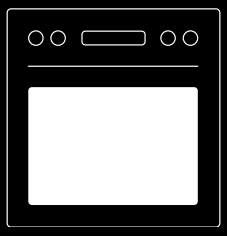
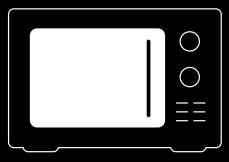
Light for Appliances

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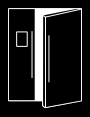


Luminaires for ovens, microwaves
and steam cookers

BJB

Light and Automation
for Appliances

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Luminaires for ovens, microwaves and steam cookers

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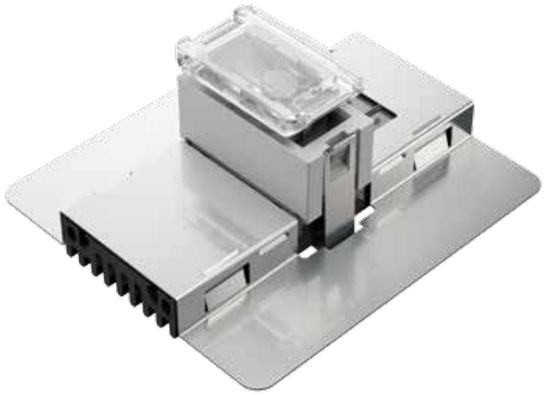
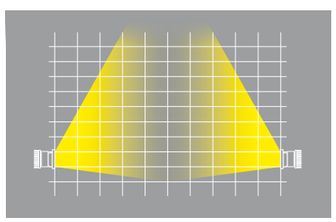
Compact LED oven lamp 77.119



COMPACT SYSTEM FOR UNIFORM ILLUMINATION

Here too, the first striking feature is the extremely compact design, which only requires a cut-out measuring 15.5 x 32 mm. As a result, hardly any thermal losses occur and additional embossments or reinforcements in the oven casing are unnecessary.
Depending on the application, several lamps can be installed, both as side and ceiling lights. The LEDs to be used are then chosen to suit the specific lighting requirement. The asymmetrical light emission characteristic ensures uniform, glare-free illumination.

Light emission characteristic



Uniform illumination, optionally on several levels

ADDITIONAL FEATURES

Fixation method
- Cut-out in oven casing 15.5 x 32 mm

LEDs
- Variable LED parameters (colour temperature, CRI, type, output)
- Recommendation: LEDs with min. CRI 90
- Energy efficiency: Possible leap forward into the next efficiency class

Beam angle
- Symmetrical

Protection class
- Class III due to operation with SELV power source

Example of application

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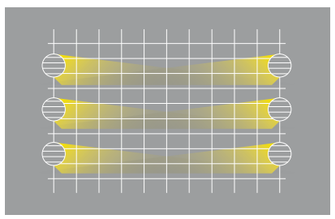
LED lighting system 77.112 for ovens

HIGH-END SOLUTION WITH LIGHT GUIDES

How much you can see when you look into your oven depends on light distribution and flux levels. Standard lighting solutions do not always provide optimum illumination in the cavity of the oven. Some areas of the oven often remain dark. Our new lighting system changes this situation: Two overlapping light cones illuminate the oven cavity from both sides, guaranteeing a homogeneous illumination at all levels and to the full depth of the oven. The light guides can be arranged either vertically or horizontally. With this technology we achieve a light quality which is ideal for show cooking and food presentation.

