

SPECIFICATION FOR COTCO LED LAMP

MODEL No : LC369MBL1-15Q-A
DOC. No : C 02Aug04

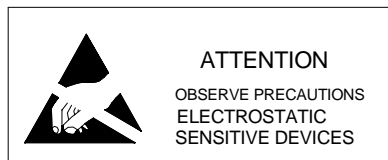
Description:

15 Degree 3mm LED Lamp in Blue Color with
Water Transparent Lens and No Stopper

Dice Material: InGaN

Confirmed
by Customer: _____

Date: _____



COTCO LUMINANT DEVICE (HUIZHOU) LTD.

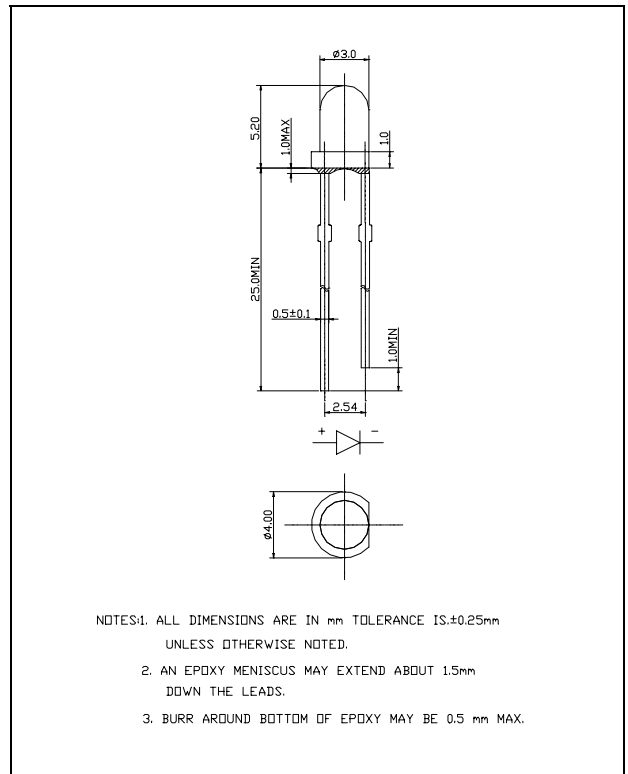
Applications:

- Advertising Signs
- Indicators

Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	I_F	25	mA
Peak Forward Current*	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	105	mW
Operation Temperature	T_{opr}	-40 ~ +95	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	Max.260°C for 3 sec Max. (3mm from the base of the epoxy bulb)	

Dimension Drawing



*pulse width <=0.1msec duty <=1/10

Typical Electrical & Optical Characteristics (Ta = 25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	---	3.6	4.2	V
Reverse Current	I_R	$V_R = 5\text{V}$	---	---	100	μA
Dominant Wavelength	λ_D	$I_F = 20\text{mA}$	460	470	480	nm
Luminous Intensity	I_V	$I_F = 20\text{mA}$	280	550	---	mcd
50% Power Angle	20½H-H	$I_F = 20\text{mA}$	---	15	---	deg

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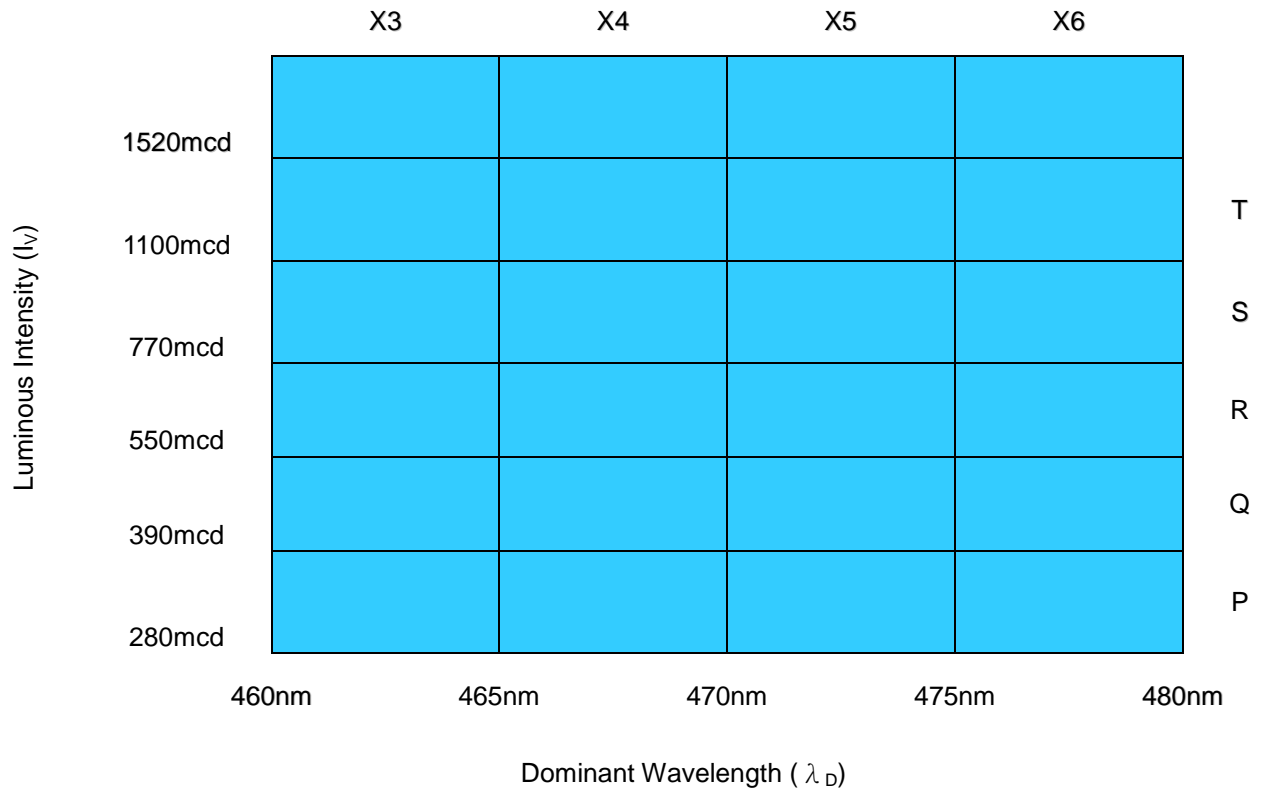
Standard bins for LC369MBL1-15Q-A ($I_F = 20mA$):

