



# Phosphor Information Leaflet

## GENERAL

Name	Calcium silicate europium manganese
Chemical formula	CaSiO <sub>3</sub> :Eu <sup>2+</sup> ,Mn <sup>2+</sup>
Application areas	Flicker reduction of LED lamps

## OPTICAL PROPERTIES

Excitation maxima @ 612 nm	341 nm (3.64 eV)
Emission maximum @ 365 nm exc.	620 nm (2.0 eV)
Centroid wavelength	628 nm (2.0 eV)
Full width @ half emission maximum	82 nm
Lumen equivalent	258 lm/W <sub>opt.</sub>
CIE1931 chromaticity coordinates (x, y)	0.611, 0.385
Band edge of host lattice	2.98 eV
Reflection @ 610 nm	79 %
Decay time $\tau_{1/e}$	26 ms

## PHYSICAL PROPERTIES

Body colour	white-yellowish
Density	2.91 g/cm <sup>3</sup>
Refractive index	1.6
Mineral type	wollastonite
Crystal system	monoclinic
Space group (#)	<i>P</i> 12 <sub>1</sub> / <i>n</i> 1 (14)