Light emission characteristic



Homogeneous illumination of all levels by means of light guides

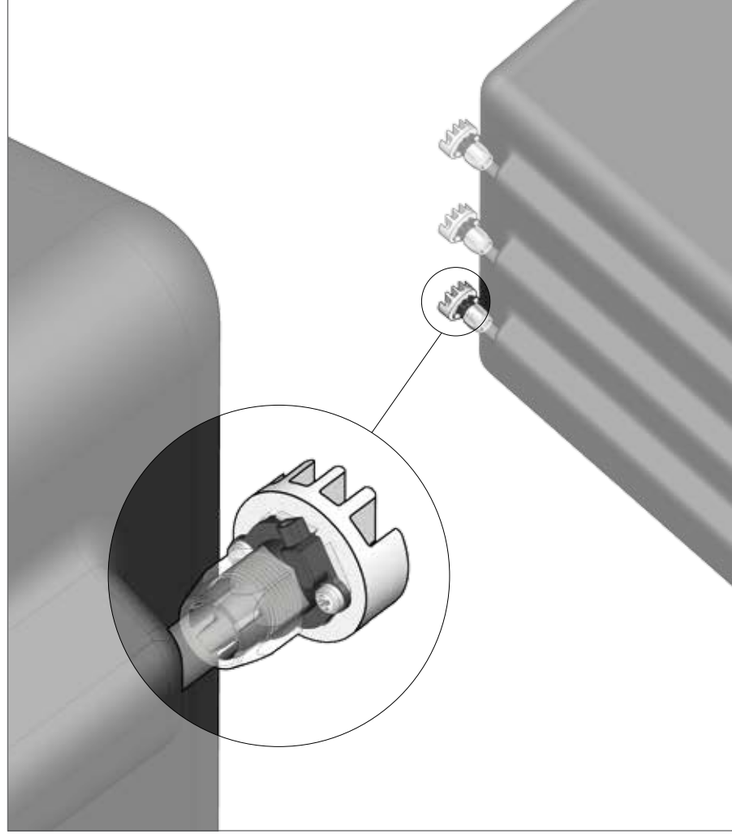
ADDITIONAL FEATURES

Fixation method
Due to the individual structures of ovens, we develop the cut-out and method of attachment according to customer-specific requirements.

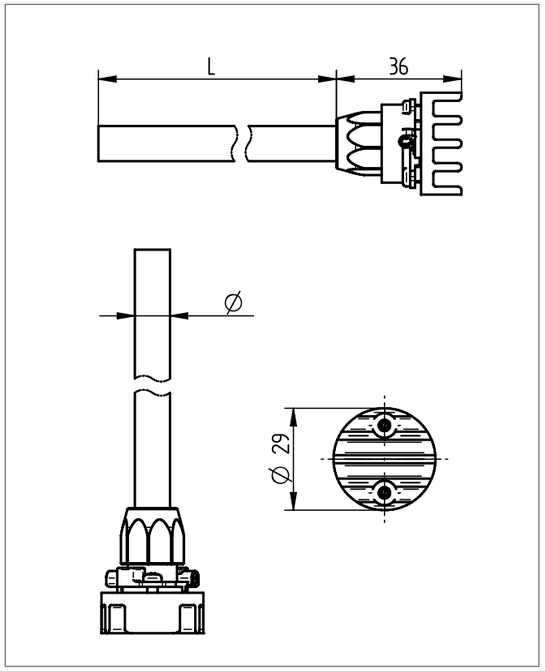
LEDs
- Variable LED parameters (colour temperature, CRI, power rating)
- Energy efficiency: Possibility to upgrade to a higher energy efficiency class

Beam angle
- Symmetrical

Protection class
- Class III due to operation with SELV power source



Example of application



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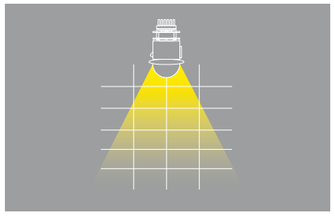
LED oven lamp 77.110 for round cut-out

INNOVATIVE THERMAL MANAGEMENT FOR THE OVEN LAMP

The AIRPASS technology in our round oven lamps for existing standard cut-outs reduces the effort involved for thermal management within the appliance. For this purpose, AIRPASS discs are located on several levels between the LED light source and the reflector or the glass lens. These enable air to circulate and protect the LEDs from the radiant heat from the oven cavity. An additional cooling airflow in the upper part of the light fixture assists heat dissipation, so that no active cooling is required. As AIRPASS technology makes low-cost installation possible in existing appliance series, these LEDs are suitable as entry-level solutions.

