



The lighting  
system for  
furnishings



LED lighting systems for furniture and furnishings

# Light for every mood and function



## Lighting systems for furniture and furnishings

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# Engineered by Häfele

Loox is the Häfele brand for LED lighting systems. Thanks to its innovative driver and the functional Plug & Play technology, it is mainly suitable for use in mass-produced furniture. The modular Loox system has many international certificates, and can therefore be used worldwide.

## Feature no. 1: A driver that is international

The Loox driver is adaptable to power systems anywhere in the world, meaning that you can wait until the last minute before deciding to use Loox in a particular country. The type of light can be chosen right at the start – without compromises.

### Benefits in mass production:

The furniture can be manufactured complete with Loox lights without knowing its final destination. The corresponding mains lead just needs to be plugged in on site, and the furniture is “ready to go”.



UK (250 V)



AU (250 V)



EU (250 V)



US (120 V)



JP (100 V)



CN (250 V)



KR (250 V)



## Certified safety



SELV IP20

The definition of the symbols can be found on page 61.



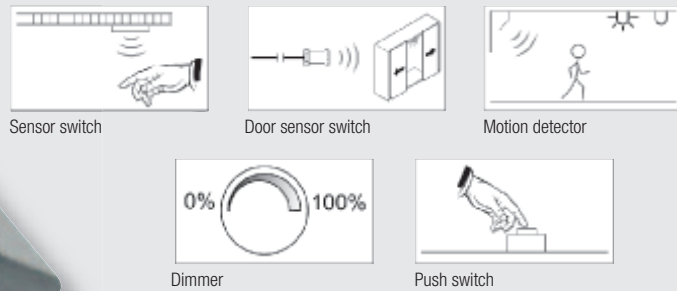
## Feature no. 2: **Integrated controller**

External control units are a thing of the past. The controller is integrated in the driver and the switch. The switch that is required is connected directly to the driver without the need for additional components.

### Benefits in furniture construction:

Compact – because no external control unit is required.

Flexible – free choice of switch type.



## Feature no. 3: **Wide variety of lights**

The LED is the future of lighting technology. Loox already contains a wide variety of LED lights - individual design variants are possible.

### Benefits for furniture design:

Standardised furniture can differ in terms of the lights, meaning that the desire for individuality can be fulfilled without problems.



# Loox by Häfele

As a powerful partner to the furniture industry, Häfele is aware of the responsibility that constructive cooperation represents as far as lights are concerned. We prefer to accompany your project from start to finish - with care and reliability. We call this "Häfele Engineering".

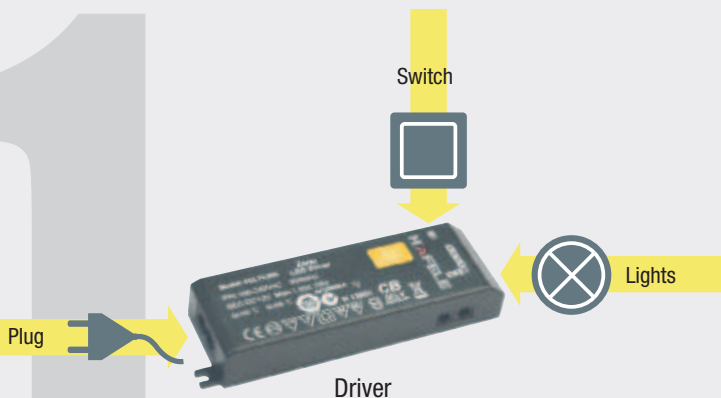
## Loox quality

"The whole is greater than the sum of its parts" – this quote from Aristotle describes the Loox system in a nutshell. A tremendous amount of development work has gone into Loox. Loox lights are high quality and can be efficiently integrated in the production of mass-produced furniture. The global deployment of Loox in mass-produced furniture is guaranteed by means of high testing standards and the necessary certification.



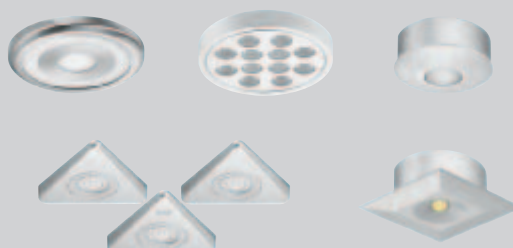
## Loox modular system

Loox is structured in accordance with a clear modular principle. Regardless of whether your plans are drawn up from the starting point of the light or the driver, a driver and a wide range of lights, switches and mains leads are available for any Häfele LED technology.



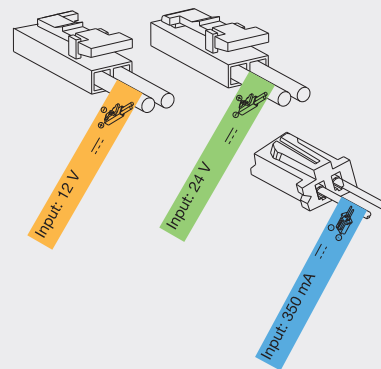
## Loox lights

Lights are subject to the rules of fashion. Because of the standardised plug-in connection, Loox lights can be replaced without problems at any time. This makes it easier to adapt the lights to the lifecycle of the furniture series. The lights are selected in accordance with the latest trend – but the driver remains the same.



## Loox LED technology

In a rapidly growing market such as the LED technology market, you need partners who acknowledge your technology and provide well thought-out systems. Loox provides a unique, unmistakable plugging system for lights, drivers and switches for any technology. Each driver and each light is also marked with the symbols for **12 V System**, **24 V System** and **350 mA System** (colour and text). Mix-ups are therefore ruled out.



3  
4  
5



## Loox packaging and logistics

Häfele helps to provide smooth integration of the selected LED technology in mass production with individual packaging. All components that are required are packed in freely definable sets and also delivered to the required location "just in time" if necessary.



## Loox planning service

Light in furniture provides new design possibilities. Depending on how the furniture is going to be used, the light takes over different functions. In order to ensure that the effect of the light in the furniture can be tried out in as realistic a way as possible, Häfele provides virtual room situations for individual lighting at <http://www.hafele.com/loox>



## of lighting technology

LED's (Light Emitting Diodes) can vary the properties of the light that is generated, and generate almost the entire colour spectrum. Unlike normal light bulbs and halogen lamps, LED's generate little heat. They use less energy and have 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.

#### Insensitive

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

#### Low heat generation

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

#### 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.

#### Powerful

Modern LED lights are bright and have a saturated light colour. 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.

#### Rich in variants

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

### Loox LED technology

The Loox 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** Spoiled for choice 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 widespread 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.

## from furniture with light

Light inside furniture sets a mood, it improves the atmosphere and quality of life and home and in the office. The innovative Loox lights are especially suitable to simplify and improve accent lighting, guidance, safety and comfort.

### Light in drawers

to improve access

Adding comfort to every furniture piece means illuminated drawers; it's the perfect solution to supplementing ambient light.



### Better light in the workplace

leads to improved results

Particularly in areas that call for a higher degree of attention, additional light sources should be used for proper illumination.

### Background lighting

for an improved atmosphere

For special occasions such a relaxing or to have a party, indirect light sources set a special mood.



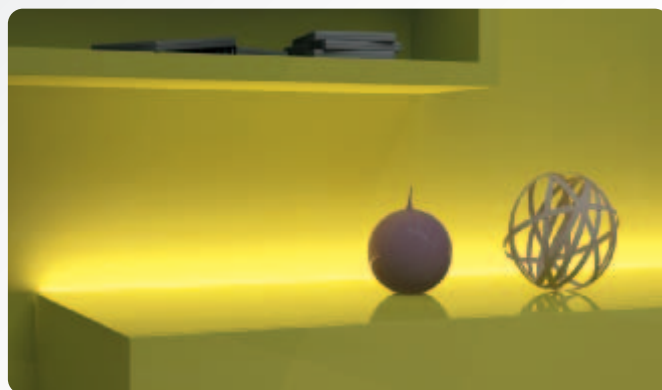


## As diverse as life itself.

Relaxing, playing, reading, watching TV with the family, alone or in a cosy gathering of guests: No other room is used in as many different ways as the living room. At the same time, the living room is an expression of your own personality and a reflective of your style. For the lighting design plan this means: Versatile and flexible light sources to perfectly enhance the varying activities.



Inconspicuous spot lights bring decoratively displayed items into focus for those present.



Indirect background lighting emphasizes furnishings and creates a pleasant atmosphere.



## A room to savour.

Today, the kitchen is a living area and favourite place to gather for family and friends. Good light to work and more pleasant light during meals therefore is a requirement of the lighting plan that also needs to take furniture materials into account. Precious wood fronts and other dark surfaces absorb light while light high gloss fronts reflect it.



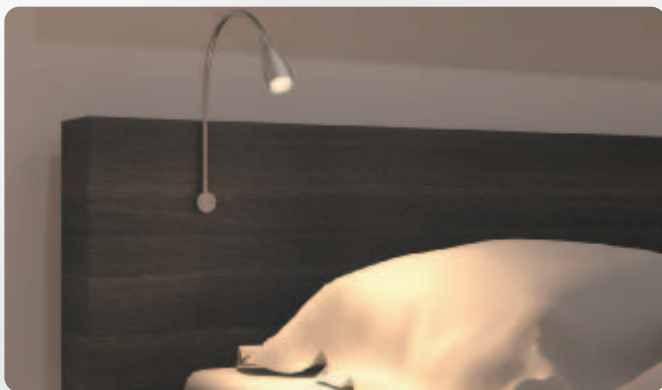
More enjoyment during cooking thanks to bright and even illumination of work surface.



Interior lighting of cabinets provides a better overview while at the same time creating a pleasant atmosphere during dinner.

### Retreating and feeling well.

There isn't another living space in which we spend more time than our bedroom. It's a cosy retreat for reading, watching TV or romance. It's also the room to dress or change clothes and for the wardrobe, maybe even walk-in closets. Perfectly adapted light accents and provides functionality and cosiness.



A flexible bedside light provides directional light so that the partner's dreams are uninterrupted.



And discreet low level light helps navigation in the dark.

## A stylish welcome.

A walk-in closet has a greater responsibility than to just provide adequate clothes storage, it should also offer enough space to select the right outfits and to dress. Interesting lighting concepts have the task to create a balanced mix of task lighting as well as creating a cosy atmosphere.



Practical and attractive – an illuminated wardrobe rail.



Accessories are always accessible and presented stylishly on the illuminated shelf.



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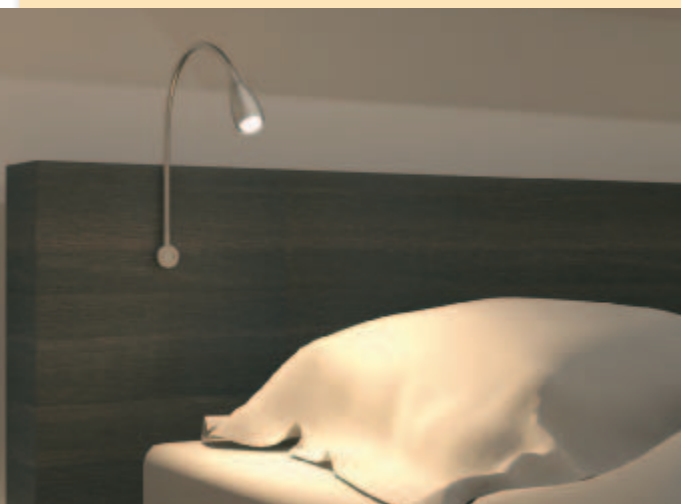


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## Flexible light

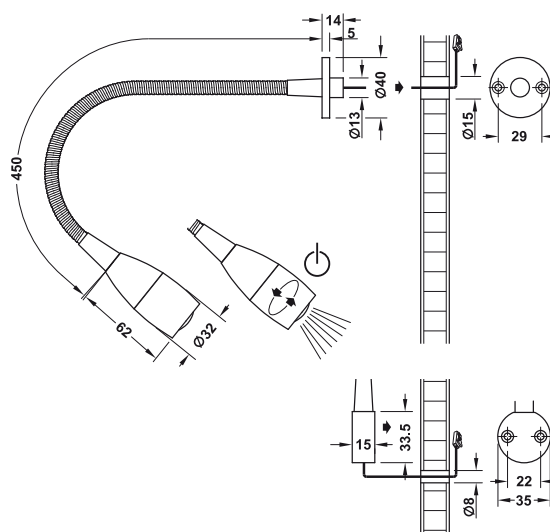


Reading light, flexible spotlight in the bookshelf or storage area – the application areas of the LED 2018 light could hardly be more diverse. It is easy to position, and the integrated glass lens provides a pleasant, uniform cone of light.



833.74.100

833.74.110



## Cat. No.

833.74.\*\*\*

100

110

Light colour (K)

3000  
(warm white)

Length (mm)

450

Diameter (mm)

32

Wattage (W)

2

Number of LED's

1

Light output (Lumen)

70

Lumen per Watt

35

(Efficacy)

Colour rendering index  
(CRI)

93

Finish

Silver grey

Packing

1 piece with mounting accessories

Cable length

2.0 m

 Cannot be dimmed.

 Driver

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3000 K

25°

Distance

2500 lx

250 mm

1000 lx

500 mm

500 lx

750 mm

300 lx

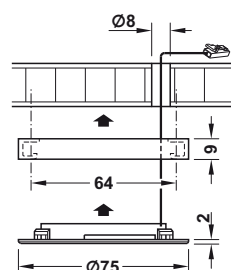
1000 mm



## Down light



The extra-thin LED 2001 down light is particularly suitable for providing decorative lighting in furniture with shelves. A prismatic cover provides pleasant light. Two finishes are available for optimum integration in the furniture design.



Cat. No.	833.73.***	
	000	001
Light colour (K)	6400 (cool white)	
Diameter (mm)	75	
Height (mm)	11	
Wattage (W)	1.7	
Number of LED's	21	
Light output (Lumen)	126	
Lumen per Watt (Efficacy)	74	
Colour rendering index (CRI)	60	
Finish	Plastic silver coloured	Plastic white
	With translucent, prismatic lamp cover	
Packing	1 piece with mounting accessories	
Cable length	2.0 m	



Driver

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6400 K

200 lx

70 lx

40 lx

22 lx

90°

Distance

250 mm

500 mm

750 mm

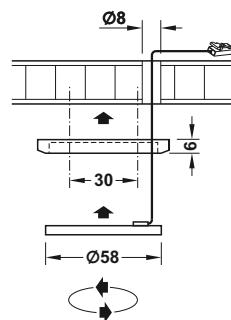
1000 mm



## Down light



The LED 2002 down light is characterised by its extremely flat shape, and is available in three light colours. In furniture and furnishings it is particularly suitable for providing decorative lighting in shelving and display cabinets.



