

Luminous Intensity

Luminous intensity is the concept for the concentration of light in a specific direction, radiated per second.

It is designated by the symbol I . The unit is the candela (cd).

The luminous intensity can be defined as:

The luminous flux in a certain direction, radiated per unit of solid angle.

1 candela = 1 lumen / steradian

$$I = \frac{\Phi (lm)}{\Omega (sr)}$$

Intensity is not a function of distance

The photometrical performances of a luminaire are derived from the luminaire's measured luminous intensity distribution. These measurements of luminous intensity are carried out in specialised laboratories, using goniophotometers.

