



CIEL LIGHT CO., LTD.

PRODUCT SPECIFICATION

Model No. CL - 3014UWC1A - 6K

Drawing No. _____

Customer _____

Customer's Model No.: _____

Customer's Drawing No. _____

Features

Low Power Consumption

High Efficiency

Round Type

T1 (3mm) Diameter

With Flange

Solder Leads Without Stand - off

Compliant With RoHS

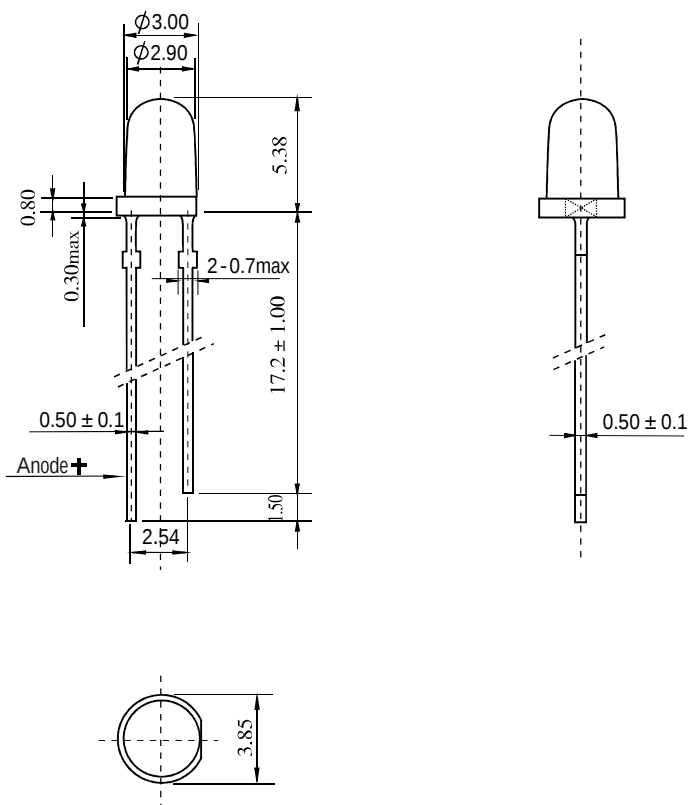
Descriptions

Chip Material: InGaN/GaN

Emitting Color: White

Lens Color: Water Clear

Outline Drawing



ATTENTION



OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted Unit=mm
Pin bending $\leq \text{length} \times 1\%$

Electrical Optical Characteristics Ta=25

Parameter	Symbol	White			Unit	Test Condition
		Min	Typ	Max		
Forward Voltage	V_F	---	3.20	3.60	V	IF=20mA
Luminous Intensity	I_v	4500	7770	---	mcd	IF=20mA
Chromaticity Coordinates	X	---	0.325	---		IF=20mA
	Y	---	0.335	---		IF=20mA
Reverse Leakage Current	I_R	---	---	50	μA	VR=5V
Viewing Angle	$2\theta_{1/2}$	---	30	---	Deg	IF=20mA

Absolute Maximum Parameters Ta=25

Parameter	Symbol	Condition	Rating	Unit
Power Dissipation	P_D	---	120	mW
Reverse Voltage	V_R	---	5	V
Forward Average Current	I_F	---	30	mA
Temperature Coefficient	I/C	---	0.4	mA/ °C
Pulse Current	IFP	Duty=1/10,1kHz	100	mA
Operating Temperature Range	Topr	---	-25 +85	
Storage Temperature Range	Tstg	---	-30 +100	
Soldering Condition	Tsd	---	260 /5sec	

NOTE:

