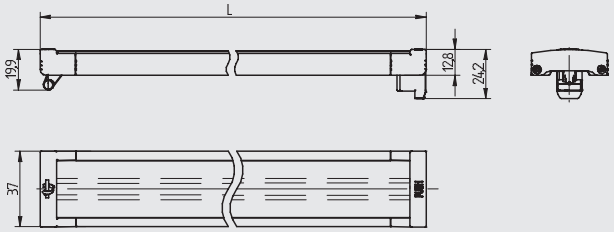
LED - Lighting and connection technology

32.130
28.701

Linear Flat System 565 mm GR6d-1 - Narrow beam



pkg.	wt.	part no.
20	260 g	**32.130**.2035.00

Socketable Flat System according to Zhaga Book 14
LED module category designation: L60W5
Luminous flux category according to Zhaga Book 1: 2000

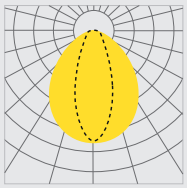
Linear Flat System - Narrow beam
Flat and exchangeable LED lamp - No additional tools required
Length: 565 mm
Small overall height: approx. 13 mm

Range of applications:
Linear- and panel lights
Office: Work place lighting and corridor lighting
Shop: General lighting and corridor lighting
Industry: Park stores, department stores and warehouses
Public applications: Corridors and stairways

Quick and easy installation even in very narrow luminaires (slot light channels)
Audible and tactile feedback during mounting process „Click-Fit"
Late Stage Finishing (final configuration of the luminaire shortly before delivery)

Concentrated illumination of areas in high and narrow aisles
Improved visibility and contrast of the illuminated areas
Good and uniform light distribution

- Photobiological safety: Risk group: 0
- Protection class: IP20
- Warranty*: 5 Years
- CE



Photometric data	Tc 50 °C
Useful luminous flux (120° cone)	1.550 lm
Colour temperature	4.000 K
Colour Rendering Index CRI	>80
Colour tolerance	≤ 3,5 SDCM
Colour code	840 / 359
Number of LEDs per module	39
Beam angle	narrow beam
Temperature data	
Max. temperature at Tc point	max. 65° C
Operating temperature	-30° C up to +45° C
Storage temperature	-30° C up to +85° C
Electrical data	
Operating mode	Constant current
Operational current I_f (mA)	350 mA
Max. operational current I_f (mA)	500 mA
Typical operational voltage U_f (V) ± 7%	37.00 V
Max. admissible voltage	60V SELV
Maximum power consumption (W)	13.90 W
Dimmable	yes, with suitable electronic control gear
Energy data	
Power consumption	14 kWh/1.000h
Energy efficiency class (A-G)	E
Average life span (L80B10)	50.000 h

* Warranty conditions of BJB GmbH & Co KG as stated on page 100 of the LED Applications catalogue (Issue No.1 - 2014) and as available via the Internet under www.bjb.com/warranty-conditions.html are valid.

LED CAD

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Linear Flat System 565 mm GR6d-1 - Narrow beam

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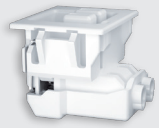
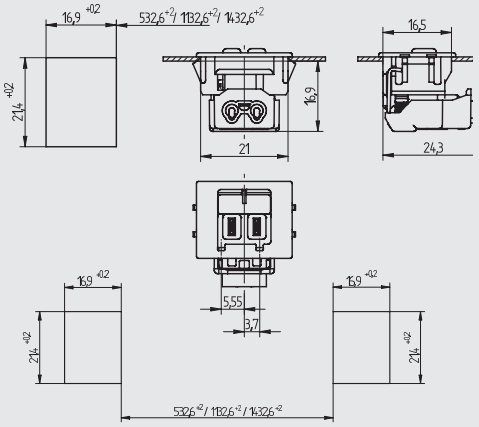
Applicable with:





pkg.	wt.	part no.
480	10 g	**28.701.**1001.51

for panel thickness: 0.4 - 1.0 mm

pkg.	wt.	part no.
480	10 g	**28.701.**1005.51

for panel thickness: 1.0 - 2.0 mm

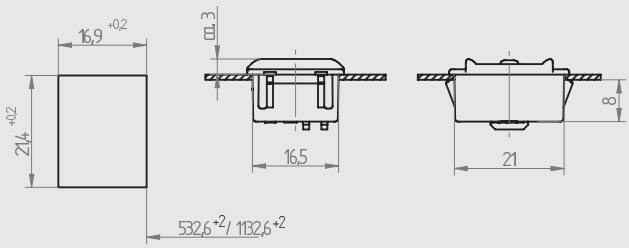
Socketable Flat System according to Zhaga **Book 14**

Lampholder for Linear Flat LED lamp
Socket: GR6d-1
Push in fixing
Holder body: PC

- Also suitable for automatic wiring
- Spring connection "Click-Fit"
- VDE-REG.-Nr. E612

T 80 | 2 A 250 V | 0.25 - 0.75 mm² | CAD | i 98...

