Light is prestigious

SOLERIQ® P 9

More light and high efficacy from small LES

Light is OSRAM

OSRAM
Opto Semiconductors

Less LES, more light

SOLERIQ® P 9 complements OSRAM Opto Semiconductors' innovative SOLERIQ® range. The new LEDs are optimized for cd/W driven applications, easy to use with Chip-on-Board design and no SMT assembly required. A very small light emitting surface (LES) enables easy optics design, sharp shadows and sparkle appearance.

Advantages

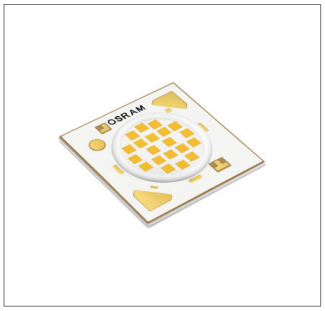
Great reliability – small form factor

To make system designs easy, the SOLERIQ® P 9 has only a single flux and color bin and is specified at 85 °C to mimic the temperatures typically found in directional applications. The small light emitting surface of only 9 mm diameter enables system designs with very small optics and world class center beam candlepower (CBCP). Hence only one SOLERIQ® P 9 can replace a traditional 35 W HID lamp while maintaining a compact form factor.

Features

SOLERIQ-Family

- High luminous flux out of the single LED package
- Higher lm/$ compared to ceramic based packages
- Uniform illumination without multi shadows due to uniform light emitting surface
- Color consistency within 3-step MacAdam
- Easy-to-use metal core board
- Easy mounting without SMD soldering: gluing, screws or brackets
- Easy to install with off-the-shelf solderless connectors and lenses
- Stable brightness over lifetime
- High energy efficacy



Features

SOLERIQ® P 9

- Viewing angle at 50 % Iv: 120°
- Package size of 15 mm × 15 mm × 1.5 mm
- Light emitting surface of (LES): Ø 9.0 mm
- Excellent color reproduction with CRI min. 90 and CRI min. 80
- Full range of color temperatures: 2700 K – 4000 K (CRI min. 90) and 2700 K – 5000 K (CRI min. 80)
- Luminous flux: typ. 1600 lm @ 3000K, 85° C (CRI min. 90)
- Luminous efficacy: typ. 80 lm/W @ 3000 K, 85° C (CRI min. 90)
- Luminous flux: typ. 2000 lm @ 3000 K, 85° C (CRI min. 80)
- Luminous efficacy: typ. 100 lm/W @ 3000 K, 85° C (CRI min. 80)

Applications

Designed for cd/W driven applications, SOLERIQ® P 9 is perfectly suitable for indoor general lighting and especially spotlight solutions – in commercial, but also residential applications.

- Spot lights
- Shop lighting
- Museum lighting

Mechanical Interface
Includes shape, dimensions, socket

Thermal Interface
Define how cooling elements mate to the module's thermal surface

Electrical Interface
AC or DC, insulation, grounding, controls

LED light engine

Photometric Interface
Size of the light emitting surface, distribution pattern, uniformity of light on the task plane, light color, lumen output

Making LED light sources interchangeable: Zhaga

Interchangeable LED light sources are essential for the entire lighting industry. Zhaga specifications benefit manufacturers, distributors, specifiers and end-users of lighting products.

- Zhaga aims to make LED light sources from multiple manufacturers interchangeable
- Zhaga uses the term "LED light engine" to describe the combination of an LED module and its associated electronic control gear
- Zhaga establishes specifications for four key interfaces of an LED light engine: mechanical, thermal, electrical and photometric

SOLERIQ® P 9

Type	Color	CCT	Typ. CRI	Typ. Luminous Flux @ 700 mA & Ts = 25° C	Typ. Luminous Flux @ 700 mA & Ts = 85° C
GW MAFJB1.CM	warm white	2700 K	95	1650	1570
GW MAFJB1.CM	warm white	3000 K	95	1830	1730
GW MAFJB1.CM	warm white	3500 K	95	1890	1790
GW MAFJB1.CM	neutral white	4000 K	95	1960	1850
GW MAFJB1.EM	warm white	2700 K	82	2050	1940
GW MAFJB1.EM	warm white	3000 K	82	2150	2040
GW MAFJB1.EM	warm white	3500 K	82	2300	2170
GW MAFJB1.EM	neutral white	4000 K	82	2430	2300
GW MAFJB1.EM	neutral white	5000 K	82	2410	2280

SOLERIQ® P on the Internet:
http://osram-os.com/soleriq-p

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

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