Lamps are sorted to Luminous Intensity – I_V & Dominant Wavelength – λ_D bins shown.

Orders for LC369MBL1-15Q-A may be filled with any or all bins contained as below.

All Luminous Intensity – I_V & Dominant Wavelength – λ_D values shown and specified are at $I_F=20mA$.

* **P+**



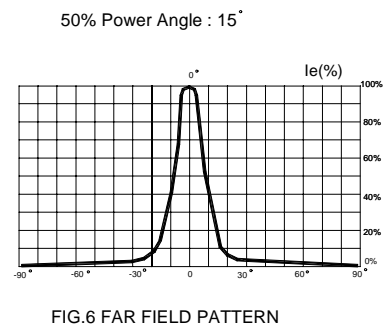
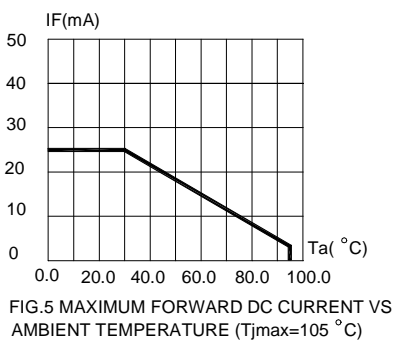
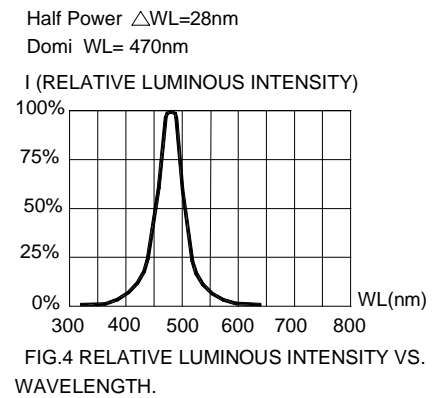
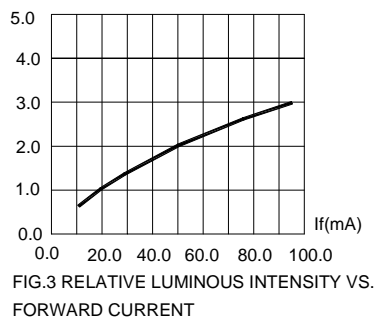
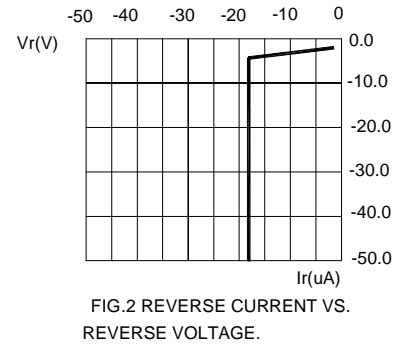
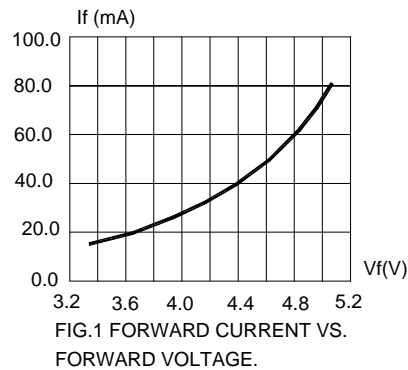
* P+ indicates Luminous Intensity is at P bin or above.

Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by Cotco.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is $\pm 15\%$.
- 4) Tolerance of measurement of dominant wavelength is $\pm 1nm$.
- 5) Tolerance of measurement of Vf is $\pm 0.05 V$.
- 6) Packaging methods are available for selection, Please refer to PACKAGING STANDARD.
- 7) Please refer to LED LAMP RELIABILITY TEST STANDARD for reliability test conditions.

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Graphs



Items	Signatures	Date	Revision History	
Prepared by	LiuZM	2004/08/02	DOC. No.	CHANGE DESCRIPTION
Checked by	ZouGR	2004/08/02	B 28May04	Iv from PQRS to PQRST .
Approved by	David	2004/08/02	C 02Aug04	Change T_{opr} & T_{stg} ; Change FIG.1&3&5; Change IV & λ_D Rank form.
ECN#	ECN-H20040190			

Data is subject to change without prior notice.

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Obsoletes Doc: B 28May04.