Cat. No.	833.73.***		
	200	210	220
Light colour (K)	5000 (cool white)	3200 (warm white)	Blue
Diameter (mm)	58		
Height (mm)	6		
Wattage (W)	1.5		
Number of LED's	19		
Light output (Lumen)	62	51	16
Lumen per Watt (Efficacy)	41	34	10
Colour rendering index (CRI)	80	90	—
Finish	Plastic housing with stainless steel ring		
Packing	1 piece		
Cable length	2.5 m		



Driver

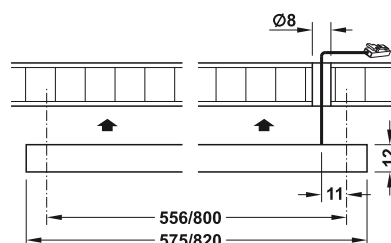
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5000 K	3200 K	Blue	160°	Distance
400 lx	254 lx	230 lx		250 mm
140 lx	90 lx	80 lx		500 mm
80 lx	46 lx	40 lx		750 mm
40 lx	23 lx	20 lx		1000 mm

## Down light



If you are looking for an interesting design element in decorative furnishing areas, the LED 2004 light bar is just the ticket. It can be integrated into furniture almost invisibly because of its compact design.



Cat. No.	833.73.***			
	040	041	050	051
Light colour (K)	6400 (cool white)		3400 (warm white)	
Length (mm)	575	820	575	820
Width (mm)	13			
Height (mm)	12			
Wattage (W)	1.8	2.8	1.8	2.8
Number of LED's	24	36	24	36
Light output (Lumen)	90	135	90	135
Lumen per Watt (Efficacy)	75			
Colour rendering index (CRI)	67			
Finish	Aluminium, silver coloured anodized			
Packing	1 piece with mounting accessories			
Cable length	2.0 m			

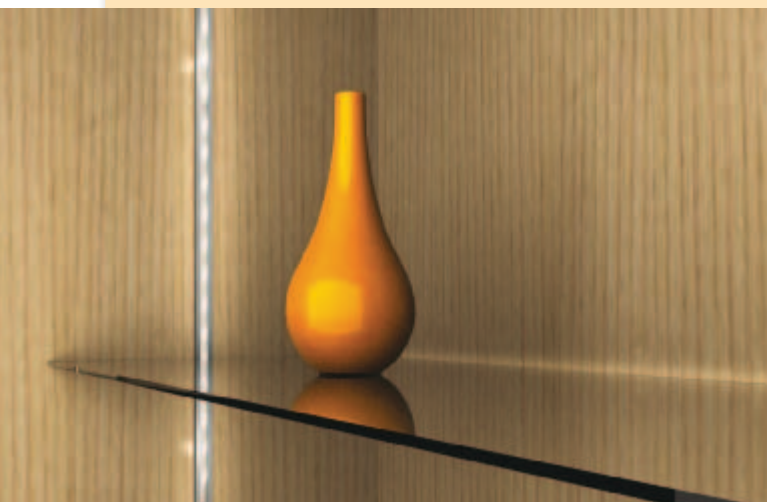


Driver

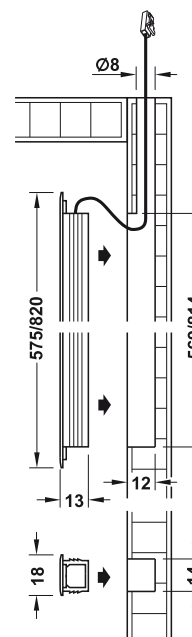
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6400 K	3400 K	120°	Distance
200 lx	150 lx		250 mm
90 lx	65 lx		500 mm
50 lx	40 lx		750 mm
35 lx	25 lx		1000 mm

## Recess mounted light



The LED 2005 light bar can be integrated flush in furniture and therefore provides the possibility of installing lighting in display cabinets and representative furnishings. This light gives added value to any furniture because of its decorative effect, without influencing the design thereof. Additional variants are provided by two available lengths and light colours.



Cat. No.	833.72.***			
	000	001	010	011
Light colour (K)	3400 (warm white)		6400 (cool white)	
Length (mm)	575	820	575	820
Width (mm)	12			
Height (mm)	14			
Wattage (W)	1.8	2.8	1.8	2.8
Number of LED's	24	36	24	36
Light output (Lumen)	90	135	90	135
Lumen per Watt (Efficacy)	75			
Colour rendering index (CRI)	66	67	66	67
Finish	Aluminium, silver coloured anodized			
Packing	1 piece			
Cable length	2.0 m			

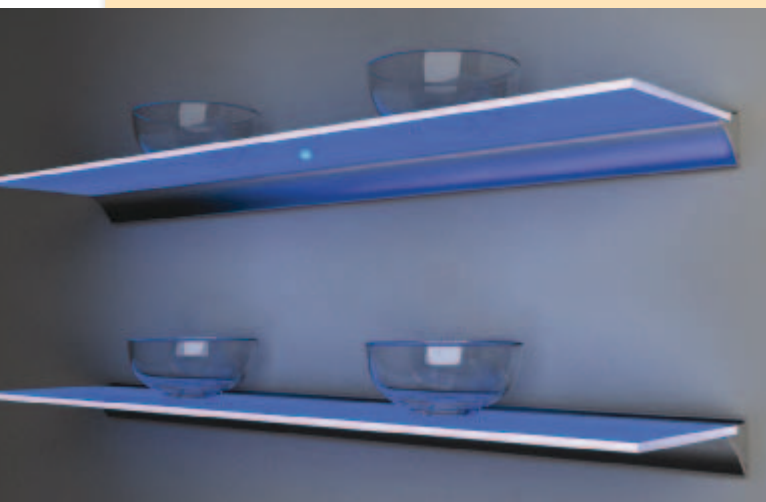


Driver

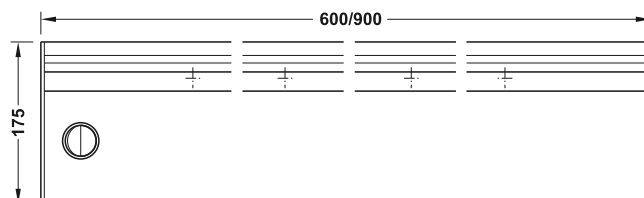
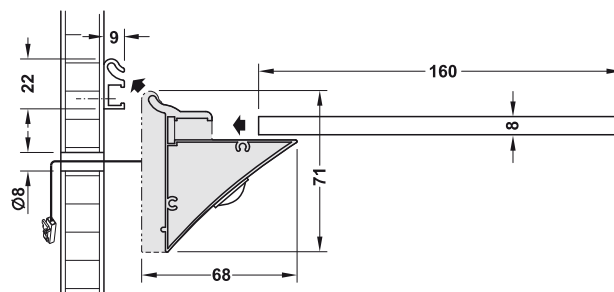
page 33

3400 K	6400 K	120°	Distance
150 lx	200 lx		250 mm
65 lx	90 lx		500 mm
40 lx	50 lx		750 mm
25 lx	35 lx		1000 mm

## Illuminated glass shelf



Functionality and design in one – combined perfectly in the LED 2006. Being a lighting element and a glass shelf at the same time, this innovative glass shelf generates uniform decorative light effects. Other types of emphasis can be set with the available light colours and satin-finish glass surfaces.



Cat. No.	833.74.***					
	000	001	010	011	020	021
Light colour (K)	RGB		Blue		6400 (cool white)	
Length (mm)	600	900	600	900	600	900
Height (mm)	70					
Depth (mm)	175					
Wattage (W)	2.8	4.5	2.8	3.5	2.8	4.0
Number of LED's	15	24	33	51	33	51
Light output (Lumen)	20	31	20	31	198	306
Lumen per Watt (Efficacy)	7	6	7	6	66	61
Colour rendering index (CRI)	–		–		70 – 80	
Finish	Aluminium, silver coloured anodized, with satin-frosted glass					
Packing	1 piece with mounting accessories					
Cable length	2.0 m					



RGB version cannot be dimmed.  
The colour mixer is integrated in the  
profile in the RGB version.



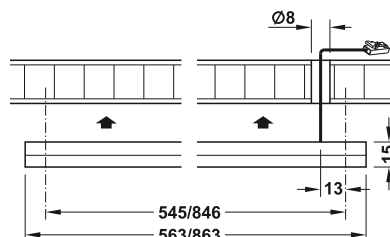
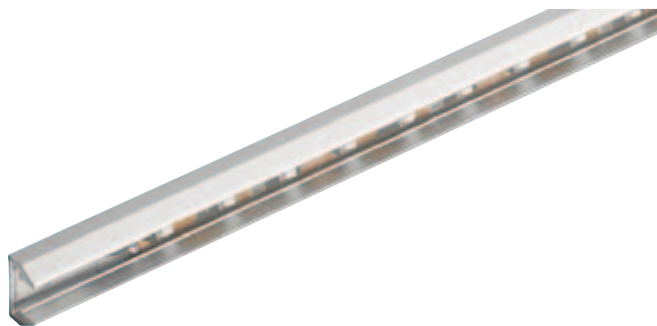
Driver

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## Glass edge light



The LED 2007 clip-on profile is designed for installing behind glass shelving. It is ideal for 8 mm thick glass shelves and provides an effective, emotional enhancement to furniture and furnishings. The design only requires an extremely small amount of space behind the glass shelf. Two lengths and two light colours are available for individual design.



Cat. No.	833.74.***			
	050	051	060	061
Light colour (K)	3400 (warm white)		Blue	
Length (mm)	563	863	563	863
Width (mm)	12			
Height (mm)	15			
Wattage (W)	2.5	4.0	2.5	4.0
Number of LED's	30	48	30	48
Light output (Lumen)	180	288	18	29
Lumen per Watt (Efficacy)	72		7	
Colour rendering index (CRI)	55 – 60		–	
Finish	Aluminium, silver coloured anodized			
Packing	1 piece with mounting accessories			
Cable length	2.0 m			



The glass edge light is pushed onto the glass shelf from the rear. Without load bearing function!



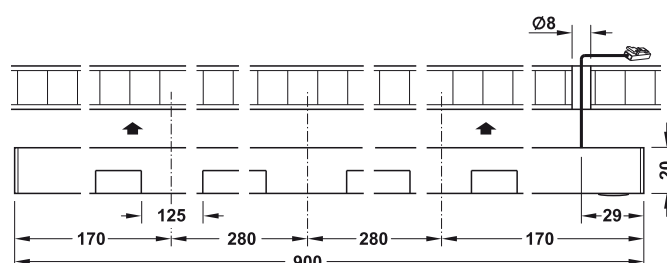
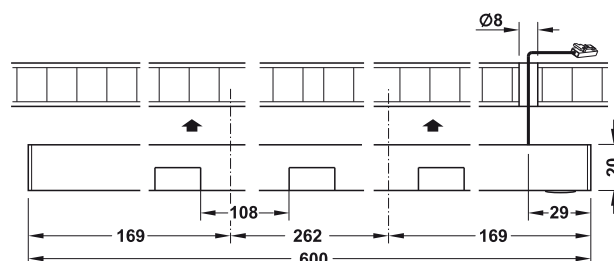
Driver

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## Down light with sensor switch



Wide shelves, wall units and worktops – these are the classical areas of application for the LED 2003 light bar with its generous amount of light. Thanks to an integrated sensor, the classical on/off switch is not needed.



Cat. No.	833.73.***	
	020	021
Light colour (K)	6400 (cool white)	
Length (mm)	600	900
Width (mm)	30	
Height (mm)	20	
Wattage (W)	3.0	3.6
Number of LED's	9	12
Number of light openings	3	4
Light output (Lumen)	140	210
Lumen per Watt (Efficacy)	58	66
Colour rendering index (CRI)	67	67
Finish	Aluminium, silver coloured anodized	
Packing	1 piece with mounting accessories	
Cable length	2.0 m	



Cannot be dimmed.



Driver

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6400 K

200 lx

88 lx

45 lx

33 lx

90°

Distance

250 mm

500 mm

750 mm

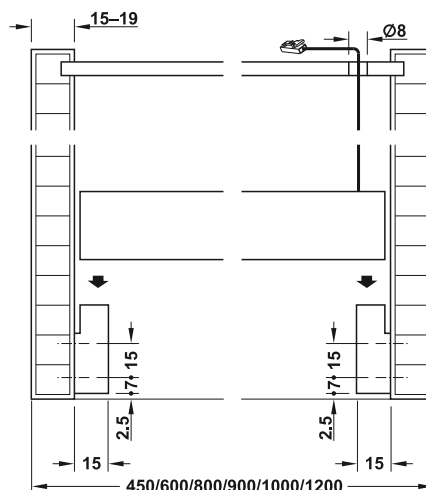
1000 mm



## Drawer light



The 2008 light bar with integrated door sensor for switching on and off brings light into the dark in any storage space. Typical areas of application are the areas behind doors and drawers, whereby the light is uniformly distributed towards the front and downwards.



## Cat. No.

833.73.\*\*\*

	060	061	062	065	063	064
Light colour (K)	6400 (cool white)					
Length (mm)	405	555	755	855	955	1155
Width (mm)	30					
Height (mm)	20					
Wattage (W)	1.5	2.0	2.5	2.5	3.0	3.5
Number of LED's	6	9	12	12	15	18
Number of light openings	2	3	4	4	5	6
Light output (Lumen)	70	105	140	140	175	210
Lumen per Watt (Efficacy)	44					
Colour rendering index (CRI)	67					
Finish	Aluminium, silver coloured anodized					
Packing	1 piece with mounting accessories					
Cable length	2.0 m					



Cannot be dimmed.



Driver

page 33

6400 K

90°

Distance

200 lx

250 mm

88 lx

500 mm

45 lx

750 mm

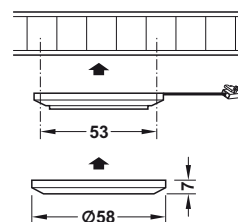
33 lx

1000 mm

## RGB down light



Do you want to enhance your furniture and furnishings with lighting using an individual colour shade or using automatic colour changes? If so, the space-saving LED 2009 colour changing light is the right choice. You will be surprised at its versatility!