Applicable with:



pkg.	wt.	part no.
480	8 g	**28.701.**U301.51

for panel thickness: 0.4 - 1.0 mm

pkg.	wt.	part no.
480	8 g	**28.701.**U302.51

for panel thickness: 1.0 - 2.0 mm

Socketable Flat System according to Zhaga **Book 14**

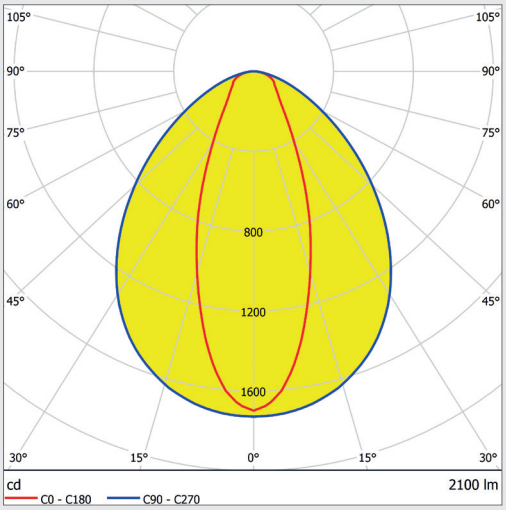
Lamp support for Linear Flat LED lamp
Push in fixing
Material: PC

Thermal extension: Axial movement will be compensated

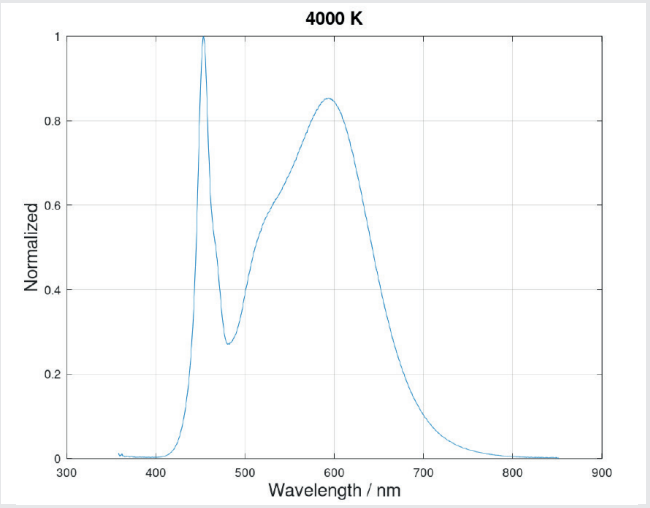
Release function with spring

CAD | i 98...

Light distribution



Spectral intensity



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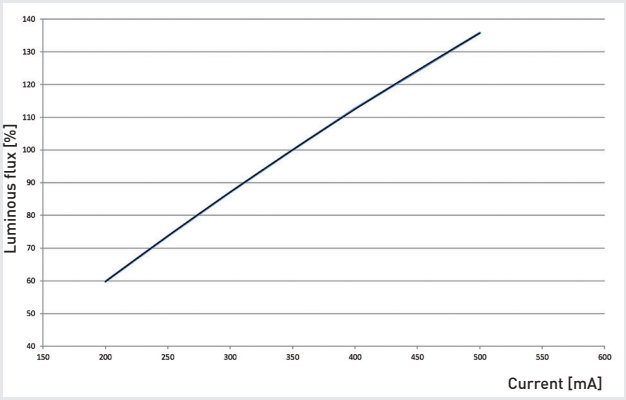
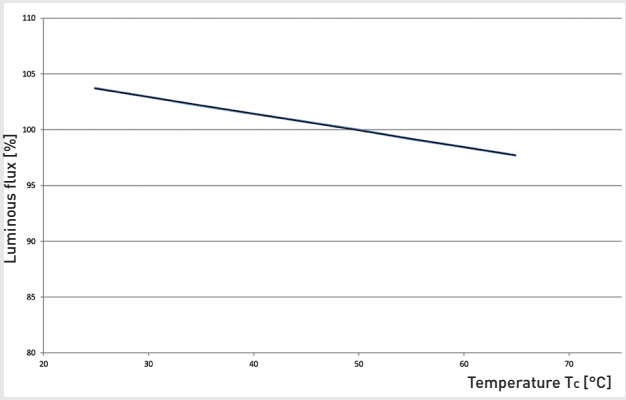
Linear Flat System 565 mm GR6d-1 - Narrow beam

