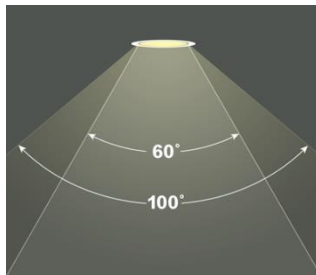


Glossary of lighting terms



Lumen

A lumen is a unit of measurement that is used to express how bright a light source is. The higher the amount of lumens, the brighter the light.



Beam angle

Beam angle refers to how broadly a light source spreads and is measured in degrees. Common beam angles are 30, 45, 60 and more recently 100 degrees.



Voltage

Voltage is the change in electric potential (per unit charge) between two positions (eg between a wire and ground). It is measured in volts.



Wattage

The operating power of a globe or control gear. It is expressed in Watts.



Dimmable

Dimmable lights can be adjusted to the right intensity so they deliver different amounts of light for different occasions. Not all LED lights are dimmable, but most quality LED lights are.



Lux

Lux is a measurement of the light intensity falling on a surface. This measurement determines the brightness of a light in a space and is dictated by Australian standards.



Colour temperature

Different light bulbs emit different coloured light. Colour temperature is measured in Kelvins (K), but is generally referred to as either warm (3000K), neutral (4000K) or cool (5000K).

Cool light aids concentration in work areas whereas warm light helps you relax and is most commonly used in homes.



Colour rendering index (CRI)

CRI (Colour Rendering Index) is a way of measuring how vibrant a light source makes colours appear. The index ranges from 0 to 100, the best being above 80. A light's CRI can only be compared to another light if they have the same colour temperature.



Rated life

The rated life is the average operational life in total number of hours and is specified by the manufacturer.



11 lm/W

50 lm/W

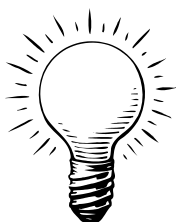
Luminous efficacy

Efficacy refers to the amount of light (lumens) produced by a light source as a ratio of the amount of power consumed to produce it (watts). In LED lighting you will see this as a lumens per watt measurement (lm/W).



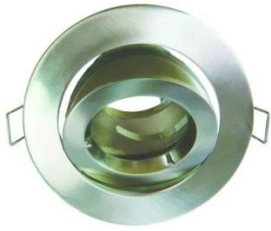
Ambient temperature

Ambient temperature refers to the temperature in a room, or the temperature surrounding an object. The ambient temperature plays a role in personal comfort, and also in the function of many types of equipment.



Luminous flux

Luminous flux is the measure of the perceived power of light, radiated in all directions. It is measured in lumens or watts.



Gimbal

A gimbal light fitting allows the direction of the light to be adjusted to a certain degree. Gimbals are useful if you need the light to be projected in a certain direction.



Heat sink technology

A heat sink is a component that cools a device by dissipating heat into the surrounding air.