A novel blue-emitting Eu²⁺-doped Chlorine silicate phosphor with narrow-band for illumination and displays: structure and luminescence properties

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Figure S1. XRD pattern of BSOC with different Eu²⁺ concentration



Figure S2. The DRS of BSOC host sample, the inset displays the relationship between the absorption coeffcient and the photon energy of BSOC.



Figure S3. Total and partial density of states of Ba₅SiO₄Cl₆



Figure S5. The photo of YAG WLED lamp and EL spectrum of the lamp.



Figure S6. The comparison of the emission spectra and intensity between them.