



Light is brilliant

SOLERIQ[®] S family

Superior light quality with Brilliant White and Brilliant Color solutions

Light is OSRAM

OSRAM
Opto Semiconductors

Brilliant new opportunities

SOLERIQ® S is OSRAM Opto Semiconductors' state-of-the-art easy to use Chip-on-Board family specifically designed for spotlight applications. The new Brilliant White and Brilliant Color versions extend the COB portfolio by offering superior light quality solutions. In addition to the well known SOLERIQ® S 13 and S 19, the new SOLERIQ® S 9 complements the portfolio with a compact sized COB.

SOLERIQ® S 9, S 13, S 19

Full portfolio, strong performance, superb color quality

SOLERIQ® S are specifically designed for applications requiring large flux packages out of a compact light emitting area. With a comprehensive list of accessories ranging from connectors to lenses and reflectors, SOLERIQ® S is easy for lighting manufacturers to use. With various light emitting surfaces (LES) the SOLERIQ® platform increases the design flexibility supports the LED interchangeability and even enables Zhaga standard designs for LES 13 and 19.

SOLERIQ® S Brilliant White and Brilliant Color

The SOLERIQ® S Brilliant White range offers pure, clean and clear white light, free of greenish or yellowish tints – white just appears whiter. The SOLERIQ® S Brilliant Color range offers the same appearance of natural white and also enhances the appearance of colored objects – with more saturated and distinct colors, better color discrimination and clearness, an effect well known from HID lamps.

Superb Color Consistency with TEN° binning

SOLERIQ® S featuring TEN° binning offers unprecedented color consistency! TEN° binning addresses color consistency by adding a more representative CIE 2015 10° Observer Color Binning Scheme to the industry standard CIE 1931 2° color space. This breakthrough is necessary to cater for the typical general lighting applications where color consistency is judged under a 10° field of view rather than a 2°.

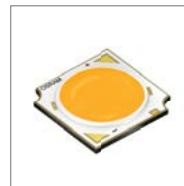
General Features

- High luminous flux and energy efficacy out of one single LED package
- Higher lm/\$ compared to ceramic based packages
- Uniform illumination without multi shadows
- Color consistency within 3-step-MacAdam and TEN°
- Easy-to-use metal core board and easy to install with off-the-shelf solderless connectors and lenses
- Stable brightness over lifetime
- Viewing angle at 50 % Iv: 120°
- High flexibility due to same footprint in each LES range

Applications

- Professional spot light, e.g. in shops or museums
- High end homelighting, e.g. spot lights or down lights
- Outdoor lighting

SOLERIQ® S Portfolio Overview

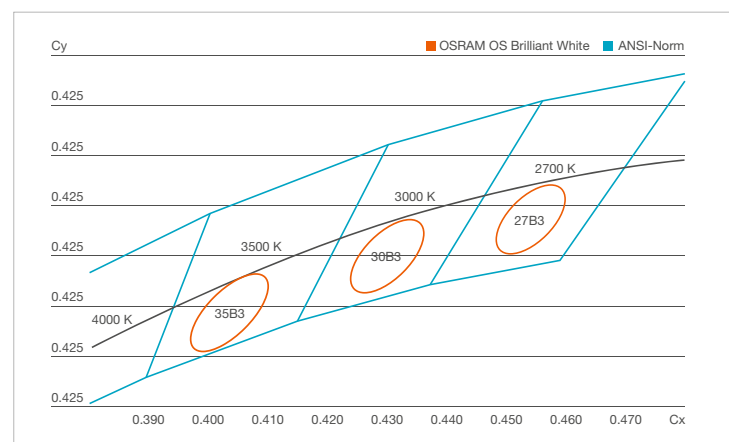


SOLERIQ® S 9

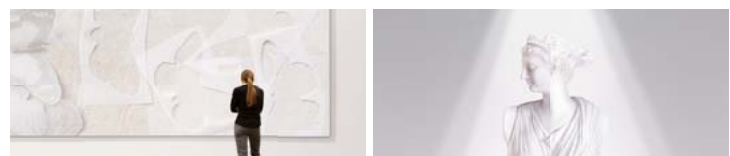
- Package size of 13.5 mm × 13.5 mm × 1.4 mm
- Light emitting surface of (LES): Ø 9.8 mm,
- Excellent color reproduction with CRI min. 80, 90
- Full range of color temperatures: 2,700 K – 6,500 K
- Available in various power classes (7.0 W, 10.5 W, 14 W)

