



# Phosphor Information Leaflet

## GENERAL

Name	Lithium barium lanthanum molybdate europium
Chemical formula	$\text{Li}_3\text{Ba}_2\text{La}_3(\text{MoO}_4)_8:\text{Eu}^{3+}$
Application areas	Light emitting diodes

## OPTICAL PROPERTIES

Excitation maxima @	395 nm (3.14 eV), 465 nm (3.75 eV), 535 nm (2.32 eV)
Emission maximum @ 465 nm exc.	614 nm (2.0 eV)
Centroid wavelength	618 nm (2.0 eV)
Full width @ half emission maximum	Line
Lumen equivalent	307 lm/W <sub>opt.</sub>
CIE1931 chromaticity coordinates (x, y)	0.661, 0.338
Band edge of host lattice	340 nm (3.6 eV)
Reflection @ 465 nm	47 %
Luminescent Lifetime (1/e)	~0.4 ms

## PHYSICAL PROPERTIES

Body colour	Light pink
Density	-
Refractive index (at $\lambda$ )	-
Mineral type	-
Crystal system	monocline
Space group (#)	C2/c (25)