Light emission characteristic



In spite of the hot environment: AIRPASS technology ensures low temperatures in the area of the LED

ADDITIONAL FEATURES

Standard Ø = 35.5 mm cut-out,
simple upgrade optional

LEDs
- Variable LED parameters (colour temperature, CRI, power rating)
- Energy efficiency: Possibility to upgrade to a higher energy efficiency class

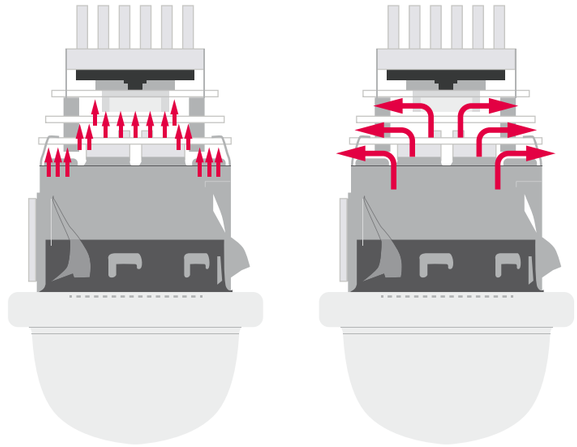
Installation
- Easy installation by means of clip-in fixing

Beam angle
- Symmetrical

Protection class
- Class III due to operation with SELV power source

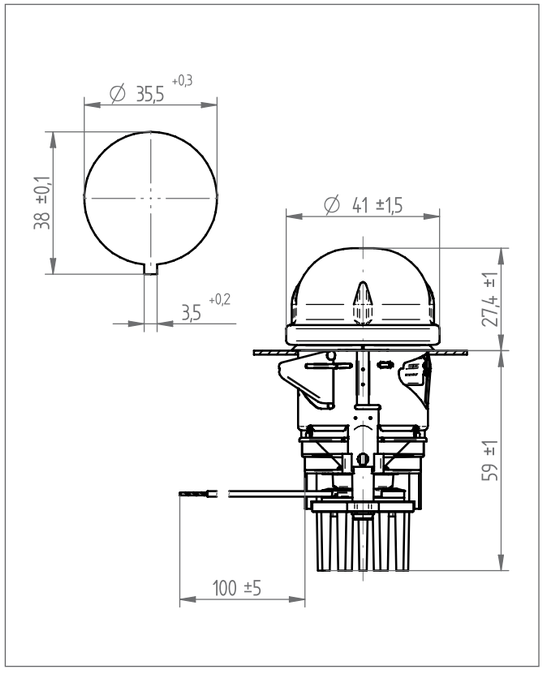
Steam-tight version available for multi-function appliances

AIRPASS
by BJB



Heat containment

Air circulation



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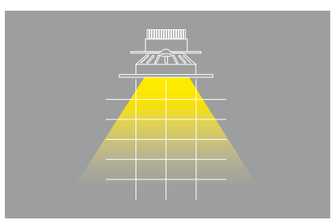
LED lamp 77.109 for combi ovens, microwaves and stream cookers

SIMPLY BRIGHT

This is what our LED luminaires for microwaves and steam cookers stand for. They guarantee an efficient illumination of the oven cavity. As the lifetime of the LED luminaires exceeds that of the appliances in which they are normally installed, there is no need for time-consuming replacement of light sources in household appliances.
Cooking appliances for professional use benefit from a bayonet fixing, which makes the replacement process much easier.

Light emission characteristic



Optimum illumination of the hob by means of symmetrical lens

ADDITIONAL FEATURES

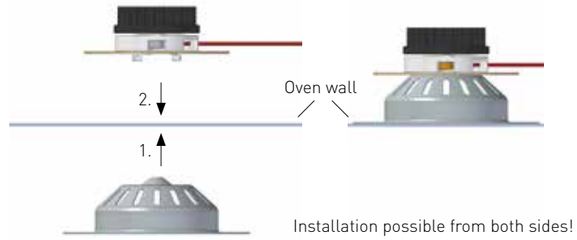
LEDs
- Use of LEDs with various characteristics possible
- Energy efficiency: Possibility to upgrade to a higher energy efficiency class
- Directional light control possible by means of lens