<b>Cat. No.</b>	<b>833.73.150</b>
Light colour (K)	RGB
Diameter (mm)	58
Height (mm)	7
Wattage (W)	1.2
Number of LED's	8
Light output (Lumen)	10
Lumen per Watt (Efficacy)	8
Colour rendering index (CRI)	—
Finish	Stainless steel matt
Packing	1 piece with mounting accessories
Cable length	2.5 m



Cannot be dimmed.



Cat. No. 833.74.700  
colour mixer with remote control



Cat. No. 833.74.741  
9-way RGB distributor



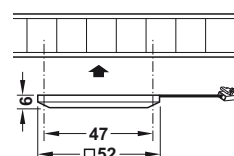
Driver

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## RGB down light



The LED 2010 is the right choice if you wish to create design emphasis in a small amount of space with a down light with changing colours. The colour thereof can be selected by the customer and requires very little room.



<b>Cat. No.</b>	<b>833.73.100</b>
Light colour (K)	RGB
Length (mm)	52
Width (mm)	52
Height (mm)	6
Wattage (W)	1.7
Number of LED's	9
Light output (Lumen)	15
Lumen per Watt (Efficacy)	9
Colour rendering index (CRI)	—
Finish	Stainless steel matt
Packing	1 piece with mounting accessories
Cable length	2.5 m



Cannot be dimmed.



Cat. No. 833.74.700  
colour mixer with remote control



Cat. No. 833.74.741  
9-way RGB distributor



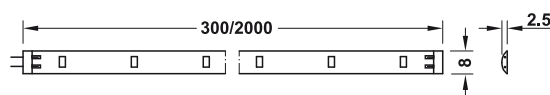
Driver

page 33

## LED flexible strip light



The LED 2011 strip light with its extremely small space requirement is easy to process and can be flexibly adapted to any furnishing. The strip light has a self adhesive backing and can be individually shortened. This means that this light is also ideal for retrofitting. Two lengths and two light colours are available for furniture design.



Can be shortened after every third LED, every 75 mm.  
Installation: Self-adhesive

Cat. No.	833.73.***			
	250	252	260	262
Light colour (K)	5000 (cool white)		3200 (warm white)	
Length (mm)	300	2000	300	2000
Width (mm)	8			
Height (mm)	2.5			
Wattage (W)	0.8	5.0	0.8	5.0
Number of LED's	12	72	12	72
Light output (Lumen)	39	237	32	194
Lumen per Watt (Efficacy)	49	47	40	39
Colour rendering index (CRI)	80		90	
Finish	Plastic white			
Packing	1 piece			

**T-connector:**

Length: 75 mm;  
Wattage: 0.2 W; 3 LEDs;  
Cat. No. 833.73.300  
T-connector, 5000 K (cool white)

Cat. No. 833.73.310  
T-connector, 3200 K (warm white)

Cat. No. 833.74.712  
2.5 m interconnecting lead (connection  
between flexible strip lights and driver)

Cat. No. 833.74.713  
50 mm interconnecting lead  
(e.g. for corner connection)



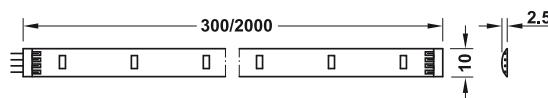
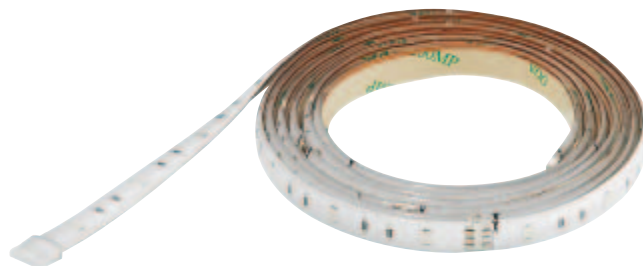
Driver page 33

5000 K	3200 K	120°	Distance
108 lx	90 lx		250 mm
38 lx	30 lx		500 mm
18 lx	12 lx		750 mm
10 lx	5 lx		1000 mm

## LED flexible strip light, RGB



Furniture is put into the right light by means of individually selectable light colours using the LED 2012 colour changing strip light. Ideal for retrofitting: The strip light can be shortened in accordance with customer requirements and flexibly adapted to any furnishing.



## Cat. No.

833.73.\*\*\*

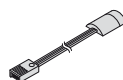
	320	322
Light colour (K)	RGB	
Length (mm)	300	2000
Width (mm)	8	
Height (mm)	2.5	
Wattage (W)	2.0	12.0
Number of LED's	12	72
Light output (Lumen)	22	129
Lumen per Watt (Efficacy)	12	13
Colour rendering index (CRI)	-	
Finish	Plastic white	
Packing	1 piece	



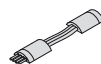
Can be shortened after every sixth LED, every 150 mm.  
Installation: Self-adhesive  
Cannot be dimmed.



Cat. No. 833.74.700  
colour mixer with remote control



Cat. No. 833.74.711  
2.5 m RGB interconnecting lead  
(connection between LED strip lights  
and RGB colour mixer)

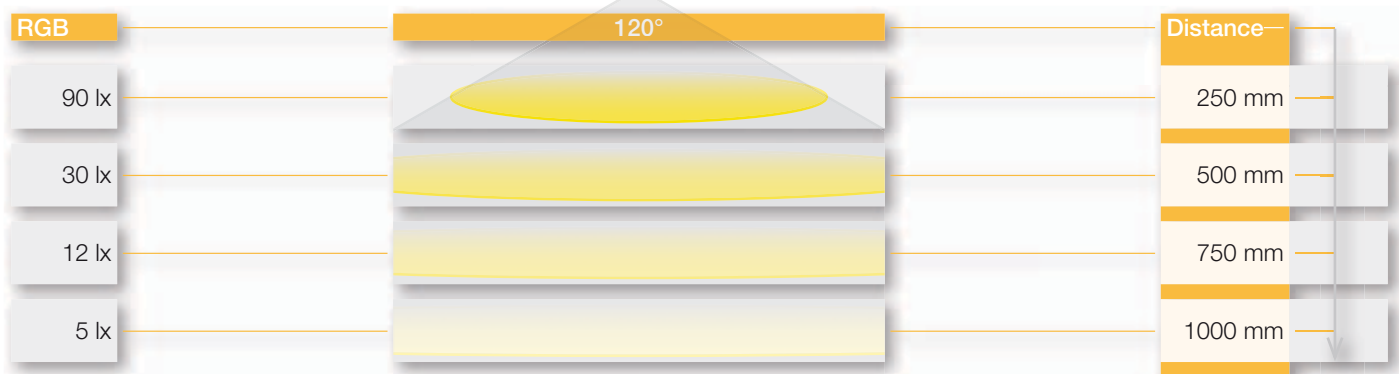


Cat. No. 833.74.710  
50 mm RGB interconnecting lead  
(e. g. for corner connection)



Driver

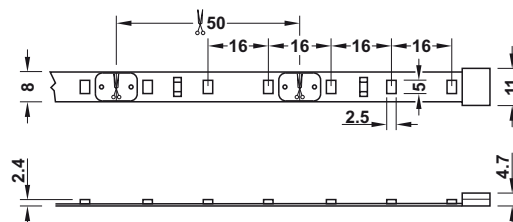
page 33



## 5 m LED strip light with 300 LED's



The LED 2013 strip light is ideal for background lighting for furniture and furnishings. The close LED grouping on the strip provides uniform lighting. The strip light can be shortened individually and is therefore extremely flexible from a processing point of view.

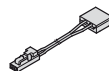


## Cat. No.

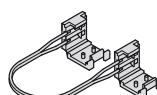
Cat. No.	833.73.***			
	330	340	350	360
Light colour (K)	3200 (warm white)	6500 (cool white)	Blue	Red
Length (mm)	5000			
Width (mm)	8			
Height (mm)	2.5			
Wattage (W)	24 (max. 5 m per driver)			
Number of LED's	300 (60 per metre)			
Light output (Lumen)	1440	1800	408	516
Lumen per Watt (Efficacy)	60	75	17	22
Colour rendering index (CRI)	65	75	–	
Finish	LED board white			
Packing	5 m roll with 300 LED's			
Cable length	2.0 m			



Every LED strip light is supplied with 2 m mains lead (833.74.718).



833.74.718: Mains lead 2 m with 12 V plug system and clip for LED strip light



833.74.719: Interconnecting lead 500 mm with clip for LED strip light



833.74.720: Clip connector for LED strip light



Installation: Self-adhesive



Driver page 33  
Aluminium profile page 30

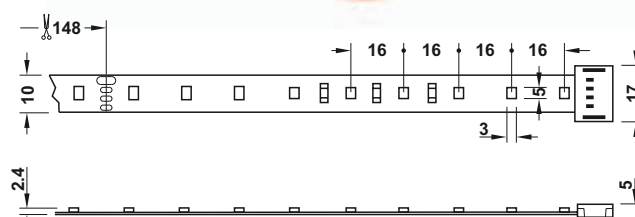
3200 K	6500 K	Blue	Red	120°	Distance
200 lx	240 lx	190 lx	180 lx		250 mm
70 lx	82 lx	64 lx	62 lx		500 mm
32 lx	44 lx	29 lx	28 lx		750 mm
20 lx	26 lx	18 lx	16 lx		1000 mm



## 5 m LED strip light with 300 RGB LED's



Compact light energy in the form of 300 RGB light emitting diodes on a 5-metre strip: This is the LED 2014 colour changing strip light, which is ideally suited for uniform background lighting of furniture and furnishings because of the close grouping of the LED's.



<b>Cat. No.</b>	<b>833.73.370</b>
Light colour (K)	RGB
Length (mm)	5000
Width (mm)	10
Height (mm)	2.5
Wattage (W)	24 (max. 5 m per driver)
Number of LED's	300 (60 per metre)
Light output (Lumen)	816
Lumen per Watt (Efficacy)	34
Colour rendering index (CRI)	-
Finish	LED board white
Packing	5 m roll with 300 LED's
Cable length	2.0 m



Cat. No. 833.74.700  
colour mixer with remote control

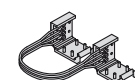


Cat. No. 833.74.741  
9-way RGB distributor

Every LED strip light is supplied with 2 m mains lead (833.74.717).



833.74.717: Mains lead 2 m with 12 V plug system and clip for LED strip light



833.74.727: Interconnecting lead 500 mm with clip for LED strip light

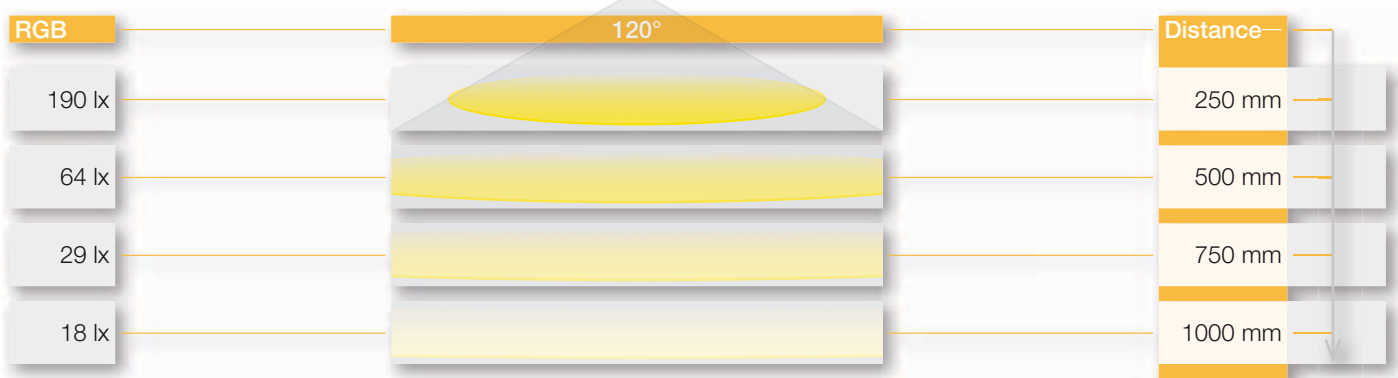


833.74.728: Clip connector for LED strip light

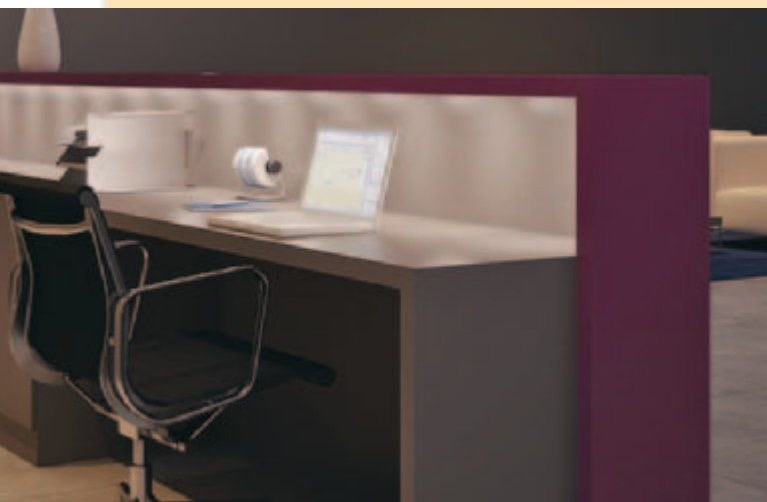


Driver page 33

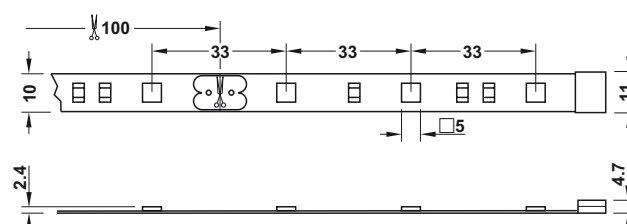
**!** Installation: Self-adhesive  
Cannot be dimmed.



## 5 m LED strip light with 150 LED's



The 5 metre LED 2015 strip light is ideal for all applications involving direct lighting of furniture and furnishings. Flexible processing is guaranteed because individual shortening is possible.



## Cat. No.

Light colour (K)

Length (mm)

Width (mm)

Height (mm)

Wattage (W)

Number of LED's

Light output (Lumen)

Lumen per Watt  
(Efficacy)Colour rendering index  
(CRI)

Finish

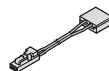
Packing

Cable length

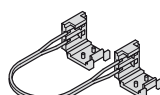
833.73.***			
400	410	420	430
3200 (warm white)	6500 (cool white)	Blue	Red
5000			
10			
2.5			
40 (max. 3.8 m per driver)			
150 (30 per metre)			
2412	2808	504	612
67	78	14	17
67	78	–	
LED board white			
5 m roll with 150 LED's			
2.0 m			



Every LED strip light is supplied with 2 m mains lead (833.74.718).



