



VISIBLE

# Golden DRAGON®

## Exceptional lifetime performance

OSRAM Opto Semiconductors' Golden DRAGON® products are leading performers in the LED universe. And now the star shines even brighter: The new Golden DRAGON® uses the latest Thinfilm/ThinGaN® technologies. Besides delivering the maximum possible light from the smallest of sources, this high-performance LED has an exceptionally long lifetime, giving designers and developers the means to take illumination into completely new dimensions.



Opto Semiconductors

**OSRAM**

## Golden DRAGON®



Golden DRAGON®.

Daytime running light.

Room lighting.

Golden DRAGON® Thinfilm/ThinGaN®				Golden DRAGON®			
Type	Color	Wavelength	Typ. Output/Current	Type	Color	Wavelength	Typ. Output/Current
LR W5SM	Red	625 nm	43 lm @ 400 mA	LA W57B	Amber	617 nm	18 lm @ 400 mA
LA W5SM	Amber	617 nm	53 lm @ 400 mA	LY W57B	Yellow	587 nm	18 lm @ 400 mA
LY W5SM	Yellow	590 nm	44 lm @ 400 mA	LT W5SG	True Green	528 nm	33 lm @ 350 mA
LT W5SM	True Green	528 nm	45 lm @ 350 mA	LV W5SG	Verde	505 nm	27 lm @ 350 mA
LB W5SM	Blue	470 nm	14 lm @ 350 mA	LB W5SG	Blue	470 nm	8 lm @ 350 mA
ZW W5SG	White	x/y 0.32/0.31*	45 lm @ 350 mA	LW W5SG	White	x/y 0.32/0.31*	30 lm @ 350 mA
LW W5SM	White	x/y 0.32/0.31*	45 lm @ 350 mA	LCW W5SG	Warm White	x/y 0.42/0.40*	23 lm @ 350 mA
LCW W5SM	Warm White	x/y 0.42/0.40*	32 lm @ 350 mA				

\* Color coordinates acc. to CIE 1931

### Advantages

#### A new dimension of brightness

Dazzling bright white light with typical 45 lm @ 350 mA is emitted from a tiny surface.

#### High reliability

The Golden DRAGON® is characterized by a long lifetime of up to 50,000 hours, due to excellent thermal design and silicone encapsulation.

#### Flexible applications

The availability of the complete color portfolio and integrated and external optics as well as the extraordinary brightness open up new possibilities for almost any lighting application.

### Features

- High performance LED emitting maximum light from the smallest possible source
- Power LED: Only 1.8 mm height
- Low thermal resistance
- Meets the quality requirements of the automotive industry
- Complete color portfolio available: Red (625 nm), amber (617 nm), yellow, true green, verde, blue, white, warm white
- Can be processed using standard soldering techniques
- Lead (Pb) free – RoHS compliant

### Applications

#### Illumination & signs

- Architectural lighting and room lighting

- Design and effect illumination
- Illuminated advertising
- Emergency lighting
- Signs, channel letters
- Traffic lights
- Replacement of conventional light bulbs

#### Automotive

- Exterior: Daytime running light, fog light, front turn indicator
- Interior: Dome light

#### Communication

- Strobe light for mobile phones and digital cameras

#### Golden DRAGON® on Internet:

[www.osram-os.com/goldendragon/](http://www.osram-os.com/goldendragon/)

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