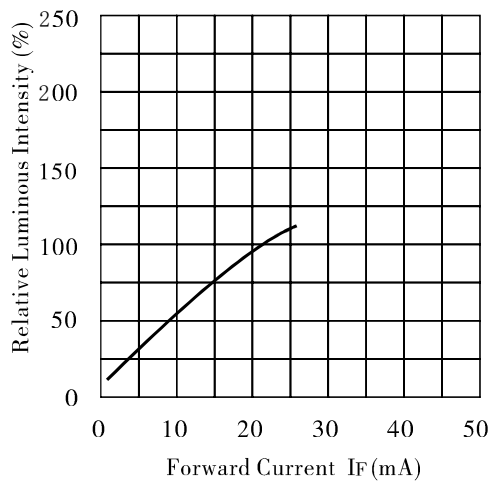
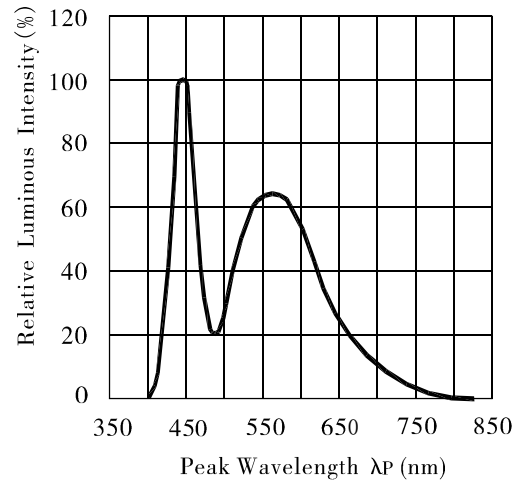
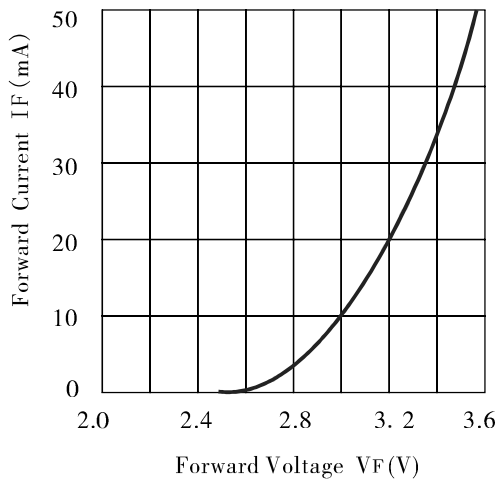
NOTE:

Luminous Intensity Measurement allowance is ± 10%.

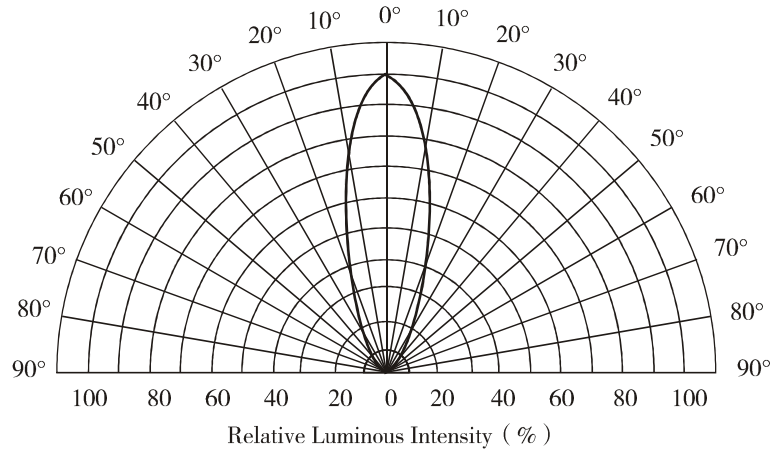
2θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