833.74.718: Mains lead 2 m with 12 V plug system and clip for LED strip light



833.74.719: Interconnecting lead 500 mm with clip for LED strip light



833.74.720: Clip connector for LED strip light



Installation: Self-adhesive



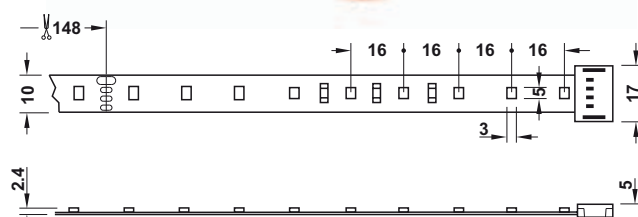
Driver page 33  
Aluminium profile page 30

3200 K	6500 K	Blue	Red	120°	Distance
400 lx	500 lx	380 lx	360 lx		250 mm
140 lx	165 lx	135 lx	124 lx		500 mm
70 lx	88 lx	60 lx	58 lx		750 mm
40 lx	50 lx	36 lx	32 lx		1000 mm

## 5 m LED strip light with 150 RGB LED's



Extremely bright light sources with changing colours are often in demand for lighting equipment items and furniture. The LED 2016 colour changing strip light meets these requirements easily.



<b>Cat. No.</b>	<b>833.73.450</b>
Light colour (K)	RGB
Length (mm)	5000
Width (mm)	12
Height (mm)	2.5
Wattage (W)	36 (max. 3.8 m per driver)
Number of LED's	150 (30 per metre)
Light output (Lumen)	1224
Lumen per Watt (Efficacy)	34
Colour rendering index (CRI)	—
Finish	LED board white
Packing	5 m roll with 150 LED's
Cable length	2.0 m



Cat. No. 833.74.700  
colour mixer with remote control

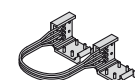


Cat. No. 833.74.741  
9-way RGB distributor

Every LED strip light is supplied with 2 m mains lead (833.74.717).



833.74.717: Mains lead 2 m with 12 V plug system and clip for LED strip light



833.74.727: Interconnecting lead 500 mm with clip for LED strip light



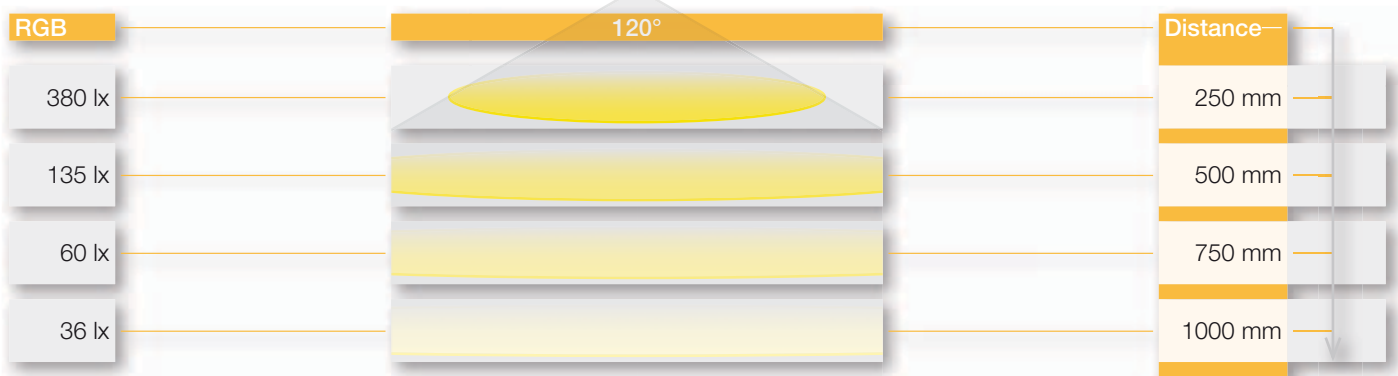
833.74.728: Clip connector for LED strip light



Installation: Self-adhesive  
Cannot be dimmed.

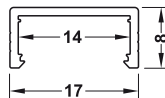


Driver page 33



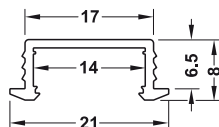
## Aluminium profile for LED strip lights

<b>Cat. No.</b>	<b>833.74.729</b>
Length (mm)	2500
Width (mm)	17
Height (mm)	8
Application	For mounting as down light with frosted cover
Finish	Aluminium, silver coloured anodized
Packing	1 piece



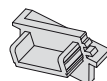
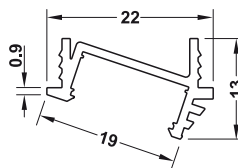
Cat. No. 833.74.730  
end cap, plastic silver coloured  
anodized, 2 pieces

<b>Cat. No.</b>	<b>833.72.705</b>
Length (mm)	2500
Width (mm)	17
Height (mm)	8
Application	For recessed installation with frosted cover
Finish	Aluminium, silver coloured anodized
Packing	1 piece



Cat. No. 833.72.709  
end cap, plastic silver coloured  
anodized, 2 pieces

<b>Cat. No.</b>	<b>833.72.715</b>
Length (mm)	2500
Width (mm)	18
Height (mm)	13
Application	For angled installation with frosted cover
Finish	Aluminium, silver coloured anodized
Packing	1 piece



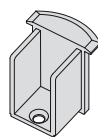
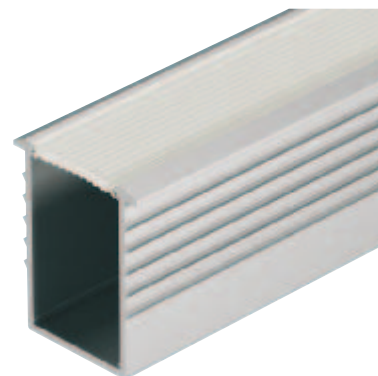
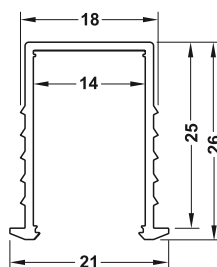
Cat. No. 833.72.719  
end cap, plastic silver coloured  
anodized, 2 pieces



The cut to size aluminium profiles that are depicted are only suitable for the LED strip lights LED 2013 and LED 2015. Insulating strip is provided for all profiles.

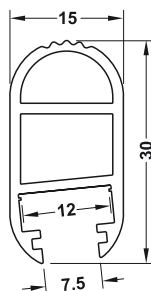
## Aluminium profile for LED strip lights

<b>Cat. No.</b>	<b>833.72.725</b>
Length (mm)	2500
Width (mm)	17
Height (mm)	26
Application	For recessed installation, 25 mm deep, with mik coloured cover
Finish	Aluminium, silver coloured anodized
Packing	1 piece



Cat. No. 833.72.729  
end cap, plastic silver coloured  
anodized, 2 pieces

<b>Cat. No.</b>	<b>833.72.735</b>
Length (mm)	2500
Width (mm)	15
Height (mm)	30
Application	Rail end support with frosted cover
Finish	Aluminium, silver coloured anodized
Packing	1 piece



Cat. No. 803.33.758  
oval rail end support (for screw fixing),  
plastic, silver coloured anodized,  
2 pieces



Cat. No. 802.07.200  
rail centre support



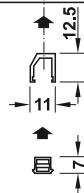
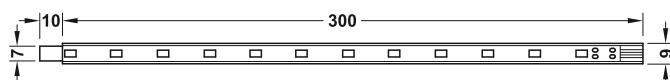
The cut to size aluminium profiles that are depicted are only suitable for the LED strip lights LED 2013 and LED 2015. Insulating strip is provided for all profiles.



## LED strip light, 3-piece set



The LED 2017 strip light set provides a wide range of decorative usage options with its comprehensive range of provided accessories, e. g. shelf lighting, plinth lighting, background lighting etc.. The set is also perfectly suitable for retrofitting in existing furniture.



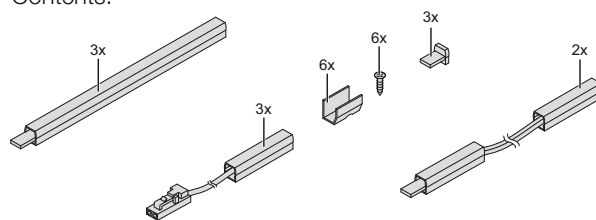
## Cat. No.

833.73.\*\*\*

	080	070
Light colour (K)	6400 (cool white)	3000 (warm white)
Length (mm)	300 per strip light	
Width (mm)	8	
Height (mm)	7	
Wattage (W)	0.72 x 3 = 2.16	
Number of LED's	12 x 3	
Light output (Lumen)	52 x 3	50 x 3
Lumen per Watt (Efficacy)	72	70
Colour rendering index (CRI)	60	65
Finish	Transparent plastic with double-sided adhesive tape	
Packing	3 LED strip lights, 6 clips, 6 double-sided adhesive strips, 2 interconnecting leads, 3 mains leads and screws	
Cable length	2.0 m	

Max. 12 connections.

Contents:



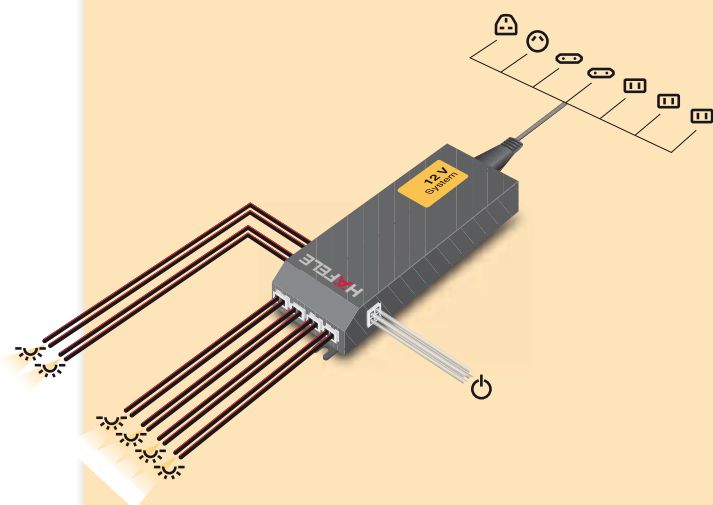
Driver

page 33

6400 K	3000 K	120°	Distance
70 lx	36 lx		250 mm
35 lx	17 lx		500 mm
20 lx	11 lx		750 mm
12 lx	7 lx		1000 mm



## Constant voltage 12 V



The driver is the heart of the Loox system, and is suitable for connecting to all of the world's power systems. It has an integrated switching function and connections for all of the most popular types of switch.



Cat. No.	833.74.***	
	900	901
Length (mm)	155	165
Width (mm)	45	50
Height (mm)	20	28
Wattage (W)	0.5 – 15	0.5 – 30
Input voltage	100 – 240 V; 50 – 60 Hz	
Output voltage	DC 12 V	
Degree of protection	IP 20	
Number of slots	6 slots for 12 V lights, 1 slot for switch,	
Packing	1 slot for country-specific mains lead	
	1 piece with mounting accessories	



Country-specific mains lead (2 m) with small appliance plug:



Cat. No. 833.89.000: British plug



Cat. No. 833.89.001: Australian plug



Cat. No. 833.89.002:  
European plug



Cat. No. 833.89.003:  
North American plug



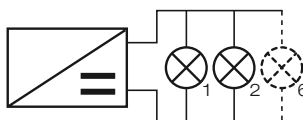
Cat. No. 833.89.004: Japanese plug



Cat. No. 833.89.005: Chinese plug



Cat. No. 833.89.006: Korean plug



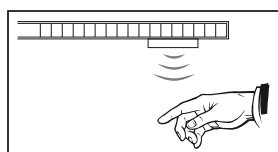
Cat. No. 833.74.900  
 $\otimes_1 + \otimes_2 + \dots + \otimes_6 < 15 \text{ W}$

Cat. No. 833.74.901  
 $\otimes_1 + \otimes_2 + \dots + \otimes_6 < 30 \text{ W}$



Mains leads	page 35
Switches	page 34
Extension leads	page 35

## Sensor switch

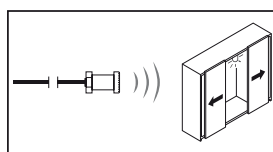


Touchless  
on/off switching

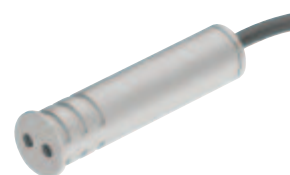


<b>Cat. No.</b>	<b>833.89.040</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Sensor range (mm)	0 – 80
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Door sensor switch

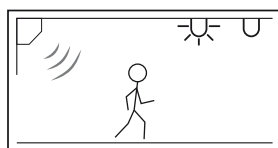


Door open = light on  
Door closed = light off

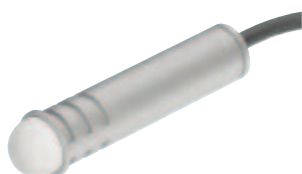


<b>Cat. No.</b>	<b>833.89.041</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Sensor range (mm)	0 – 80
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Motion detector

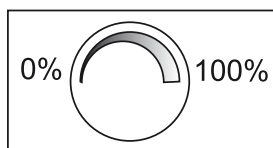


Automatic  
on/off switching

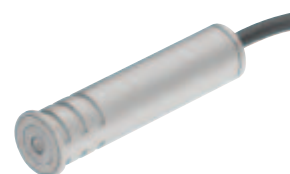


<b>Cat. No.</b>	<b>833.89.042</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Sensor range (mm)	0 – 3000
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Dimmer

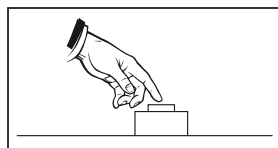


Touch switching on and off  
and adjusting the light output

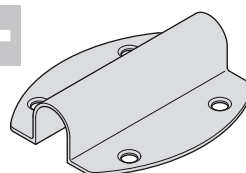


<b>Cat. No.</b>	<b>833.89.043</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Push switch










<b>Cat. No.</b>	<b>833.89.044</b>
Diameter (mm)	13
Length (mm)	30
Wattage (W)	0.3 – 30
Finish	Plastic black
Packing	1 piece
Cable length	2.0 m



