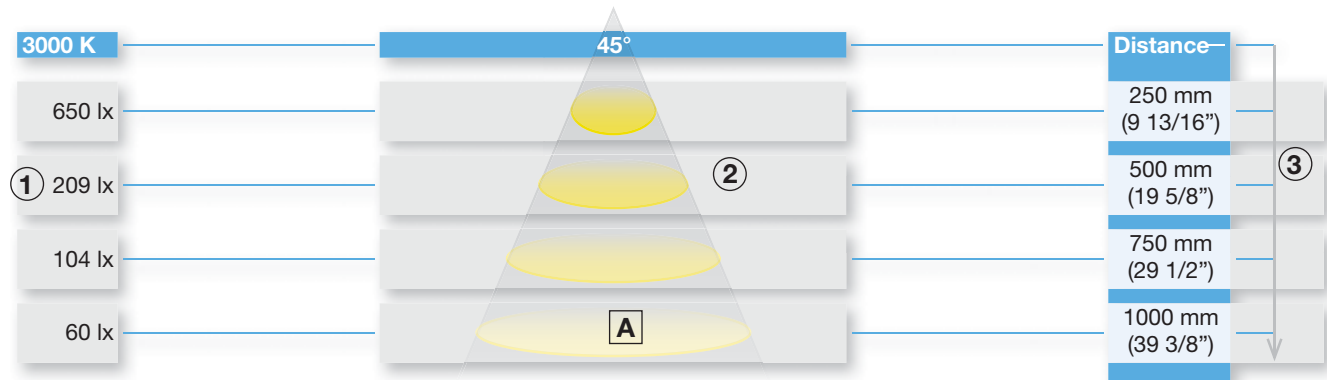


## Information and Technical Terms



### Loox



- ① The light output is noted in the left-hand column. The correlated color temperature of the light is noted in the header in Kelvin(K). The Lux(lx) values for the light appear in the lines below, depending on certain distances from the light (see column 3).
- ② The angle of illumination is marked in the center column. The angle of radiation of the light is specified in degrees (°) in the header. The lines below show the illuminated area depending on certain distances from the light (see column 3).
- ③ The right-hand column contains the distances from which the illuminated area and the associated Lux value (lx) were measured. Example of a cone of light at point A. The lamp generates light similar to a spotlight with 60 lx at a distance of 1000 mm.

### Technical terms

#### Light color/Color temperature

The light color is a specification of the color appearance of a light source and is measured in Kelvin (K). The lower the Kelvin value, the warmer the light; the higher the value, the cooler the light. Light sources below 3200 K are considered warm, while those above 4000 K are considered cool.

#### Luminous efficacy

The luminous efficacy is the indication of the illuminance in relation to a surface and its distance. It is indicated in Lux (lx).

#### Light output

The light output determines the luminous intensity or quantity of light. It is indicated in Lumens (lm).

#### Color rendering index

The color rendering index is a parameter that can be used to compare the color rendering quality of light sources at the same color temperature.

### Comparison of lighting systems

Light output	Wattage in W	Light output in lm/W	Color rendering index R <sub>a</sub>
Halogen 12v	10–20	27–28	60–95
Fluorescent lamp*	8–58	80–110	50–90
LED	0.8–4.8	30–90	70–95

\* with electric ballast

Dimensional data not binding. We reserve the right to alter specifications without notice.

Dimensions in mm  
Inches are approximate

# The ABC's of Lighting Technology

LEDs (Light Emitting Diodes) can vary the properties of the light that is generated in almost the entire color spectrum. Unlike regular light bulbs and halogen lamps, LED lights radiate very little heat, resulting in less energy use and a long service life.

## Advantages of LED's

### Longer Lasting

LED lights have an extremely long service life of up to 25 years or more than 40,000 to 50,000 hours.

### Energy Saving

LED lights use an impressive 90 percent less power than conventional light bulbs! This means that they can be used to implement modern lighting scenarios in furniture, and still be in line with the energy saving trend.

### Insensitive

LED's have an extremely small and robust design. This makes handling easier during furniture construction and transport.

### Powerful

Modern LED lights are bright and have a saturated light color. They achieve full brightness as soon as they are switched on. LED furniture lighting therefore has a lasting effect at the push of a button.

### Low Heat Generation

Because of their extremely low power consumption, LED lights generate very little heat. This means that LED lighting systems are particularly suitable for displays.

### Rich In Variants

LED lights are available in different colors, and can be designed as color changing lights. This allows the light color to be coordinated with furniture contents such as exhibits in the best possible way.

## LED Technology

The LED technology incorporates different power systems. A system is decided on by choosing the driver or a particular light. The choice of system is an important decision, because the driver that is selected can only be combined with lights from the same system.

12 V  
System

### Wide Range of Choices in the 12 V System

The LED lights are voltage-controlled and connected in parallel in the 12 V system. The plugs on the driver can be freely allocated. 12 V lights are the most extensive offering at present.

24 V  
System

### Powerful 24 V System

Technically speaking, the 24 V system is identical to the 12 V system, but has a considerably higher power level. 24 V lights can therefore be used when extremely bright lights are required.

350 mA  
System

### Spotlights in the 350 mA System

The LED lights in the 350 mA system are current-controlled and connected in series. This means that each plug has to be either occupied or bypassed. 350 mA lights provide extremely high light power and are particularly suitable for spotlighting.