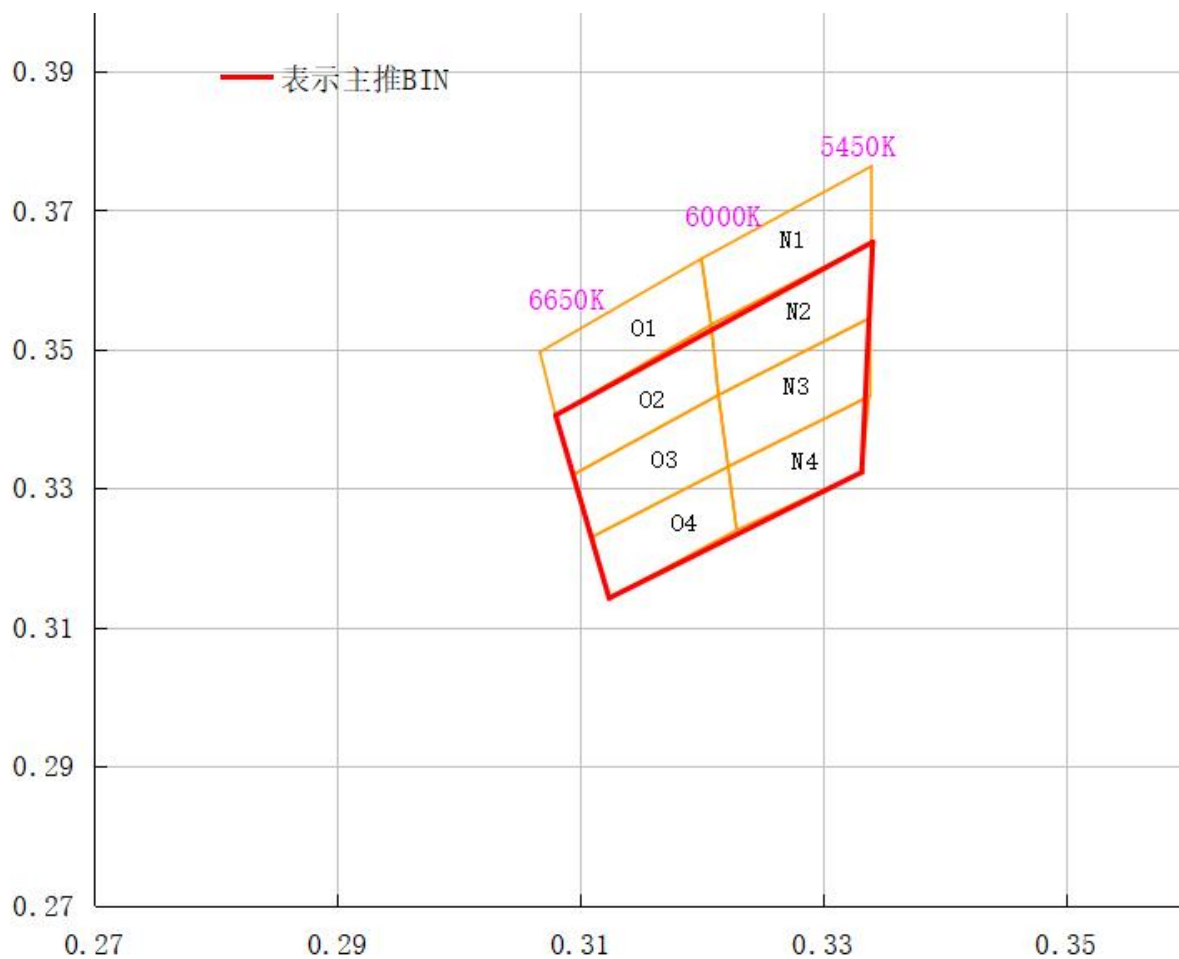
Luminous Intensity Measurement allowance is $\pm 10\%$.