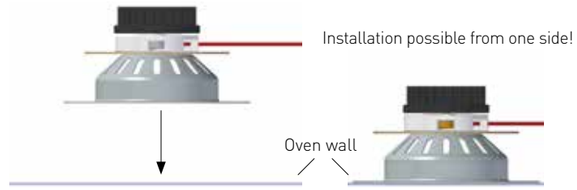
Installation
- Does not protrude into the oven cavity
- Method of fixation in the oven cavity: Clinch/Tox connection or screw connection
- Simple assembly: Depending on manner of installation, no further measures are required to shield against microwaves

Further advantages
- Easy to clean
- Easy to replace due to bayonet fixing (important when used in professional appliances)

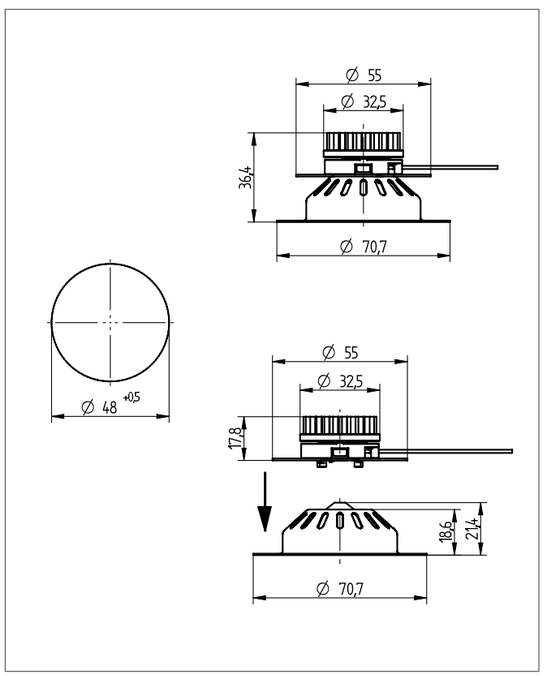
Beam angle
- Symmetrical

Protection Class
- Class III due to operation with SELV power source





Example of applications



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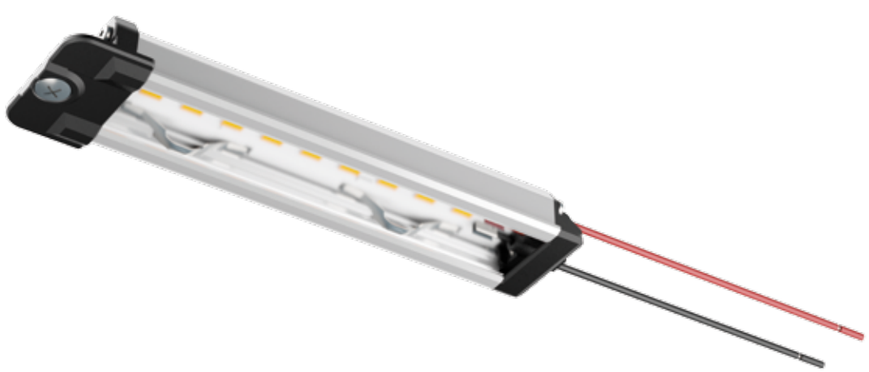
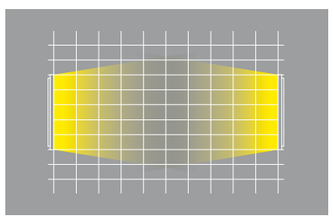
LED door lamp 77.116 for professional cooking equipment



LINEAR LED DOOR LAMP

Professional cooking equipment is usually more complex than conventional household devices made for private use. Equipped with steam generators, fan impellers, grease traps, temperature probes and shelf supports, there is often little space left for lighting.
We developed the 77.116 LED door installation system to ensure that the cooking chamber can be uniformly illuminated despite this lack of space. It is easy to assemble, easy to clean and the lighting technology can be adapted to individual requirements.