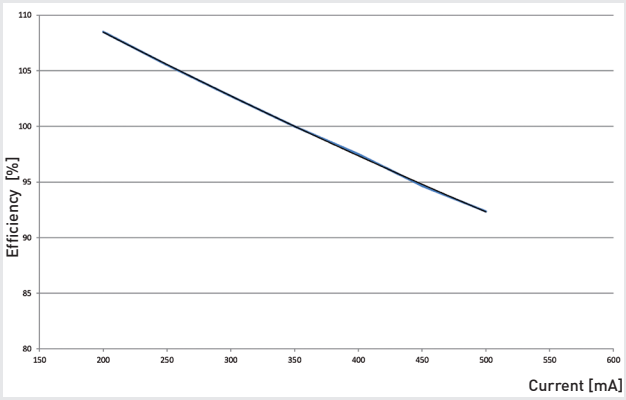
Relative luminous flux based on operational current



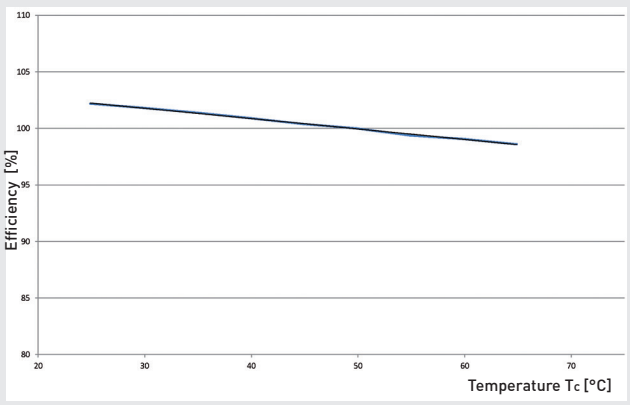
Relative luminous flux based on Tc



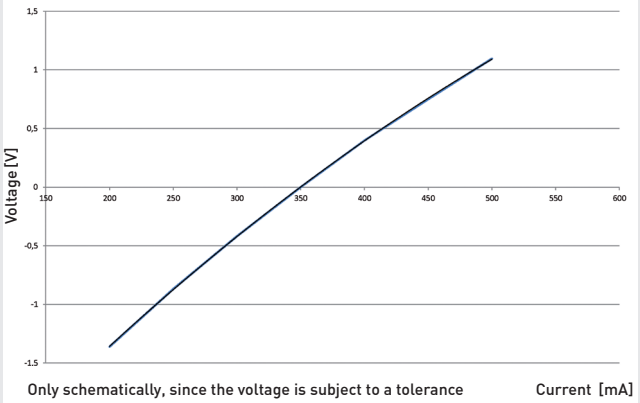
Efficiency / leading power



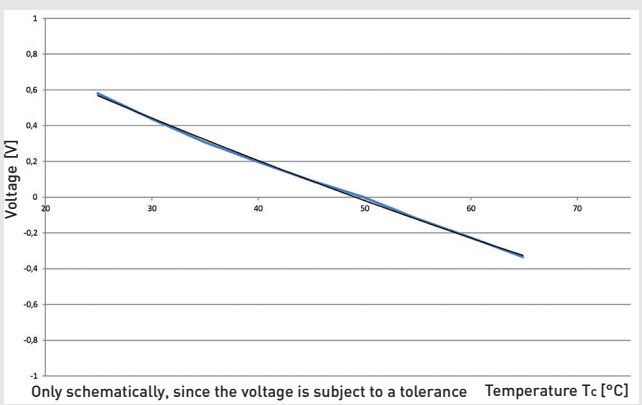
Efficiency / temperature



Electrical current / voltage characteristics



Voltage / temperature



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General information Linear Flat System 565 mm GR6d-1 - Narrow beam

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 like the Linear Flat System 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
Applicable with lampholder and fixing element **28.701**
The LED lamp is inserted into the lamp support and then being swivelled into the lampholder. Afterwards the lamp snaps with the "PUSH" marked side into the click-fit mechanism of the lampholder. Another press on this "PUSH" releases the lamp again. A safety mechanism remains the lamp hanging in the lampholder so that it does not fall out.

Advice: Before pressing again, the LED lamp must be removed completely from the lampholder.

Before an installation or removal of the LED lamp the power supply has to be switched off. A replacement with power supply might harm the LED lamp and /or the controll gear.

Attention should be paid to:
Do not cover the lamp with paper, fabric or other easily inflammable material.
Keep the lamp apart from water and intense humidity.
Avoid additional mechanical stress.
Do not touch the lamp during or shortly after use – Risk of burns!
Do not look directly into the lamp.
Before working on the lamp or luminaire always disconnect from the mains!

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 maintenace 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.
The BJB LED modules shall be operated with SELV converters (U_{out} max. 60 V DC) which provide a constant current. 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 for lampholder 28.701
For solid conductors or conductors with tinned wire ends with a cross section of 0.25 to 0.75 mm ²