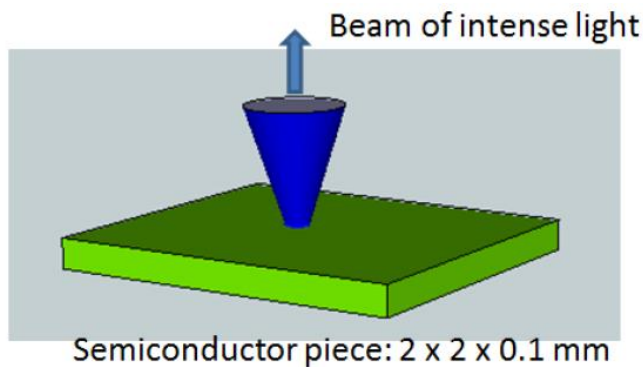


Intense UV-Blue Light Source – Innovative, Miniaturised, Low Cost

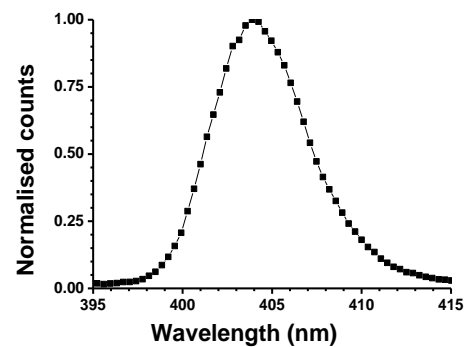
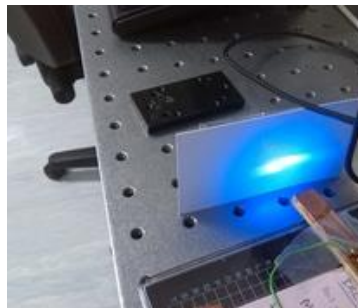
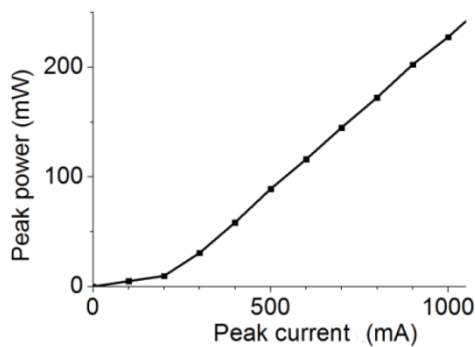
This is a surface emitting UV-blue light source for applications that require a high illumination density. It is designed for easy integration with additional filters, etc.

Technology Specifications



- ❑ Wavelength range: 400-440 nm (FWHM=9 nm)
- ❑ Output power: 100-1,000 mW
- ❑ Power density: 10-100 kW.cm⁻²
- ❑ Radiance: 10⁴ W.mm⁻².sr⁻¹
 - Important for coupling light efficiently into applications with a small étendue
- ❑ Switching speed: <1 ns
- ❑ Eye-safe (when pulsed)

Prototype Results



Applications

- ❑ Visible light communications
- ❑ Fluorescence excitation
- ❑ Pico-projectors
- ❑ Fibre-based illumination
- ❑ Solid state lighting
- ❑ Low cost alternative for laser diodes

Contact: anthony.morrissey@ucc.ie