Light emission characteristic



Symmetrical illumination

ADDITIONAL FEATURES

LEDs
- Variable LED parameters (colour temperature, CRI, type, output)
- Energy efficiency: Possibility to upgrade to a higher energy efficiency class

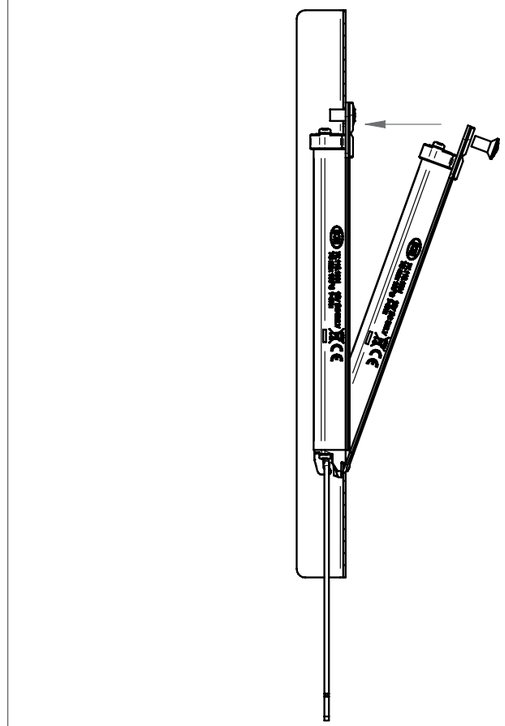
Thermal management
- Thermally optimised components
- Spring clamps ensure even contact pressure between the LED board and the heat sink
- Aluminium heat sink
- Maximum ambient temperature of 100 °C

Installation
- Easy installation using swivel-screw fixing
- Minimal protrusion into the interior
- Easy to service

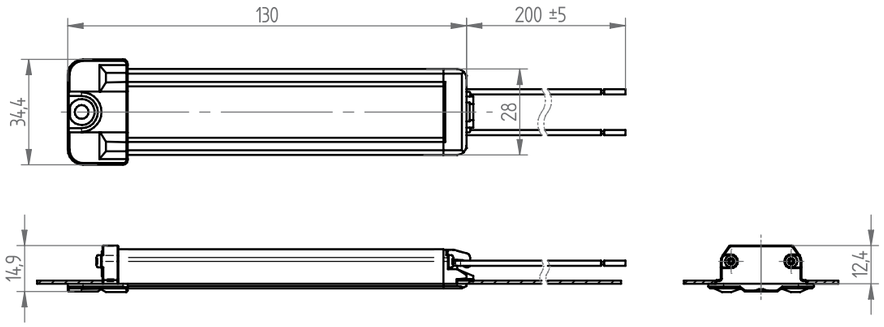
Design
- Variable length
- Satin glass cover
- Robust design

Beam angle
- Symmetrical

Protection class
- Class III due to operation with SELV power source



Swivel-screw fixing



Oven lamps
with conventional lighting technology

EXAMPLE OF LIGHT TYPES		 35.5 mm Panel cut-out	 48 mm Panel cut-out	 67 mm Panel cut-out	 30 x 70 mm Panel cut-out	 55 x 70 mm Panel cut-out
LAMP	E14 (15, 25, 40 W)	●	●	●		●
	G4 (5, 10, 20 W)	●			●	●
	G9 (25, 40, 60 W)	●	●		●	●
FIXING	Clip-in	●	●	●	●	●
	Screw				●	●
SNAP-IN RANGE	0.6 - 1.3 mm		●			
	0.7 - 1.3 mm			●		
	0.8 - 2.0 mm					●
	0.8 - 2.5 mm	●				
	1.0 - 1.6 mm				●	
CONNECTION	Tab terminal	●	●	●		●
	Cables	●	●		●	●
PROTECTIVE GLASS	Screw-in lens	●	●	●		
	Screw and snap-in lens	●				
	Snap-in lens				●	●
VISUAL FEATURES	Clear	●				
	Granulated (partially)	●	●	●	●	●
	Satin finish (matt)	●				
T MARKING	240 °C	●				●
	270 °C	●				●
	300 °C	●	●	●	●	
	350 °C	●	●	●	●	
HEAT-RESISTANT PROTECTIVE GLASS	350 °C	●	●	●		
	500 °C	●			●	●
SEAL		●		●		●

Please contact us for further options.

Light and Automation
for Appliances

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