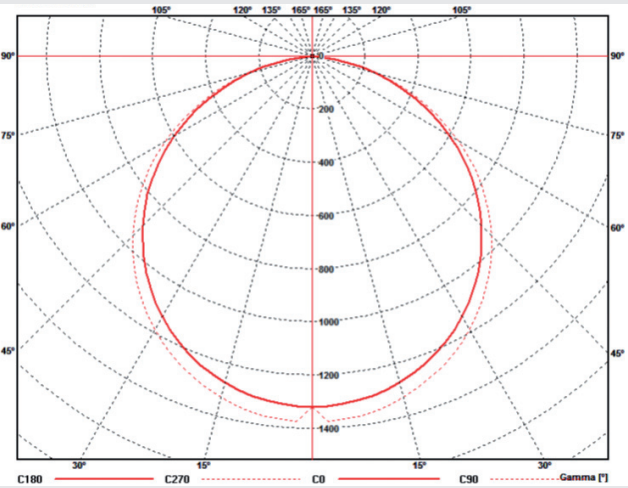
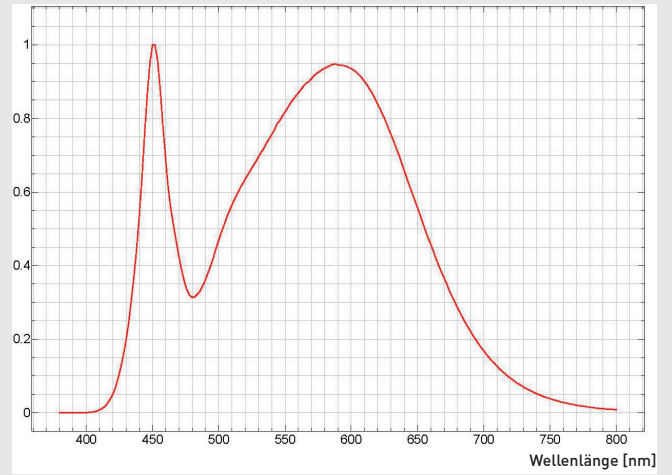




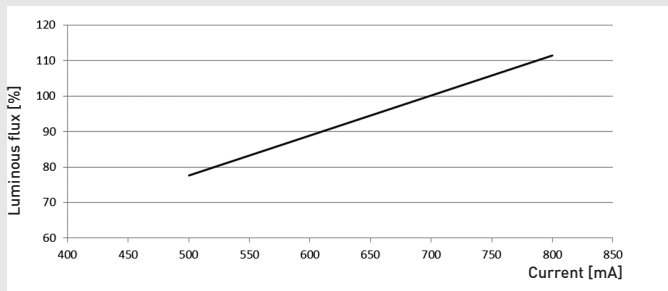
Light distribution



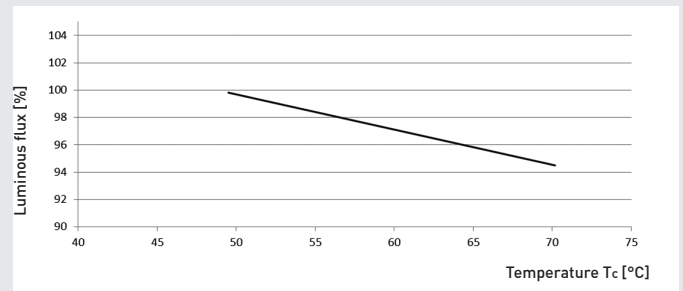
Spectral intensity



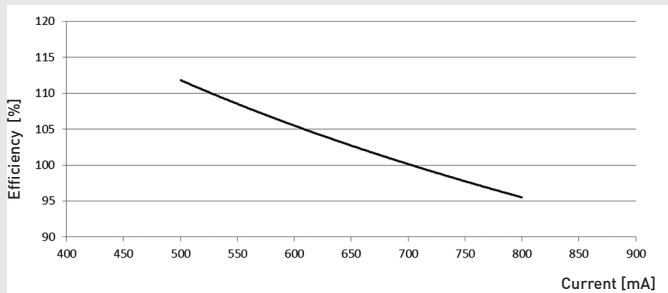
Relative luminous flux based on operational current