The dominant wavelength is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

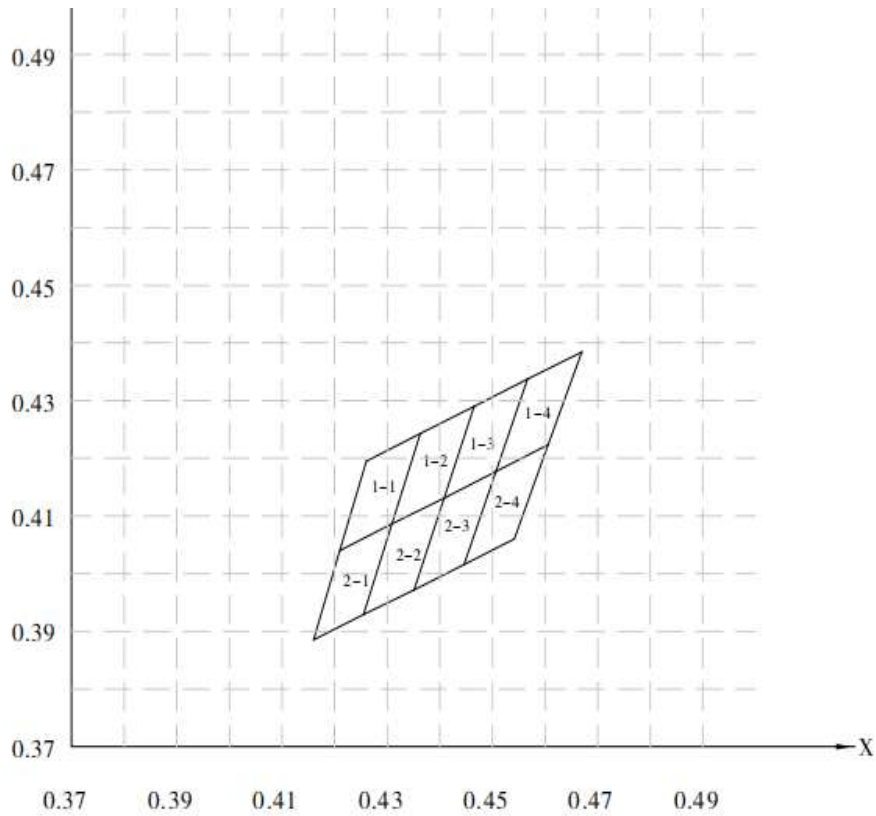
Typical Electro/Optical Characteristic Curves (Ta=25°C)



Directive Characteristics



Color distinguishes Bin specifications



坐标 BIN	X1	Y1	X2	Y2	X3	Y3	X4	Y4
1-1	0.4210	0.4040	0.4260	0.4195	0.4363	0.4243	0.4309	0.4086
2-1	0.4160	0.3885	0.4210	0.4040	0.4309	0.4086	0.4255	0.3929
1-2	0.4309	0.4086	0.4363	0.4243	0.4465	0.4290	0.4408	0.4131
2-2	0.4255	0.3929	0.4309	0.4086	0.4408	0.4131	0.4351	0.3972
1-3	0.4408	0.4131	0.4465	0.4290	0.4567	0.4337	0.4507	0.4177
2-3	0.4351	0.3972	0.4408	0.4131	0.4507	0.4177	0.4446	0.4016
1-4	0.4507	0.4177	0.4567	0.4337	0.4670	0.4385	0.4606	0.4223

Reliability Test Conditions

Test Item	Test Condition	Result	Judgment Criteria
Consecutive operating life test	IF=20mA, T=25℃, t=168h	0/100	Forward Voltage $V_F(V) = \text{Upper Limit} \times 1.2$ Reverse Leakage Current $I_R(\mu A) = \text{Upper Limit} \times 2.0$ Luminous Intensity IV $(mcd) = \text{Lower Limit} \times 0.7$
High temperature storage life test	T=100℃, t=168h	0/100	
Low temperature storage life test	T=25℃, t=168h	0/100	
High temperature humidity storage life test	T=85 ± 2℃, RH=85% ± 3, t=168h	0/100	
Temperature cycle test	-25℃~25℃~100℃ 30min 5min 30min 10cycles	0/100	
Thermal shock test	100℃ 0℃ 5min 5min 20cycles	0/100	
Soldering heat test	T=260 ± 5℃, t=10s ± 1s	0/100	
Solderability test	T=235 ± 5℃, t=5s ± 0.5s	0/100	Steeped Part ≥ 95%
Fall test	h=100cm, 50times	0/100	Surface Appearance Photoelectric Properties Intact
Terminal strength test	W=9.8N, t=30 ± 5s	0/100	
Lead bending test	W=4.9N, 2times	0/100	