

YOLight™ Ultra Bright White LED Lamp YZ-WG 5 series

Y	Z	-	W	G	5	N	30
Yolight	Product Code		Color	Color Note	Size	Shape	Angle 2θ ½
			White	Golden	5 mm	Normal	30°

FEATURES

- Highly Luminous Ultra Bright
- InGaN Technology Chip
- YAG Phosphor
- Super Luminous Intensity 3500 mcd
- High Luminous Flux 2.4 lm
- Extremely Uniform White Light
- Golden Paint Resin Package
- 5mm Resin Mold with 3mm size option
- Shape Options with Normal or Sharp
- Wide Viewing Angles 15°, 30°
- Stand-Off Options

BENEFITS

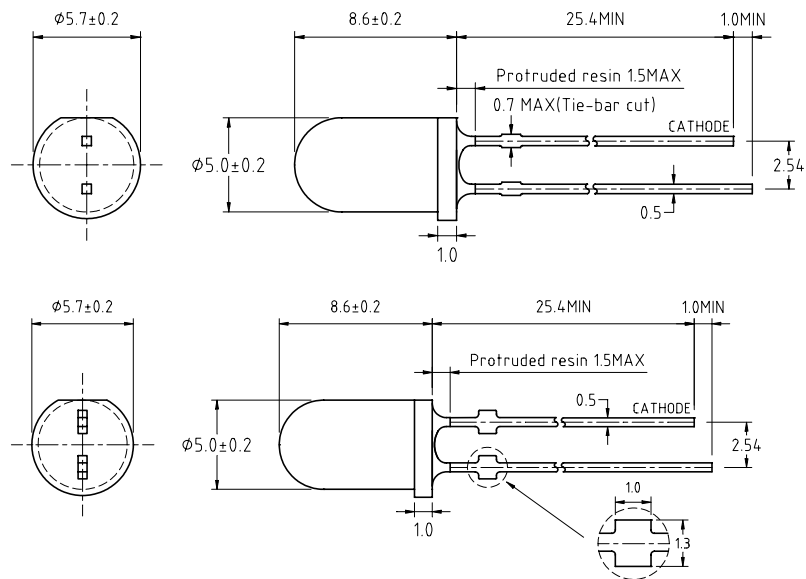
- Low Energy Consumptions
- Low Maintenance Costs
- High Application Design Flexibility
- High Reliability
- Prompt Shipment
- Very Competitive prices

APPLICATIONS

- Model Railroad and Auto Headlights
- Torch / Miniature Flash Lights
- Garden Lights
- Microscope Illuminators (Ring Lights)
- Electronic Displays and Signals
- Legend Back Lights
- Optical Indicator Lights
- Display / Decoration Lights

- Cavity Lights/ Effect Lights
- Desk Lamp Lights
- Channel Letter Lights
- Lantern Lights

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance ± 0.25 (0.01") mm unless otherwise noted.
3. Protruded resin under flange is 1.0mm (0.04") max.
4. Lead spacing is measured where the leads emerge from the package
5. Specifications are subject to change without prior notice.

Delivery

- Bulk, 500 pieces per bag standard
- Ammo or Reel are available upon request

CAUTION: YZ-WG 5 series LEDs are *Class 1 ESD* sensitive. Static Electricity and surge damage the LEDs. It is recommended to use a wristband or anti-electrostatic glove when handling LEDs. All devices, equipment and machinery must be properly grounded.

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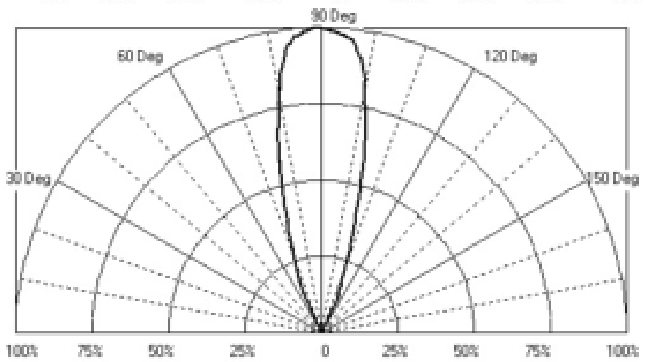
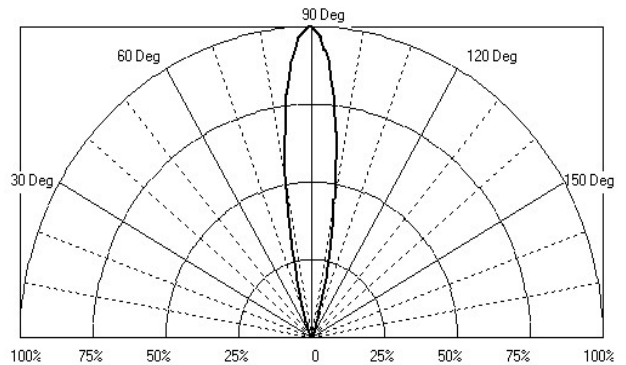
Absolute Maximum Ratings at Ta = 25°C