**Housing for  
surface mounting**

<b>Cat. No.</b>	<b>833.89.049</b>
Length (mm)	57
Width (mm)	50
Height (mm)	20
Finish	Plastic silver coloured
Packing	1 piece with mounting accessories

## Mains leads

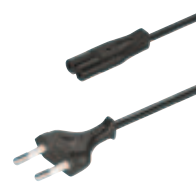
Cat. No.	833.89.***						
	000	001	002	003	004	005	006
Plug design							
Designation	UK	AU	EU	US	JP	CN	KR
Voltage (V)	250	250	250	120	100	250	250
Length (mm)	2000						
Finish	Plastic black						
Packing	1 piece						



833.89.000 UK



833.89.001 AU



833.89.002 EU



833.89.003 US



833.89.004 JP



833.89.005 CN



833.89.006 KR

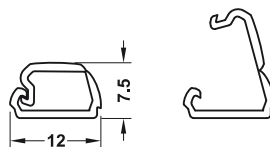
## Extension leads, 12 V

Cat. No.	833.74.***		
	724	725	726
Length (mm)	500	1000	2000
Application	Extension lead, 12 V system		
Packing	1 piece		



## Cable channels

Cat. No.	833.89.***		
	013	023	033
Length (mm)	2500		
Width (mm)	12		
Height (mm)	7.3		
Application	For concealing visible cables in furniture and cabinets		
Finish	White, RAL 9010	Brown, RAL 8007	Black, RAL 9005
Packing	1 piece with self adhesive tape		





LED 3001 — Page 37



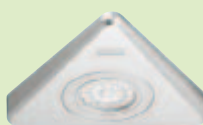
LED 3002 — Page 38



LED 3004 — Page 39



LED 3005 — Page 40



LED 3003 — Page 41



LED 3006 — Page 42

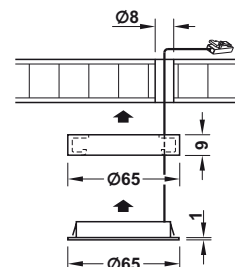
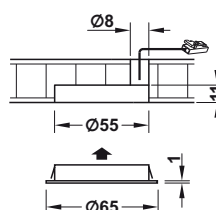


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Switches	Page 44
Leads	Page 45

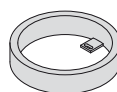
## Recess mounted light



Display cabinets and shelves reveal their full aesthetics if they are put in the right light.  
The LED 3001 can be surface or recessed mounted.  
Two light colours can be used for design purposes.



Cat. No.	833.75.***	
	000	010
Light colour (K)	5000 (cool white)	3200 (warm white)
Diameter (mm)	65	
Height (mm)	11	
Wattage (W)	1.7	
Number of LED's	24	
Light output (Lumen)	67	55
Lumen per Watt (Efficacy)	41	33
Colour rendering index (CRI)	80 – 90	80 – 90
Finish	Aluminium, silver coloured anodized, with clear glass	
Packing	1 piece	
Cable length	2.5 m	



833.77.710: Surface mounted ring  
silver coloured



Driver

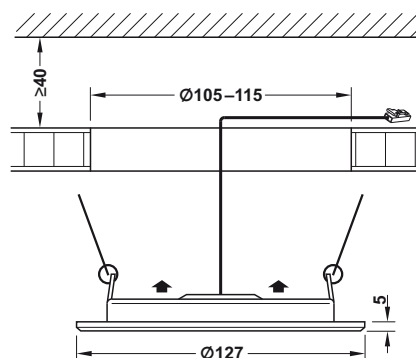
page 43

5000 K	3200 K	90°	Distance
2000 lx	1890 lx		250 mm
620 lx	590 lx		500 mm
280 lx	256 lx		750 mm
105 lx	98 lx		1000 mm

## Recess mounted light



The LED 3002 recess mounted light is especially for suspended panels and is appealing because of its extremely high light intensity. Other ideal areas of application are the illumination of wall units, display cabinets and shelving.



Cat. No.	833.75.***	
	020	030
Light colour (K)	5000 (cool white)	3200 (warm white)
Diameter (mm)	127	
Height (mm)	18	
Wattage (W)	4.4	
Number of LED's	60	
Light output (Lumen)	168	142
Lumen per Watt (Efficacy)	38	32
Colour rendering index (CRI)	80 – 90	
Finish	Aluminium, silver coloured anodized, with clear glass	
Packing	1 piece	
Cable length	2.0 m	



Cannot be dimmed.



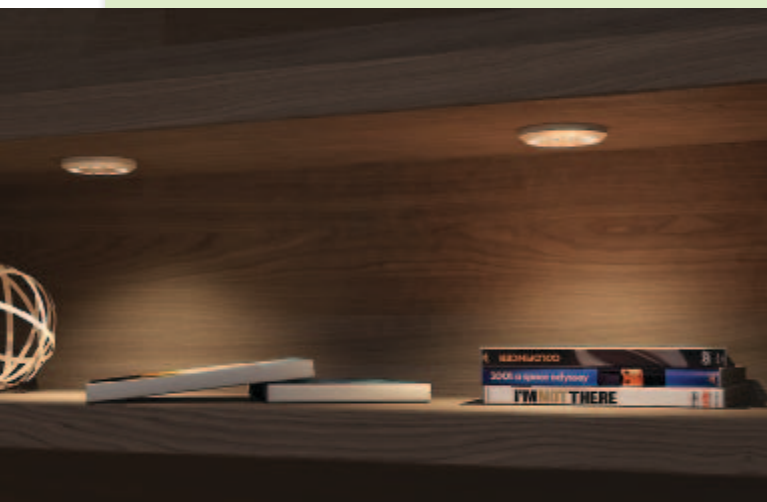
Driver

page 43

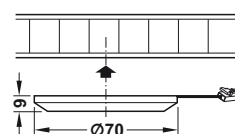
5000 K	3200 K	90°	Distance
1800 lx	1546 lx		250 mm
850 lx	554 lx		500 mm
450 lx	310 lx		750 mm
260 lx	190 lx		1000 mm



## Down light



Visually appealing and with a unique design: The LED 3004 down light is the highlight for decorative lighting in living area furniture. 12 LED's provide pleasant and accurately-directed lighting.

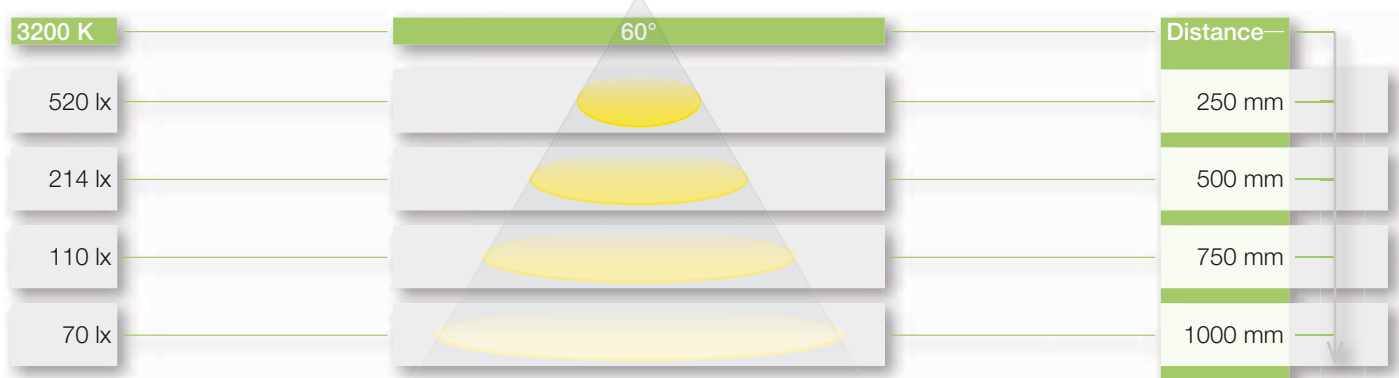


<b>Cat. No.</b>	<b>833.76.021</b>
Light colour (K)	3200 (warm white)
Diameter (mm)	70
Height (mm)	9
Wattage (W)	0.8
Number of LED's	12
Light output (Lumen)	30
Lumen per Watt (Efficacy)	38
Colour rendering index (CRI)	80 – 90
Finish	Plastic, nickel plated matt
Packing	1 piece with mounting accessories
Cable length	2.0 m

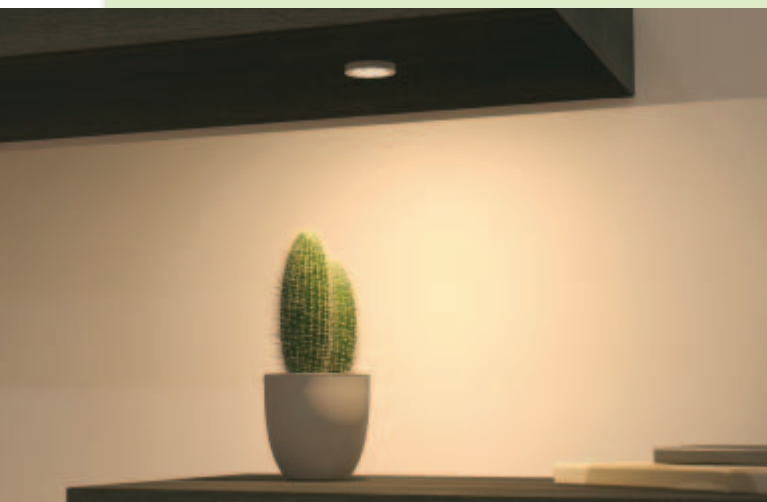


Driver

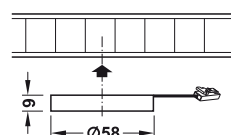
page 43



## Down light



The LED 3005 is the proof that down lights can be decorative, space-saving and perfect. The striking appearance stylishly emphasizes the most important aspects of furniture items and furnishings in the living area.

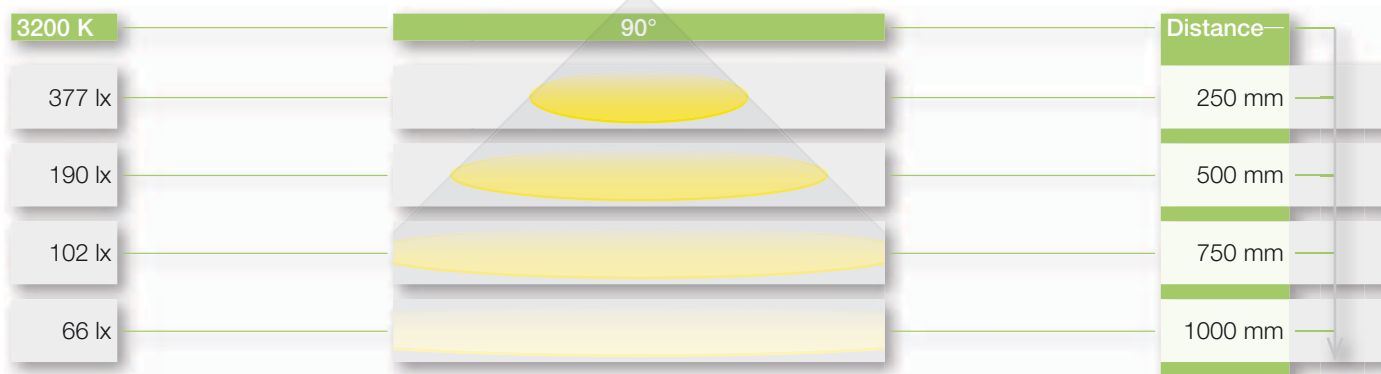


<b>Cat. No.</b>	<b>833.76.020</b>
Light colour (K)	3200 (warm white)
Diameter (mm)	58
Height (mm)	9
Wattage (W)	0.8
Number of LED's	12
Light output (Lumen)	28
Lumen per Watt (Efficacy)	35
Colour rendering index (CRI)	80 – 90
Finish	Plastic, nickel plated matt
Packing	1 piece
Cable length	2.0 m



Driver

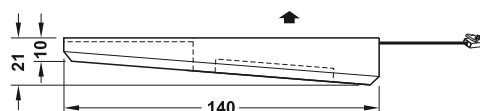
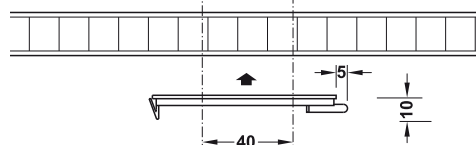
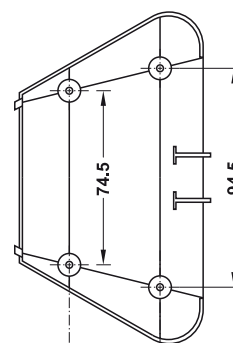
page 43



## Down light, 3-piece set



The LED 3003 down light set with its trio of lights in a triangular design introduces new perspectives into furnishings. All of the lights in the set can be conveniently operated without contact using an integrated sensor switch.



<b>Cat. No.</b>	<b>833.76.000</b>
Light colour (K)	3200 (warm white)
Length (mm)	145
Width (mm)	147
Height (mm)	21
Wattage (W)	5.5
Number of LED's	24 x 3
Light output (Lumen)	57 x 3
Lumen per Watt (Efficacy)	34.5
Colour rendering index (CRI)	80 – 90
Finish	Plastic, silver coloured anodized
Packing	3-piece set consisting of: 1 Master light with sensor switch and 2 subsequent lights with mounting accessories
Cable length	2.0 m

Cannot be dimmed.

Driver page 43

3200 K

90°

Distance

1890 lx

250 mm

590 lx

500 mm

256 lx

750 mm

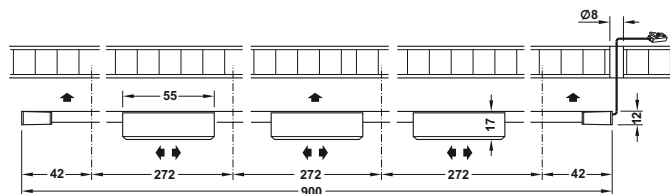
98 lx

1000 mm

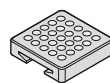
## Down light



Working areas and representative areas must both be illuminated in the best possible way. The LED 3006 conductor rail light is the solution that makes it possible to react to spatial changes – the lights are easy to move without the need for tools.



