



Golden DRAGON® ARGUS®

Outstanding backlighting performance

OSRAM Opto Semiconductors' Golden DRAGON® products are leading performers in the LED universe. And now there's a new star – the Golden DRAGON® ARGUS®. Besides delivering the maximum possible light from the smallest of sources, this high-performance LED has an exceptionally long lifetime and is optimized to give you perfect backlighting in large screen applications.



Opto Semiconductors

OSRAM

Golden DRAGON® ARGUS®



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102" LCD backlight.



Architectural lighting.

Golden DRAGON® ARGUS®			
Type	Color	Wavelength	Typ. Output/Current
LR W5KM	red	625 nm	50 lm @ 400 mA
LY W5KM	yellow	590 nm	50 lm @ 400 mA
LT W5KM	true green	528 nm	72 lm @ 350 mA
LB W5KM	blue	470 nm	24 lm @ 350 mA
LD W5KM	deep blue	455 nm	350 mW @ 350 mA
LW W5KM	white	x/y 0.33/0.33*	71 lm @ 350 mA
LUW W5KM	ultra white	x/y 0.31/0.32*	86 lm @ 350 mA
LCW W5KM	warm white	x/y 0.42/0.40*	52 lm @ 350 mA

*Color Coordinates acc. to CIE 1931

Advantages

Optimized for large screen backlighting

The wide radiation of the ARGUS® optic is optimal for large screen backlighting. Most of the light is emitted to the side, and the individual control of each color enables you to achieve a perfect mixture of red, green and blue as well as an adjustable white point.

The lower voltage at DC compared with cold cathode fluorescent lamps (CCFL) results in lower electromagnetic influence (EMI).

Pulsed operation

With fast switching times of less than 100 ns, sequential coloring is possible. Furthermore, pulsed operations reduce blurring effects and provide unlimited dimming.

Asia

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Slim designs

Flat LC-Display designs can be realized due to the low package height of less than 4 mm.

High freedom of design

The additive mixture of red, green and blue light enables individual backlighting of transparent surfaces in any color. Moreover, more than 90 % brightness homogeneity can be achieved.

Features

- Available in red, yellow, true green, blue, deep blue, white, ultra white and warm white.
- High luminous efficiency due to latest chip technology ThinFilm/ThinGaN®

Europe

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- Large color range of more than 105 % NTSC (standard of the National Television System Committees)
- Temperature range from -40 °C to +85 °C
- Long lifetime > 50,000 hours
- Mercury and lead (Pb) free – RoHS compliant

Applications

Consumer

- Backlighting of large area LCDs
- Backlighting of LCD-TV

General lighting

- Backlighting of channel letters
- Architectural illumination
- Architectural mood lighting
- Illuminated color panels

Golden DRAGON® on Internet:

www.osram-os.com/goldendragon/

USA

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