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

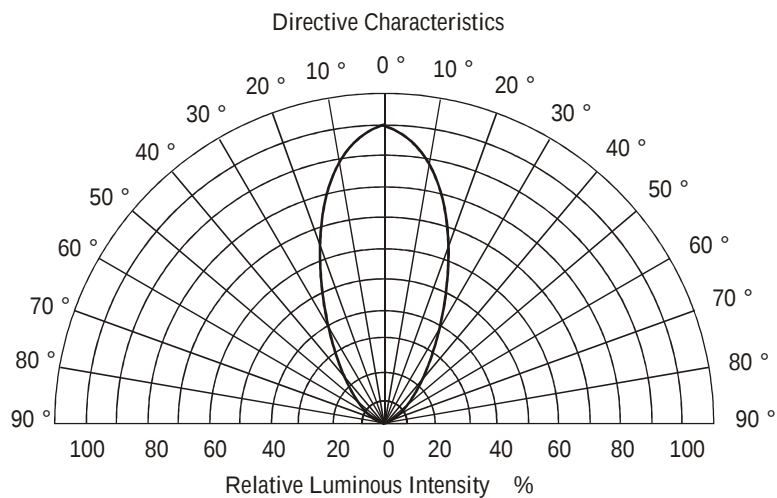
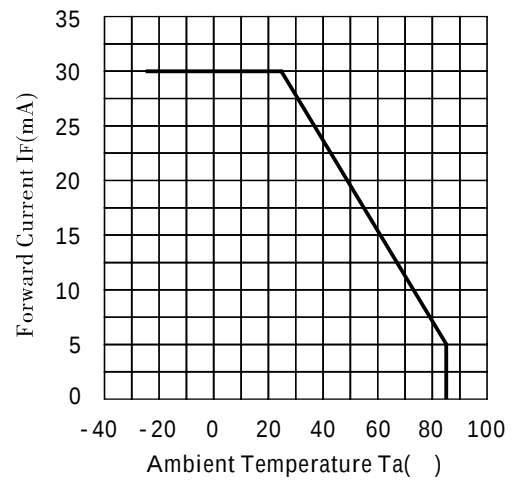
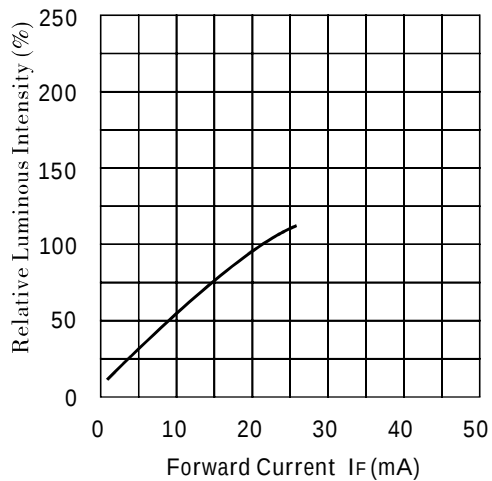
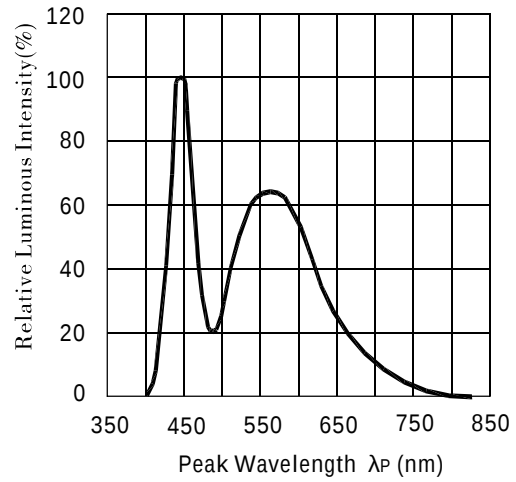
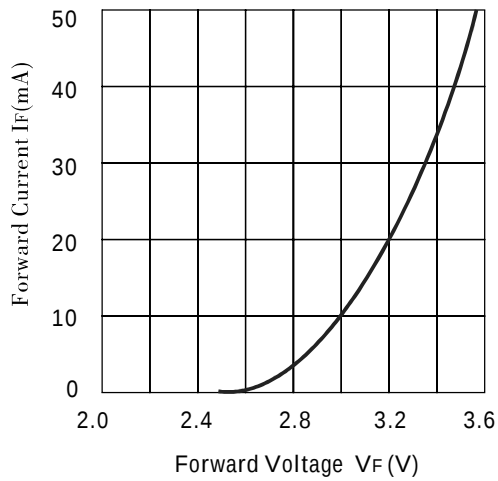
The dominant wavelength is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

Chromaticity Bin (Ta=25°C)

O2		O3		O4		N2		N3		N4	
X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
0.308	0.3405	0.3095	0.332	0.311	0.323	0.3208	0.3535	0.3214	0.3434	0.3222	0.3331
0.3208	0.3535	0.3214	0.3434	0.3222	0.3331	0.3341	0.3654	0.3339	0.3545	0.3338	0.3432
0.3214	0.3434	0.3222	0.3331	0.3229	0.324	0.3339	0.3545	0.3338	0.3432	0.3332	0.3323
0.3095	0.332	0.311	0.323	0.3124	0.3142	0.3214	0.3434	0.3222	0.3331	0.3229	0.324
0.308	0.3405	0.3095	0.332	0.311	0.323	0.3208	0.3535	0.3214	0.3434	0.3222	0.3331



Typical Electro/Optical Characteristic Curves $T_a=25$



Reliability Test Conditions

Test Item	Test Condition	Result	Judgment Criteria
Consecutive operating life test	IF=20mA, T=25 , t=168h	0/100	Forward Voltage VF(V)= Upper Limit × 1.2 Reverse Leakage Current IR(μA)=Upper Limit × 2.0 Luminous Intensity IV (mcd)=Lower Limit × 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	

Package

Item	Inner packaging bag	Inner packaging box
Material	Antistatic bag	Single corrugated box
Quantity	1000PCS	Single corrugated box × 10 =10000PCS
Marking	Label Marking Type Quantity	Certificate of conformity Marking Product name Type Quantity Date of manufacture
Size	16 × 16(cm)	30 × 19 × 11.5(cm)