

Model. No.	FYL-48D2UWC1C
Rev.	A

# PRODUCT SPECIFICATION

## Model No.: FYL-48D2UWC1C

Descriptions:
■ Dice material: InGaN.
■ Emitting Color: Super bright White.
■ Device Outline: $\Phi$ 4.8mm helmet type.
■ Lens Type: Water clear.



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

**NINGBO FORYARD OPTOELECTRONICS CO.,LTD.**

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■ Absolute maximum ratings( $T_a=25\text{ }^\circ\text{C}$ )

Parameter	MAX.	Unit
Power Dissipation	90	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	25	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature[4mm(.157") From Body]	260°C for 5 Seconds	

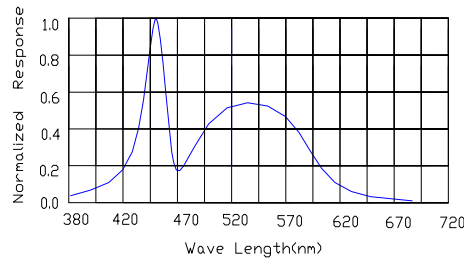
■ Electrical and optical characteristics( $T_a=25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_v$	-	2000	-	mcd	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$	-	100	-	Deg	
Chromaticity coordinates	X	-	0.29	-		
	Y	-	0.30	-		
Color temperature	CCT	-	9500	-	K	
Forward Voltage	$V_F$	2.8	3.2	3.6	V	
Reverse Current	$I_R$			10	$\mu\text{A}$	$V_R=5\text{V}$

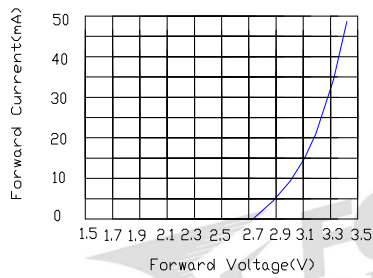
## ■ Typical Electrical Characteristics Curves

(25 °c Ambient Temperature Unless Otherwise Noted)

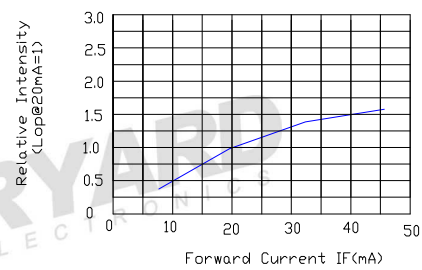
Spectral Reduance



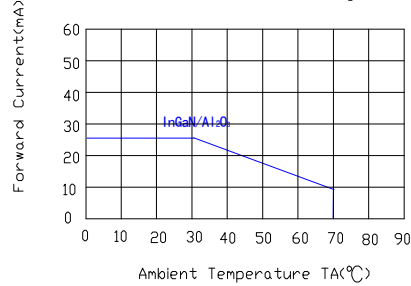
Forward Current Vs Forward Voltage



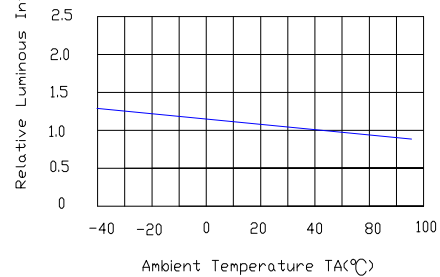
Relative Luminous intensity vs Forward current



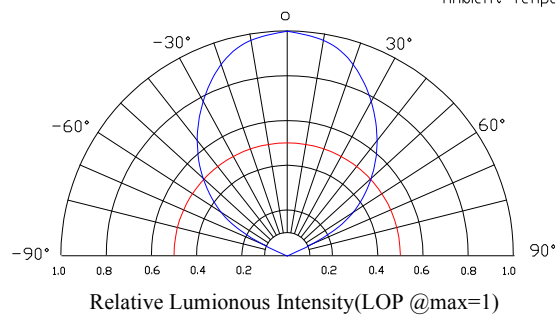
Forward Current Derating Curve



Luminous Intensity Vs. Ambient Temperature

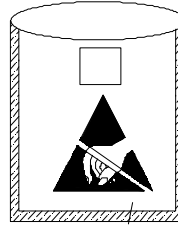


## Radiation pattern.

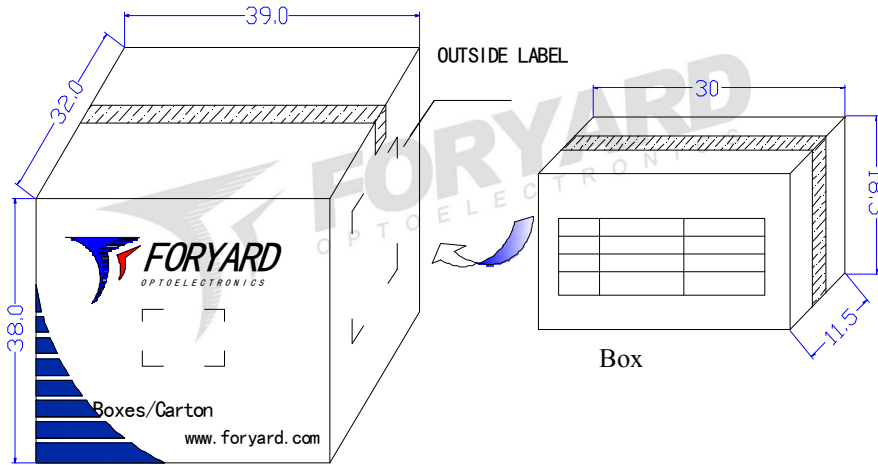
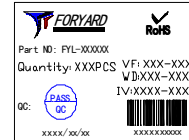


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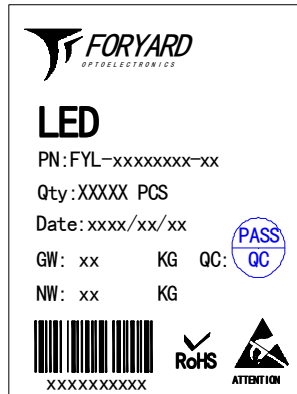
■ LAMP PACKING.



Polybag



6Boxes/ Carton



OUTSIDE LABEL