Typ. Voltage	36 V			
CRI	80	90	Brilliant White	Brilliant Color
7 W	GW KAFGB3.EM	GW KAFGB3.CM	GW KAFGB3.CM	GW KAFGB3.DM
10.5 W	GW KAFHB3.EM	GW KAFHB3.CM		
14 W	GW KAFJB3.EM	GW KAFJB3.CM	GW KAFJB3.CM	GW KAFJB3.DM
17.5 W				
21 W				
24.5 W				
53 W				

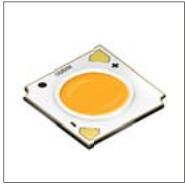
Brilliant White



Museums and Shops



at a Glance – Power Ratings and CRI



SOLERIQ® S 13

- Package size of 19.0 mm × 19.0 mm × 1.4 mm
- Light emitting surface of (LES): Ø 13.5 mm, enables Zhaga standard design
- Excellent color reproduction with CRI min. 70, 80, 90
- Full range of color temperatures: 2,700 K – 6,500 K
- Available in various power classes (7.0 W, 10.5 W, 17.5 W, 21 W, 24.5 W)

36 V				
70	80	90	Brilliant White	Brilliant Color
	GW KAGGB3.EM*	GW KAGGB3.CM		
	GW KAGHB3.EM*	GW KAGHB3.CM		
	GW KAGJB3.EM*	GW KAGJB3.CM	GW KAGJB3.CM	GW KAGJB3.DM
GW KAGLB3.PM	GW KAGLB3.EM*	GW KAGLB3.CM	GW KAGLB3.CM	GW KAGLB3.DM
GW KAGMB3.PM	GW KAGMB3.EM*	GW KAGMB3.CM	GW KAGMB3.CM	GW KAGMB3.DM

* with TEN° binning

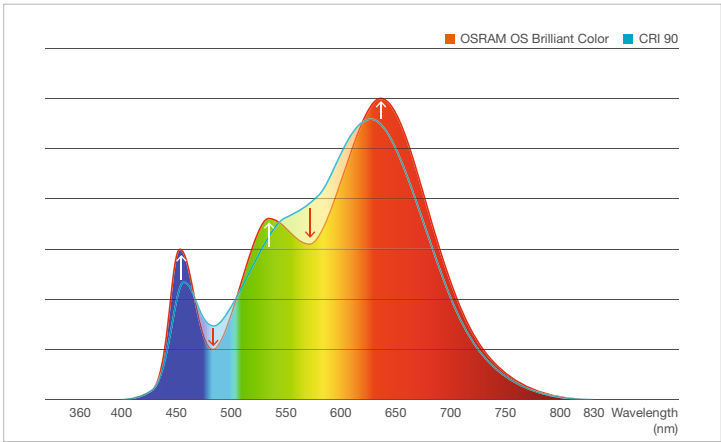


SOLERIQ® S 19

- Package size of 24.0 mm × 24.0 mm × 1.4 mm
- Light emitting surface of (LES): Ø 19.0 mm, enables Zhaga standard design
- Excellent color reproduction with CRI min. 70, 80, 90
- Full range of color temperatures: 2,700 K – 6,500 K
- Available in various power classes (24.5 W, 53 W)

36 V				
70	80	90	Brilliant White	Brilliant Color
GW KAHLB2.PM	GW KAHLB2.EM	GW KAHLB2.CM	GW KAHLB2.CM	GW KAHLB2.DM
GW KAHQB2.PM	GW KAHQB2.EM			

Brilliant Color



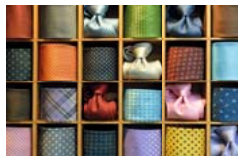
Special Colors Food Stores and Restaurants



Supermarkets



Shops



High-end Retail





SOLERIQ® S on the Internet:
www.osram-os.com/solერიq-s

For further information on the available products please visit our product catalog at <http://catalog.osram-os.com>

More information about LED in General Lighting:

LED Light Site

ledlight.osram-os.com

LED Light for you Network

www.ledlightforyou.com



Asia

OSRAM Opto Semiconductors (China) Co., Ltd.
29/F., Harbour Ring Plaza,
No.18 Xizang (M.) Road,
Shanghai
P.R China 200001
Phone: +86 21 5385 2669
Fax: +86 21 5385 2868
E-mail: prasia@osram-os.com

Europe

OSRAM Opto Semiconductors GmbH
Leibnizstraße 4
D-93055 Regensburg, Germany
Phone: +49 941 850 1700
Fax: +49 941 850 3302
E-mail: support@osram-os.com

USA

OSRAM Opto Semiconductors Inc.
1150 Kifer Road, Suite 100
Sunnyvale, CA 94086, USA
Main Phone number: (408) 962-3700
Main Fax: (408) 738-9120
Inbound Toll Free: (866) 993-5211
E-mail: info@osram-os.com