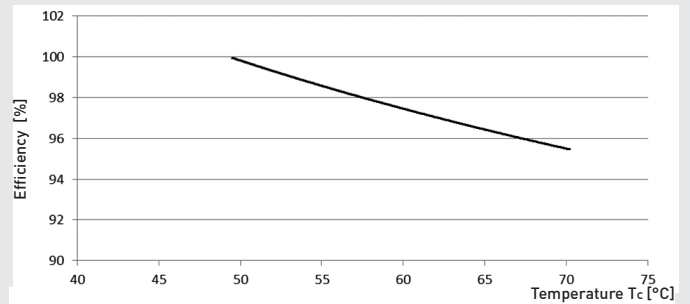
Relative luminous flux based on Tc



Efficiency / leading power

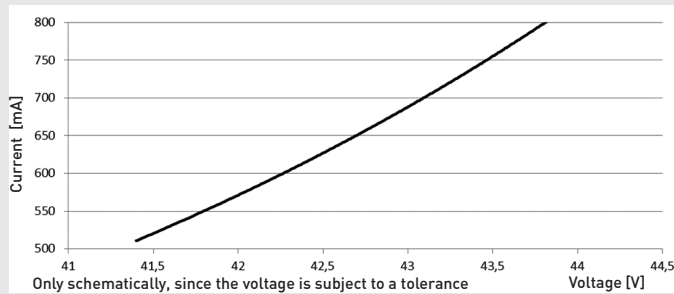


Efficiency / temperature

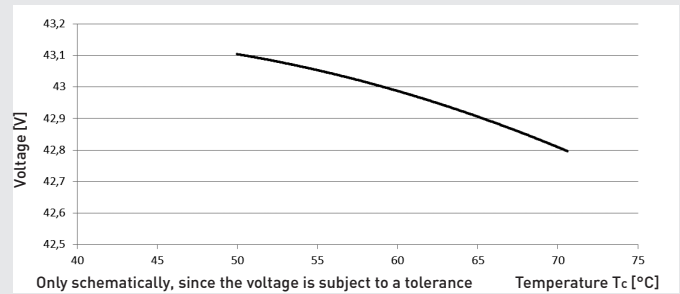




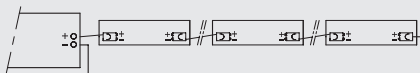
Electrical current / voltage characteristics



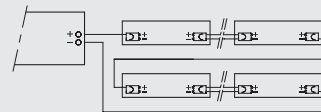
Voltage / temperature



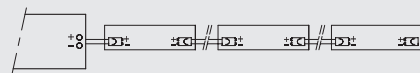
Series connection



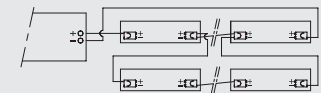
Series board in a parallel connection



Parallel connection



Parallel board in a series connection



The control gear shall be so designed that the maximum current of 700 mA is not exceeded.



EOS/ESD safety guidelines

Some components of the BJB /// OEM – Line Modular System might be harmed by electrostatic discharge (ESD) and electrical overstress (EOS) and may only be installed in the factory and on site if appropriate EOS/ESD protection measures have been taken.

Modules with enclosed housing, where no contact to the LED module is possible do not need special measures for protection of electrostatic discharge (ESD).

Assembly instructions

The LED module may be exposed to tensile or compressive stresses.

We recommend the use of our P2F-Fixing element (28.901.Uxxx):

- Quick assembly process improves production efficiency and reduces production costs
- Eliminates potential damage from screw fixing due to low insertion force
- CrNi and silicone materials ensure long life reliability
- Reliable heat dissipation due to a constant pressure
- Suitable for Zhaga standardised hole sizes of \varnothing 4.7 mm in LED board to ensure future proofed designs
- Assembly without any additional tools
- Solutions for Automation upon request
- Removable connection

Screw fixing

The LED Modules are fixed with at least five screws. For optimised thermal connection we recommend the use of all screw fixing holes. To protect the LED modules against damages only dome headed screws and locking washer should be used. Max. torque for screw fixing: 0,5 Nm

Note to chemical reactions

Chemical substances may harm the LED module. This could lead to reduced luminous flux, colour shift or total failure of the module caused by corrosion of electrical connections. Avoid corrosive atmosphere during usage and storage.

Life span and lumen maintenance

The light output of an LED module decreases over the life-time, this is characterized with the L value.

L70 means that the LED module will give 70 % of its initial luminous flux. This value is always related to the number of operation hours and therefore defines the lifetime of an LED module. As the L value is a statistical value and the lumen maintenance may vary over the delivered LED modules.

Thermal design, tc point, ambient temperature and life-time

The rated life of a LED module depends to a large extent on the temperature. If the permissible temperature limits are exceeded, the life of the LED module will be greatly reduced or the module may be destroyed.

The temperature at tc reference point is crucial for the light output and life-time of a LED module.

Electrical supply

- LED modules from BJB are not protected against overvoltages, overcurrents, overloads or short-circuit currents.
- Safe and reliable operation can only be guaranteed in conjunction with a LED control gear which complies with the relevant standards.
- BJB LED Module must be supplied by a constant current LED control gear.
- Operation with a constant voltage LED control gear will lead to an irreversible damage of the module.
- Wrong polarity can damage the LED module.
- If LED modules are wired in parallel connection and a wire breaks or a complete module fails then the current passing through the other module increases. This may reduce its life considerably. In addition there can be slight differences in light output caused by tolerances.

Wiring and cross section

The BJB LED module are equipped with a BJB SMD terminal blocks. The wiring can be solid cable with a cross section of 0,34 up to 0,75 mm². For perfect function of our SMD terminal blocks you have to strip the insulation 8,0±1 mm.

No tools required! Wires can be released by twisting and pulling the wire simultaneously.