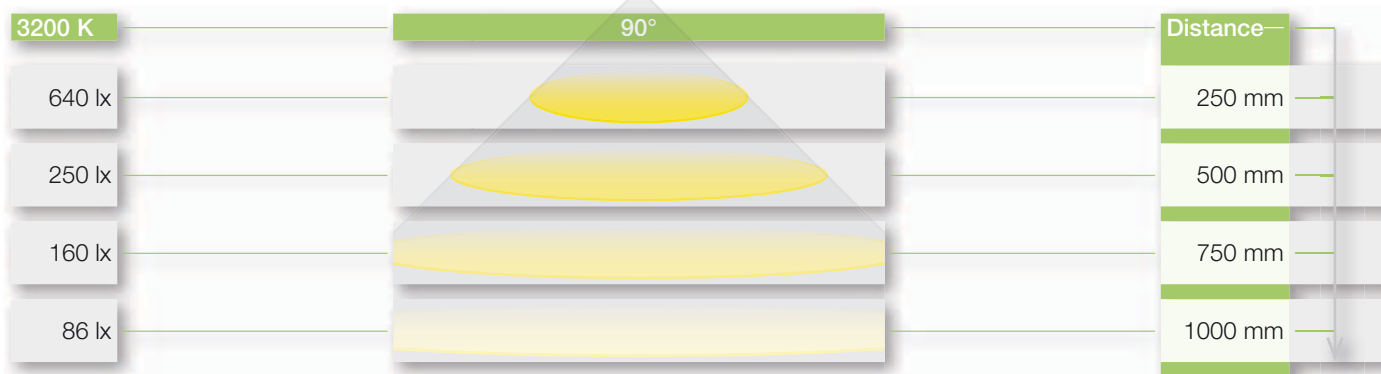
<b>Cat. No.</b>	<b>833.76.040</b>
Light colour (K)	3200 (warm white)
Length (mm)	900
Width (mm)	59
Height (mm)	15
Wattage (W)	1.8 x 3 = 5.4
Number of LED's	25 x 3
Light output (Lumen)	280
Lumen per Watt (Efficacy)	42
Colour rendering index (CRI)	80 – 90
Finish	Aluminium, silver coloured anodized
Packing	1 piece with mounting accessories
Cable length	2.0 m



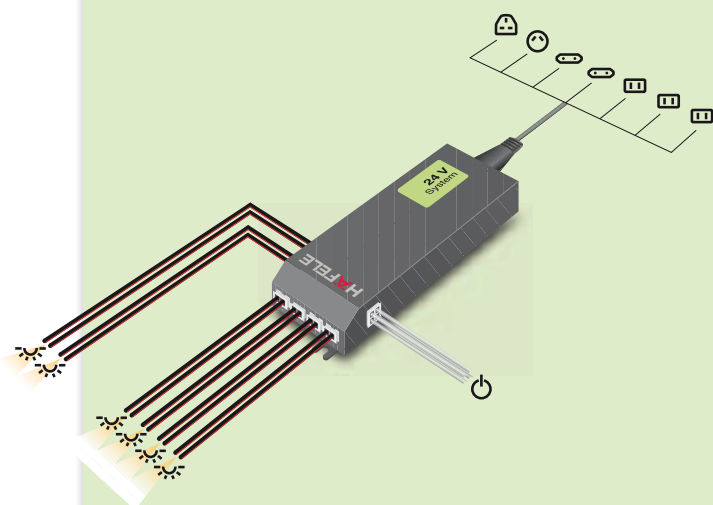
833.76.060: Single light,  
dimensions: 55 x 55 x 15 mm (L x W x H),  
wattage: 1.8 W



Driver page 43



## Constant voltage 24 V



The heart of the 24 volt system in the Loox product range is the driver, which is suitable for all of the world's power systems. The integrated switching function and connections for all of the most popular types of switch make it possible to make future changes or additions in a flash.



Cat. No.	833.77.***	
	900	901
Length (mm)	155	165
Width (mm)	45	50
Height (mm)	20	28
Wattage (W)	0.5 – 15	0.5 – 30
Input voltage	100 – 240 V; 50 – 60 Hz	
Output voltage	DC 24 V	
Degree of protection	IP 20	
Number of slots	6 slots for 24 V lights, 1 slot for switch,	
Packing	1 slot for country-specific mains lead	
	1 piece with mounting accessories	



Country-specific mains lead (2 m) with small appliance plug:



Cat. No. 833.89.000: British plug



Cat. No. 833.89.001: Australian plug



Cat. No. 833.89.002:  
European plug



Cat. No. 833.89.003:  
North American plug



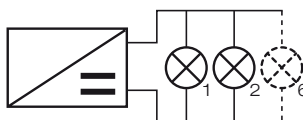
Cat. No. 833.89.004: Japanese plug



Cat. No. 833.89.005: Chinese plug



Cat. No. 833.89.006: Korean plug



Cat. No. 833.77.900

$\otimes_1 + \otimes_2 + \dots + \otimes_6 < 15 \text{ W}$

Cat. No. 833.77.901

$\otimes_1 + \otimes_2 + \dots + \otimes_6 < 30 \text{ W}$



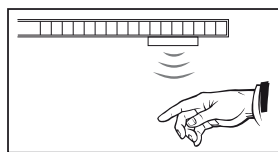
Mains leads ————— page 45

Switches ————— page 44

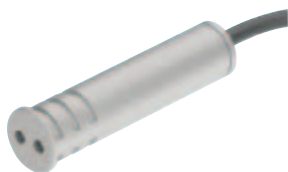
Extension leads ————— page 45



## Sensor switch

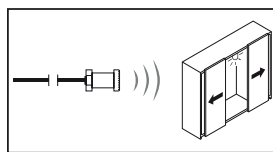


Touchless  
on/off switching

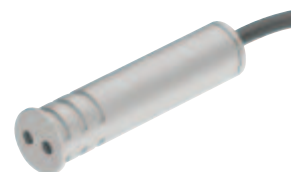


<b>Cat. No.</b>	<b>833.89.040</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Sensor range (mm)	0 – 80
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Door sensor switch

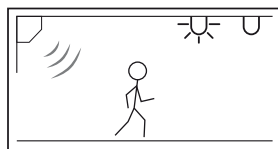


Door open = light on  
Door closed = light off



<b>Cat. No.</b>	<b>833.89.041</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Sensor range (mm)	0 – 80
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Motion detector

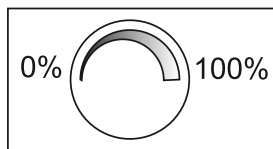


Automatic  
on/off switching

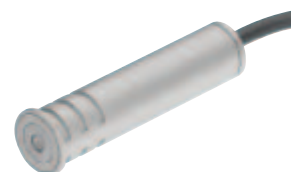


<b>Cat. No.</b>	<b>833.89.042</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Sensor range (mm)	0 – 3000
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Dimmer

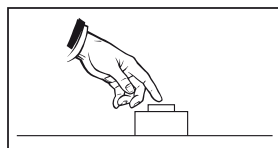


Touch switching on and off  
and adjusting the light output

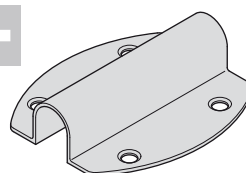


<b>Cat. No.</b>	<b>833.89.043</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Push switch










<b>Cat. No.</b>	<b>833.89.044</b>
Diameter (mm)	13
Length (mm)	30
Wattage (W)	0.3 – 30
Finish	Plastic black
Packing	1 piece
Cable length	2.0 m



**Housing for  
surface mounting**

<b>Cat. No.</b>	<b>833.89.049</b>
Length (mm)	57
Width (mm)	50
Height (mm)	20
Finish	Plastic silver coloured
Packing	1 piece with mounting accessories

## Mains leads

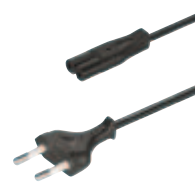
Cat. No.	833.89.***						
	000	001	002	003	004	005	006
Plug design							
Designation	UK	AU	EU	US	JP	CN	KR
Voltage (V)	250	250	250	120	100	250	250
Length (mm)	2000						
Finish	Plastic black						
Packing	1 piece						



833.89.000 UK



833.89.001 AU



833.89.002 EU



833.89.003 US



833.89.004 JP



833.89.005 CN



833.89.006 KR

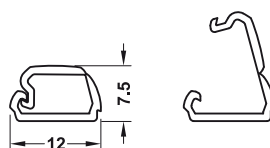
## Extension leads, 24 V

Cat. No.	833.77.***		
	706	707	708
Length (mm)	500	1000	2000
Application	Extension lead, 24 V system		
Packing	1 piece		



## Cable channels

Cat. No.	833.89.***		
	013	023	033
Length (mm)	2500		
Width (mm)	12		
Height (mm)	7.3		
Application	For concealing visible cables in furniture and cabinets		
Finish	White, RAL 9010	Brown, RAL 8007	Black, RAL 9005
Packing	1 piece with self adhesive tape		





LED 4009 — Page 47



LED 4005 — Page 48



LED 4004 — Page 49



LED 4003 — Page 50



LED 4007 — Page 51

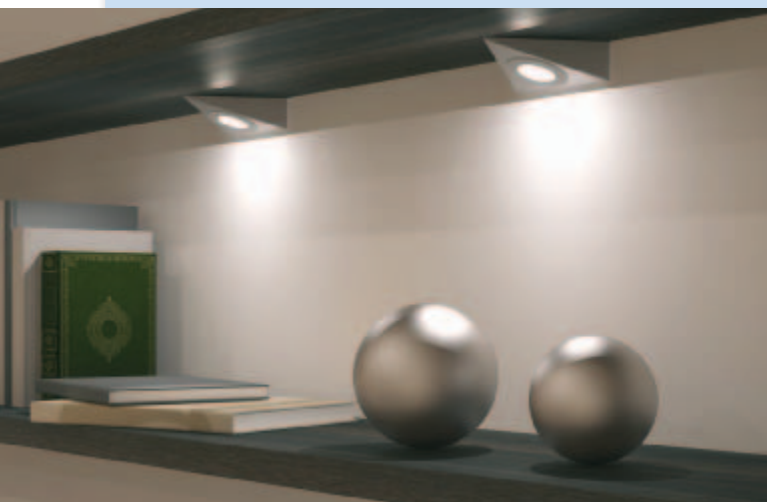


LED 4006 — Page 52

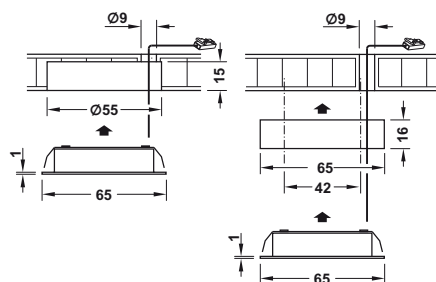


Driver	Page 53
Switches	Page 54
Leads	Page 55

# Recess mounted light with 3 LED's



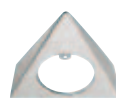
The LED 4009 recess mounted light has three extra-powerful LED's and therefore generates powerful, directed light. This light can therefore be deployed universally in any furnishings as a functional light. Three different attachment options are available for design purposes.



Cat. No.	833.78.***	
	140	150
Light colour (K)	3000 (warm white)	6000 (cool white)
Diameter (mm)	65	
Height (mm)	15	
Wattage (W)	3	
Number of LED's	3	
Light output (Lumen)	120	140
Lumen per Watt (Efficacy)	40	47
Colour rendering index (CRI)	85	75
Finish	Nickel matt. aluminium	
Packing	1 piece	
Cable length	2.0 m	



Cat. No. 833.80.710  
surface mounted ring,  
65 x 16 mm (Ø x H)



Cat. No. 833.80.711  
triangular surface mounted housing,  
135 x 118 x 40 mm (L x W x H)



Driver

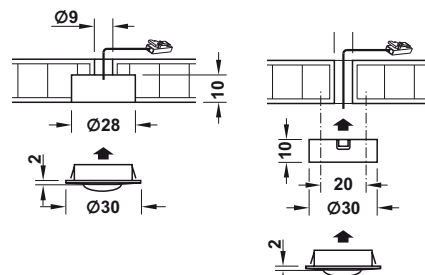
page 53

3000 K	6000 K	160°	Abstand
309 lx	400 lx		250 mm
97 lx	140 lx		500 mm
46 lx	80 lx		750 mm
27 lx	40 lx		1000 mm

## Recess mounted light, 1 W, round w. lens



The LED 4005 can be used as a recess mounted or down light. The extremely small and flat design makes the light easy to integrate in the furniture design. The light spot is suitable for decoratively illuminating objects in furniture. The integrated lens also centres and intensifies the light spot.

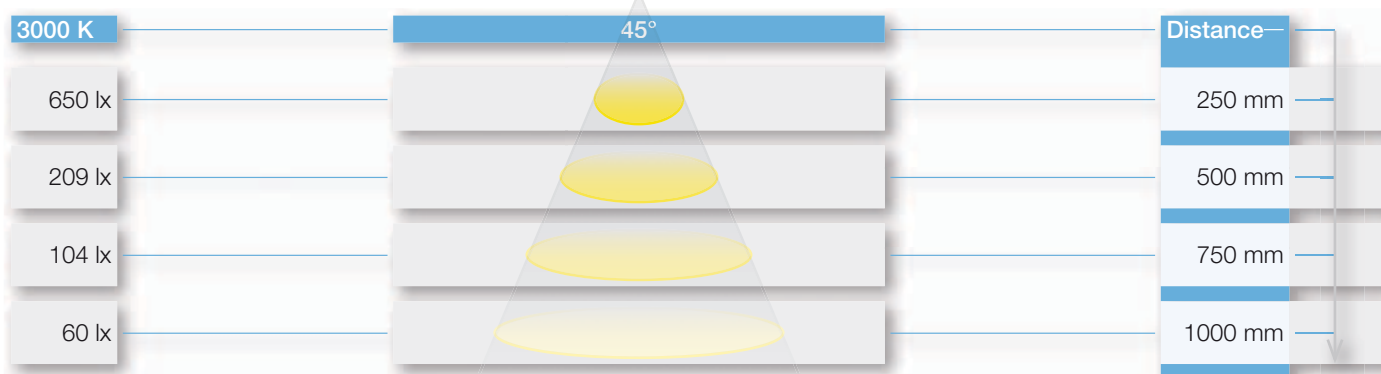


<b>Cat. No.</b>	<b>833.78.100</b>
Light colour (K)	3000 (warm white)
Diameter (mm)	30
Height (mm)	12
Wattage (W)	1
Number of LED's	1
Light output (Lumen)	53
Lumen per Watt (Efficacy)	53
Colour rendering index (CRI)	87
Finish	Plastic, silver coloured anodized
Packing	3 pieces with mounting accessories
Cable length	2.0 m



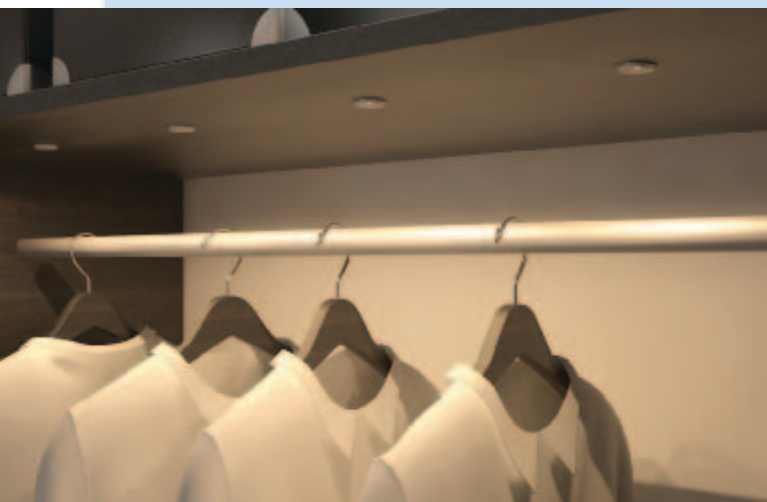
Driver

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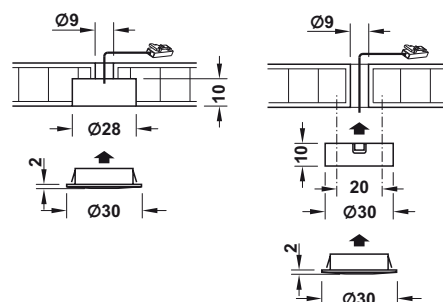




## Recess mounted light, 1 W, round



Extremely small and slimline design – and no lack of light intensity: The beam of the round version of the LED 4004 puts objects firmly in the spotlight in the recess mounted and down light area.

