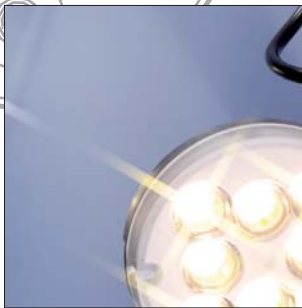


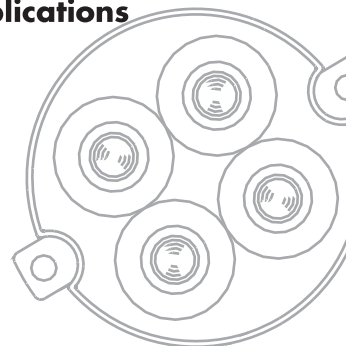


A New Lighting Experience



Brilliant Light: VS-P3

**White LED Modules
for General Lighting Applications**



White equals White

The general lighting market has been revolutionised by an innovative range of LED modules designed to meet the requirements of luminaire manufacturers and lighting designers with regard to the quality of white light.

These so-called VS-P3 modules are available from Vossloh-Schwabe in spotlight and downlight versions.

Narrowly Defined Colour Bins

The new technological design of the modules makes countless different chromaticity locations – so-called binnings – a thing of the past and instead produces two narrowly defined cool white and warm white colour bins. The average human eye cannot discern any colour differences within these chromaticity locations.

High Colour Rendition

In addition to this, the VS-P3 modules are characterised by a high colour rendering index of $Ra > 90$ as well as very positive thermal properties. Due to the use of red, green and yellow phosphorous blends, a colour spectrum is achieved that differs from that produced by typical white LEDs.

Depending upon the specific blend of the additional red and green elements it is possible to generate either cool white or warm white light that is very pleasant for the human eye and ensures virtually true-to-life colour rendering. In addition, secondary optics precisely defines the light's radiation angle.

Reliable Luminous Flux

The new VS-P3 modules guarantee a reliable luminous flux with realistic data sheet values of typically 432 lm and a minimum of 390 lm given a usual "real-life" operating temperature of 80°C at the Al body. Furthermore, the modules can be expected to achieve a service life in excess of 40,000 hours at an Al-body temperature of 80°C.

Compact and Ready-to-Install

VS-P3 modules are produced as a compact, ready-to-install "module package" that requires no further soldering of external components such as power supply cables.

In addition, a heat sink is available for the downlight version for easy installation.



VS-P3: More than General Lighting

Due to the long service life, excellent colour rendering properties and low energy consumption (when compared to conventional lamps) of VS-P3 modules, they make an ideal choice for applications such as general, shop and display case lighting.