Forward Voltage	V _f	3.2 ± 0.3 V
Continuous Forward Current	I _f	30 mA
Power Dissipation	P _d	120 mW
Peak Forward Current	I _{fp}	150 mA
Derating Factor		0.40 mA/ °C
Reverse Voltage	V _r	5 V
Operating Temperature	T _{op}	-25 ~ +85°C
Storage Temperature	T _{stg}	-35 ~ +100°C
Soldering Temperature	T _{sd}	260°C / 5 Sec

Typical Electrical / Optical

Characteristics Curves at Ta = 25°C

Beam Pattern



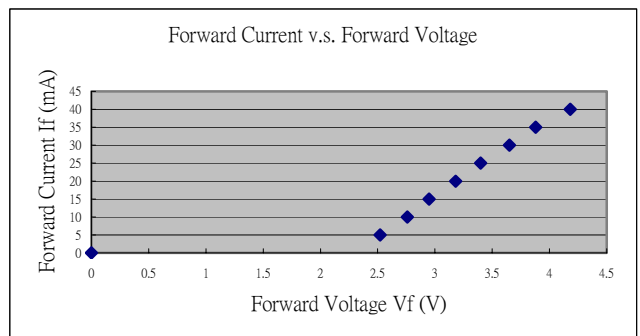
Luminous Intensity I_v at I_f = 20 mA

Type	Rank R			Rank S		
	Unit: mcd	Min.	Typ.	Max/Min.	Typ	Max
YZ-WG5N15	2850	3250	3800	4460	5250	
YZ-WG5N30	1200	1500	2400	2800	3500	

Notes: Viewing Angle 40° with Normal Lens Shape

Luminous Flux Φ_v at I_f = 20 mA

Type	Rank R			Rank S		
	Unit: lm	Min.	Typ.	Max/Min.	Typ	Max
YZ-WG5N15	1.8	2.0	2.2	2.4	2.6	
YZ-WG5N30	1.8	2.0	2.2	2.4	2.6	





YOLight™ Ultra Bright White LED Lamp

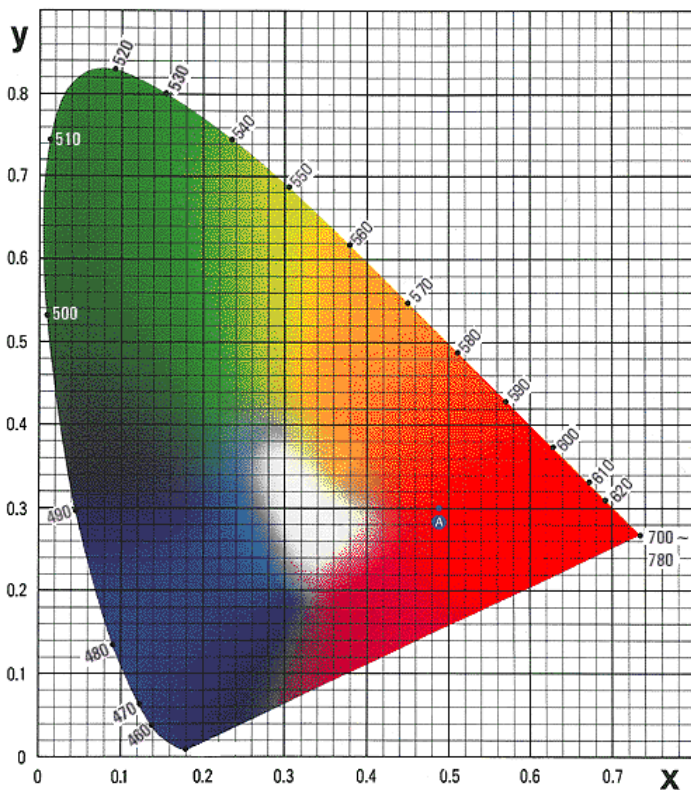
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Golden White Color Coordinates

X	0.462	0.489	0.512	0.481
Y	0.433	0.423	0.447	0.473

ICI Chromaticity Diagram



Notes:

1. The luminous intensity is measured by the CIE 1931 eye-response method with Tolerance $\pm 15\%$.
2. The chromaticity coordinates are derived from the CIE 1931 chromaticity diagram and represent the perceived colors of the device.
3. Color Note: Golden White
4. Lens Size:
5: 5mm standard / 3: 3mm Option
5. Lens Shape:
N: Normal Shape / S: Sharp Shape
6. Angle 2θ ½:
15: $15^\circ \pm 3^\circ$ / 30: $30^\circ \pm 3^\circ$
7. Stand Off:
N: No Stand-Off / Y: With Stand-Off

Note: All data showing in this product specification are measured by proper experiment conditions and instruments. However, those data may be different due to variations of testing instruments and conditions.