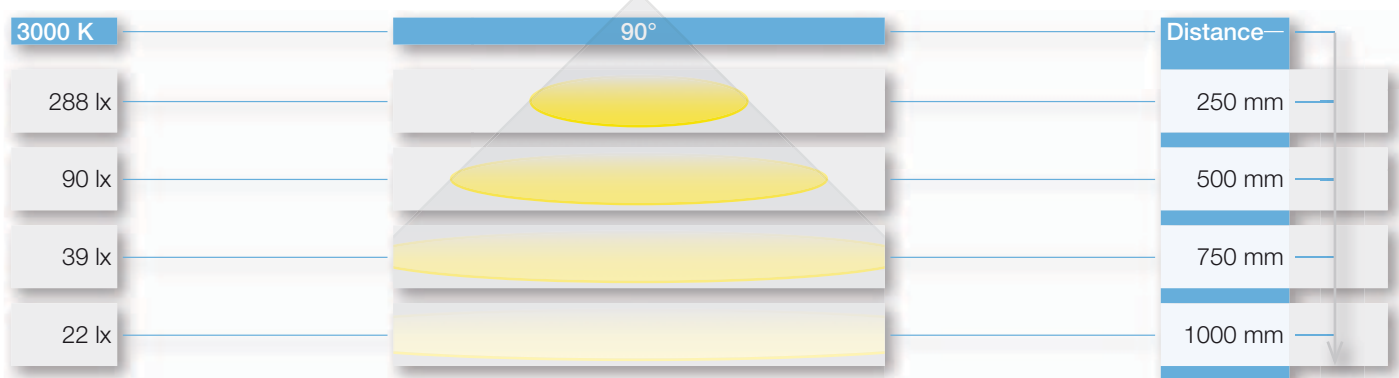


<b>Cat. No.</b>	<b>833.78.080</b>
Light colour (K)	3000 (warm white)
Diameter (mm)	30
Height (mm)	12
Wattage (W)	1
Number of LED's	1
Light output (Lumen)	65
Lumen per Watt (Efficacy)	65
Colour rendering index (CRI)	85
Finish	Plastic, silver coloured anodized
Packing	3 pieces with mounting accessories
Cable length	2.0 m



Driver

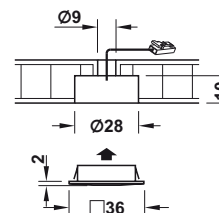
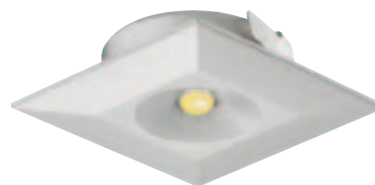
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## Recess mounted light, 1 W, square



The extremely small and flat design of the LED 4003 makes it easy to integrate in the furniture design. The light spot can be pointed upwards or downwards, and is suitable for illuminating objects in furniture. Depending on the installation situation, this light can also put the emphasis on furniture as an effective sidelight.

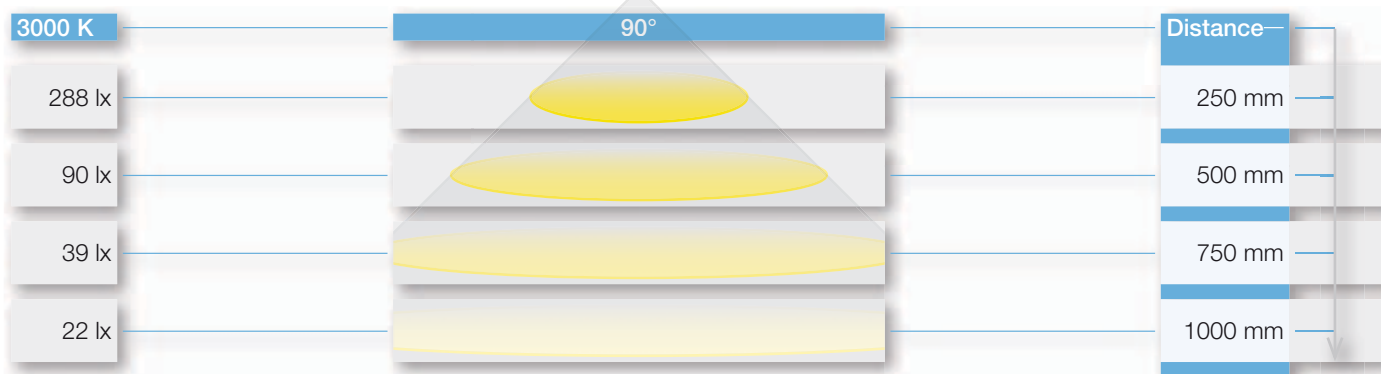


<b>Cat. No.</b>	<b>833.78.040</b>
Light colour (K)	3000 (warm white)
Length (mm)	34
Width (mm)	34
Height (mm)	12
Wattage (W)	1
Number of LED's	1
Light output (Lumen)	65
Lumen per Watt (Efficacy)	65
Colour rendering index (CRI)	85
Finish	Plastic, silver coloured anodized
Packing	3 pieces with mounting accessories
Cable length	2.0 m

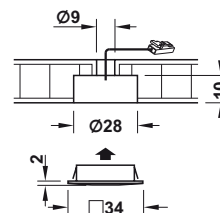
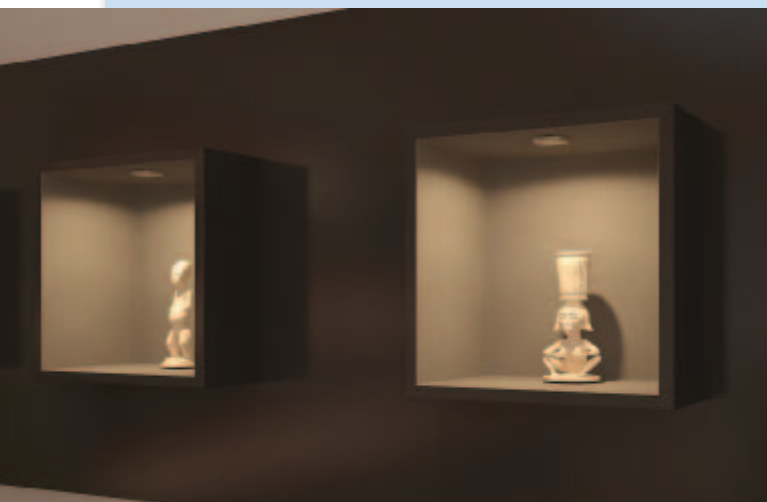


Driver

page 53



## Recess mounted light, 1 W, square



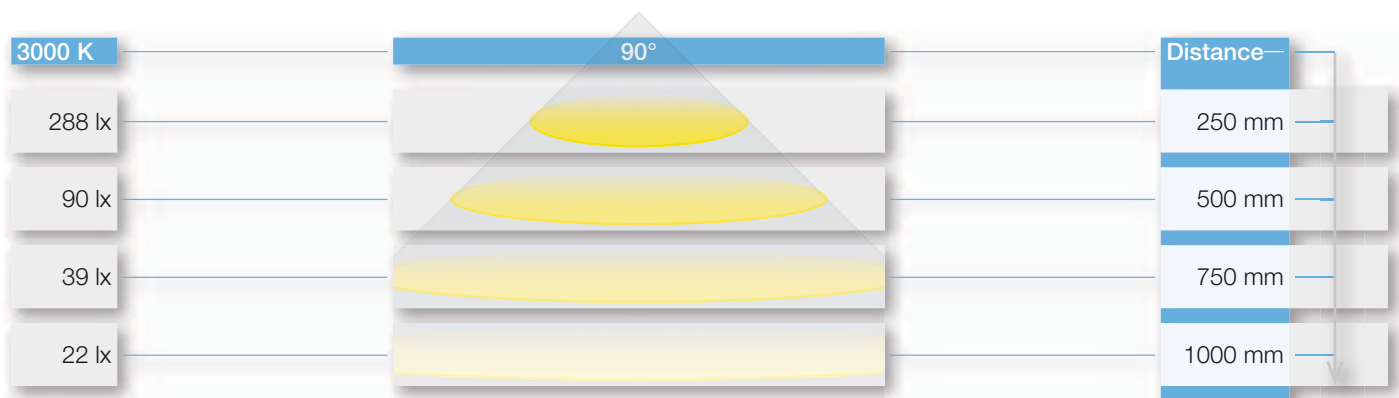
Small, versatile and with flexible alignment: The LED 4007 recess mounted light with its striking square styling is already a design element in itself. The light spot emphasizes the effect of objects in furniture in an extraordinary way.

<b>Cat. No.</b>	<b>833.78.020</b>
Light colour (K)	3000 (warm white)
Length (mm)	34
Width (mm)	34
Height (mm)	12
Wattage (W)	1
Number of LED's	1
Light output (Lumen)	53
Lumen per Watt (Efficacy)	53
Colour rendering index (CRI)	85
Finish	Plastic, silver coloured anodized
Packing	3 pieces with mounting accessories
Cable length	2.0 m



Driver

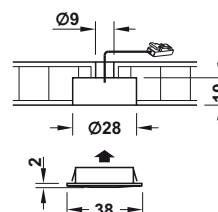
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## Recess mounted light, 1 W, hexagonal



The hexagonal shape is the striking feature of the LED 4006. With its slimline, flat design the light spot can be pointed either up or down depending on the application. Exciting sidelight effects can also be created with this light.



<b>Cat. No.</b>	<b>833.78.000</b>
Light colour (K)	3000 (warm white)
Length (mm)	38
Width (mm)	33
Height (mm)	12
Wattage (W)	1
Number of LED's	1
Light output (Lumen)	65
Lumen per Watt (Efficacy)	65
Colour rendering index (CRI)	85
Finish	Plastic, silver coloured anodized
Packing	3 pieces with mounting accessories
Cable length	2.0 m



Driver

page 53

3000 K

288 lx

90 lx

39 lx

22 lx

90°

Distance

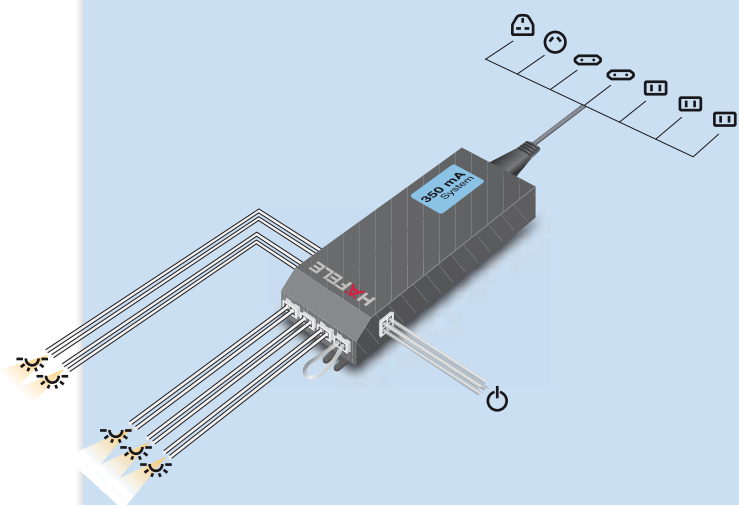
250 mm

500 mm

750 mm

1000 mm

## Constant current 350 mA



Compatibility and flexibility are the keywords as far as the 350 mA driver of the Loox lighting system is concerned. It operates with all of the world's power systems, has an integrated switching function and provides a connection for all of the most popular types of switch.



Cat. No.	833.80.***	
	900	901
Length (mm)	155	165
Width (mm)	45	50
Height (mm)	20	28
Wattage (W)	1 – 4	5 – 10
Input voltage	100 – 240 V; 50 – 60 Hz	
Output current	350 mA	
Degree of protection	IP 20	
Number of slots	4 slots for 350 mA lights,	10 slots for 350 mA lights,
	1 slot for a switch, 1 slot for a country-specific mains lead	
Packing	1 piece with mounting accessories	



Country-specific mains lead (2 m) with small appliance plug:



Cat. No. 833.89.000: British plug



Cat. No. 833.89.001: Australian plug



Cat. No. 833.89.002:  
European plug



Cat. No. 833.89.003:  
North American plug



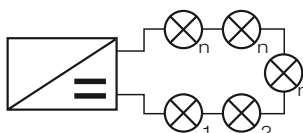
Cat. No. 833.89.004: Japanese plug



Cat. No. 833.89.005: Chinese plug



Cat. No. 833.89.006: Korean plug



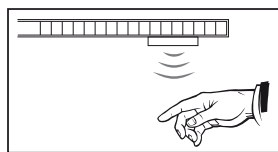
Cat. No. 833.80.900  
 $\otimes_1 + \otimes_2 + \dots + \otimes_n < 4 \text{ W}$

Cat. No. 833.80.901  
 $\otimes_1 + \otimes_2 + \dots + \otimes_n < 10 \text{ W}$

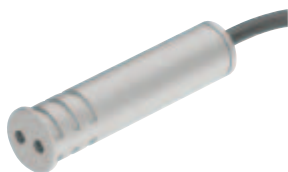


Mains leads	page 55
Switches	page 54
Extension leads	page 55

## Sensor switch

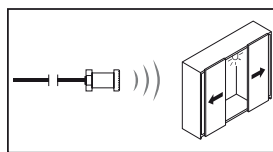


Touchless  
on/off switching

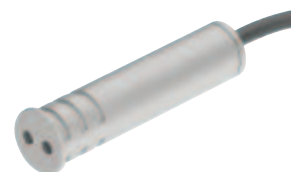


<b>Cat. No.</b>	<b>833.89.040</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Sensor range (mm)	0 – 80
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Door sensor switch

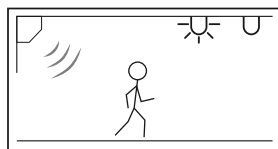


Door open = light on  
Door closed = light off



<b>Cat. No.</b>	<b>833.89.041</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Sensor range (mm)	0 – 80
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Motion detector

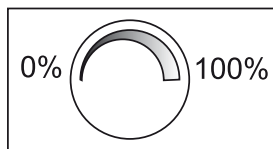


Automatic  
on/off switching

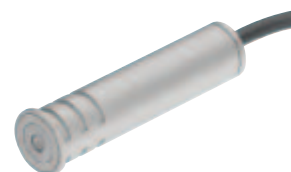


<b>Cat. No.</b>	<b>833.89.042</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Sensor range (mm)	0 – 3000
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Dimmer

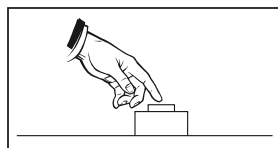


Touch switching on and off  
and adjusting the light output

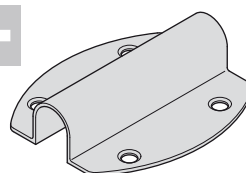


<b>Cat. No.</b>	<b>833.89.043</b>
Diameter (mm)	13
Length (mm)	60
Wattage (W)	0.3 – 30
Finish	Plastic silver coloured
Packing	1 piece
Cable length	2.0 m

## Push switch



<b>Cat. No.</b>	<b>833.89.044</b>
Diameter (mm)	13
Length (mm)	30
Wattage (W)	0.3 – 30
Finish	Plastic black
Packing	1 piece
Cable length	2.0 m










**Housing for  
surface mounting**

<b>Cat. No.</b>	<b>833.89.049</b>
Length (mm)	57
Width (mm)	50
Height (mm)	20
Finish	Plastic silver coloured
Packing	1 piece with mounting accessories



## Mains leads

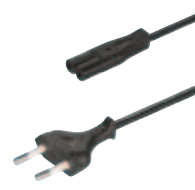
Cat. No.	833.89.***						
	000	001	002	003	004	005	006
Plug design							
Designation	UK	AU	EU	US	JP	CN	KR
Voltage (V)	250	250	250	120	100	250	250
Length (mm)	2000						
Finish	Plastic black						
Packing	1 piece						



833.89.000 UK



833.89.001 AU



833.89.002 EU



833.89.003 US



833.89.004 JP



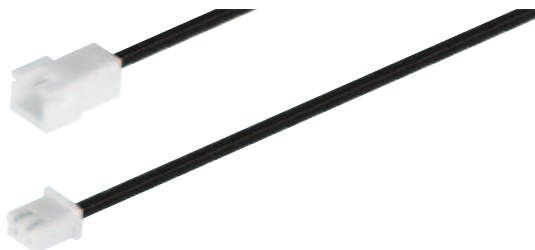
833.89.005 CN



833.89.006 KR

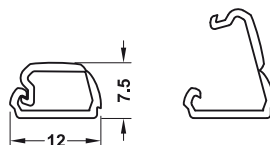
## Extension leads, 350 mA

Cat. No.	833.80.***		
	704	705	706
Length (mm)	500	1000	2000
Application	Extension lead, 350 mA system		
Packing	1 piece		



## Cable channels

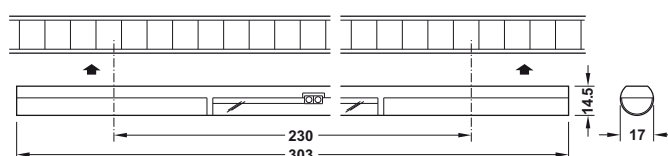
Cat. No.	833.89.***		
	013	023	033
Length (mm)	2500		
Width (mm)	12		
Height (mm)	7.3		
Application	For concealing visible cables in furniture and cabinets		
Finish	White, RAL 9010	Brown, RAL 8007	Black, RAL 9005
Packing	1 piece with self adhesive tape		



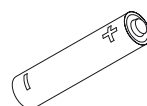
## Battery-operated light with sensor



The LED 9001 battery-operated light is perfect for illuminating drawers, storage spaces and behind front panels. The batteries make the light independent of the mains supply and freely positionable. The integrated sensor allows the light to be activated without contact in any application. The energy-saving mode gives the batteries a long service life.



<b>Cat. No.</b>	<b>833.87.000</b>
Light colour (K)	6400 (cool white)
Length (mm)	303
Diameter (mm)	17
Wattage (W)	0.2
Number of LED's	4
Light output (Lumen)	15
Lumen per Watt (Efficacy)	57
Colour rendering index (CRI)	80
Finish	Plastic silver coloured
Packing	1 piece with mounting accessories



Cat. No. 910.54.986  
micro battery 1.5 V, type AAA

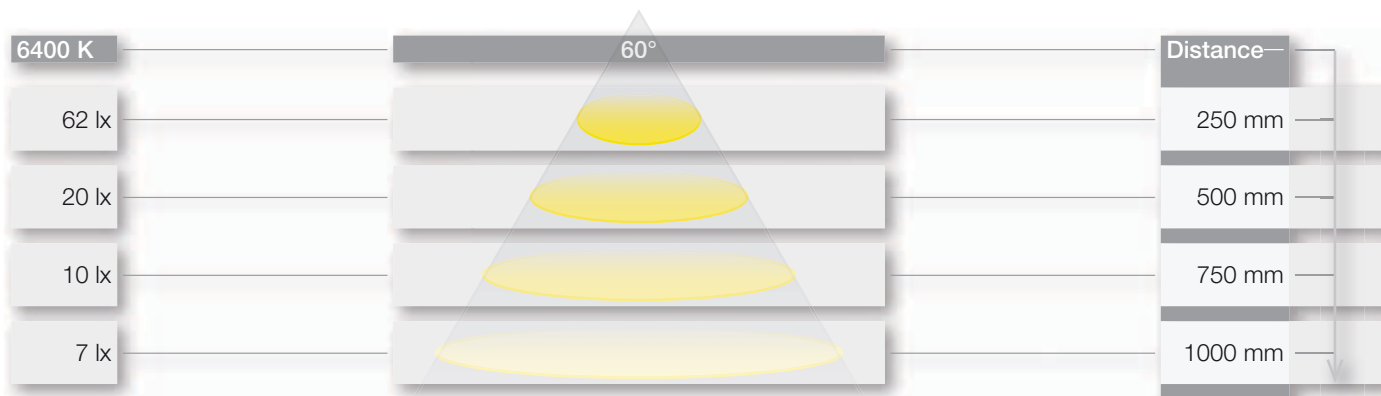
Cat. No. 910.54.976  
rechargeable micro battery 1.5 V,  
type AAA



Selectable switch function:

1. Door sensor switch: Door open, light on – door closed, light off
2. Sensor switch: Active on/off switching

4 type AAA batteries are required.  
Service life: approx. 80 hours per set of batteries.



Loox

HÄFELE

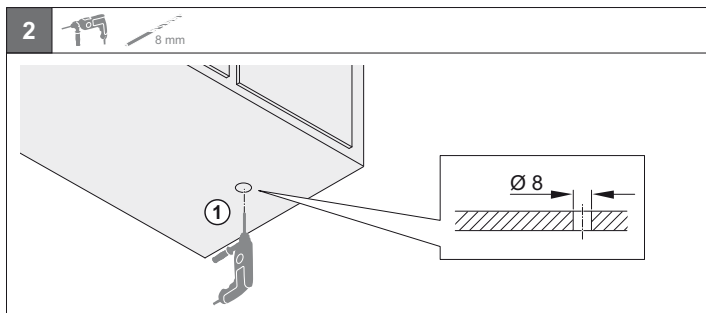
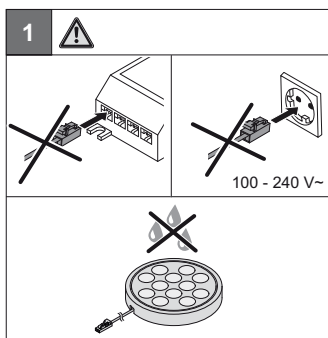
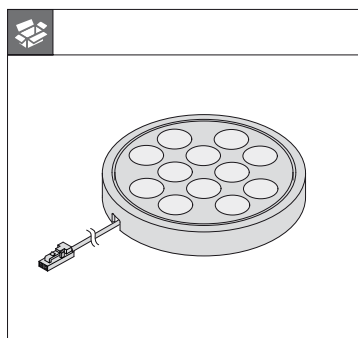


LED 3004  
LED 3005

833.76.020  
833.76.021

24 V System	K	W	T <sub>A</sub>	mm	
833.76.020	3200 K	0.8 W	-20 °C – +60 °C -4 °F – +140 °F	Ø 58 x 8.5	833.77.900
833.76.021				Ø 70 x 9.0	833.77.901

Maße in mm – Dimensions in mm – Medidas en mm



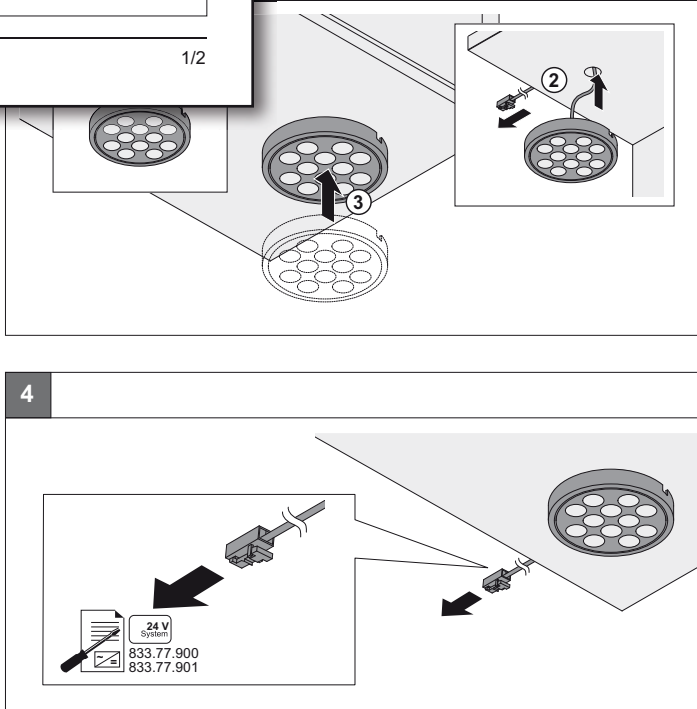
RoHS CE IP20

1/2

Comprehensive  
instructions for all  
components.

Language neutral  
for all markets.

HÄFELE



Maße in mm – Dimensions in mm – Medidas en mm

2010

# Häfele around the globe

- global availability
- global service

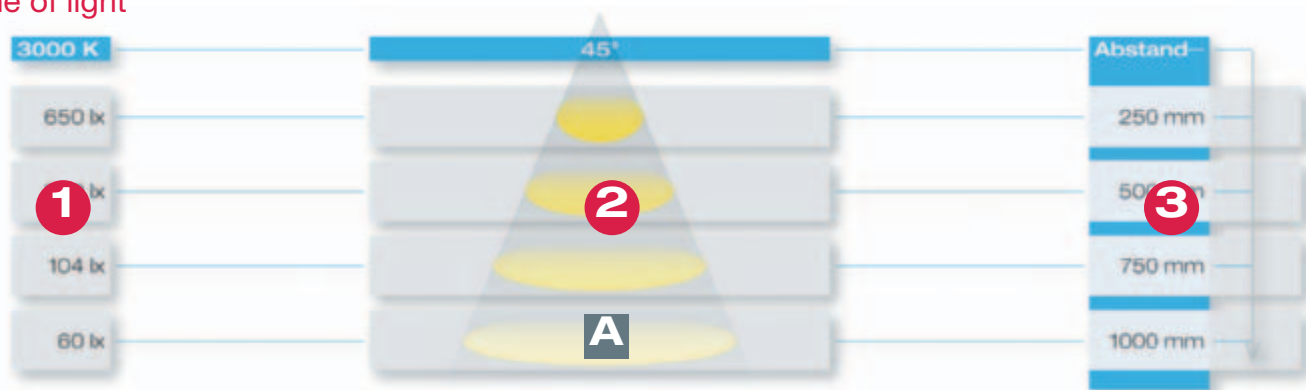




Certificates and installation instructions  
download at: [www.hafele.com](http://www.hafele.com)



## Cone of light



**1** The light output is noted in the left-hand column. The correlated colour 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).

**3** The right-hand column contains the distances for which the illuminated area and the associated Lux value (lx) were measured.

**2** The angle of radiation is marked in the centre 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).

Example for 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 colour/colour temperature

The light colour is a specification of the colour 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. Sources below 3200 K are considered "warm", while those above 4000 K are considered "cool" sources.

### 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 Lumen (lm).

### Colour rendering index

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

## Comparison of lighting systems

Light	Wattage in W	Light output in lm/W	Colour rendering index R <sub>a</sub>
Halogen 12 V	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





Technischer Überwachungs Verein  
(Technical Control Board)



Underwriters Laboratories



Australian Communications Authority



Appliance and Material Safety Law



China Quality Certification



Electrical Testing Labs



TISI – Thai Industrial Standards Institute



Korea Certification Mark

SELV

Protection class III (protective extra-low voltage)



Furniture installation symbol



Suitable for direct fixing on standard inflammable surfaces



Protection class II (reinforced insulation)



Protection class III (protective extra-low voltage)



European Safety Standard

IP20

Only for use in dry locations



Do not use components that impede thermal radiation



Kelvin



Switch

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