HÄFELE

THE FOURTH DIMENSION OF FURNITURE.

LOOX. THE LED LIGHTING SYSTEM.

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THE FOURTH DIMENSION OF FURNITURE

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A DIALOGUE ABOUT AMBIANCE.

LED light in furniture and furnishings. The effective extension of the room light.

Light is a fundamental part of life. One, that affects our well-being noticeably. The bright, cool white morning light is very different from the warm glow of candles or light bulbs. Inside, one tries to mimic daylight in an effort to design the room with it. Light in furniture and furnishings blends harmoniously with the lighting of the room adding another layer to the design – a fourth dimension. This way, subtle nuances in the ambiance are created and specific areas are separated or accentuated to create a perfectly composed holistic effect.

Due to the low heat development, the small fixture size and the long service life LED lights are ideally suited for this purpose. Light colours, even differently tempered whites, are recreated realistically. With the Loox LED system work areas, presentation areas and living rooms can be illuminated for functional and decorative purposes. Well-being can be influenced in a targeted manner. And it is surprisingly simple.

Light – Engineered by Häfele

Häfele combines the knowledge of the essence of light and its high product development competence with the on-going analysis of international markets. On this basis, the high-quality Loox LED system was developed to effectively combine the needs of customers and installers.

A SYSTEM THAT SIMPLIFIES DESIGNING.

Loox. Light ideas that are flexible, easy and reliable to implement.

With the Loox LED system it is easy to develop and plan flexible light ideas. The flexibility is a result of a wide selection of different components ranging from light fixtures to switches. The easy to use plug-in system with its clearly marked colour coding connects all the elements with a compact driver. Large systems with multiple or different drivers can also be created. All components are of certified quality and provide long-term reliability and peace of mind during operation.

FLEXIBLE
EASY
RELIABLE

PLAN FLEXIBLY.

Loox. The comprehensive kit of light and functions.

To achieve different lighting effects is one thing. To respond to different installation situations, is something else altogether. With the large number of components in the Loox LED system both are possible. From the wide-angle beam of interior cabinet lighting incorporating a door contact switch combined with drawer lighting, to the combination of mood and functional lighting in an open kitchen.

RECESS MOUNTED LIGHTS AND SURFACE MOUNTED DOWNLIGHTS.

SWITCHES.

On/off switches, dimmers, motion detectors, sensor switches, remote controls

FLEXIBLE LIGHTS.

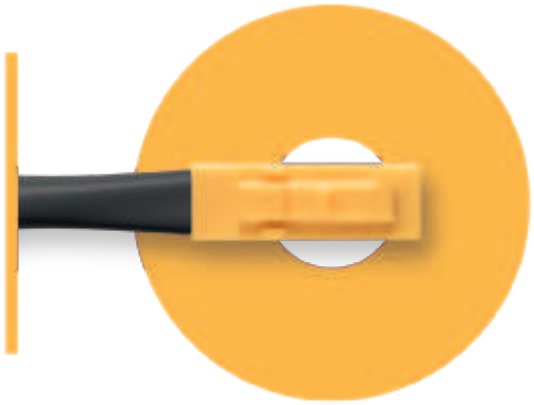
LED STRIP LIGHTS.

SURFACE MOUNTED LIGHTS, GLASS EDGE LIGHTING, ALUMINIUM PROFILES, PLINTH LIGHTS, ...

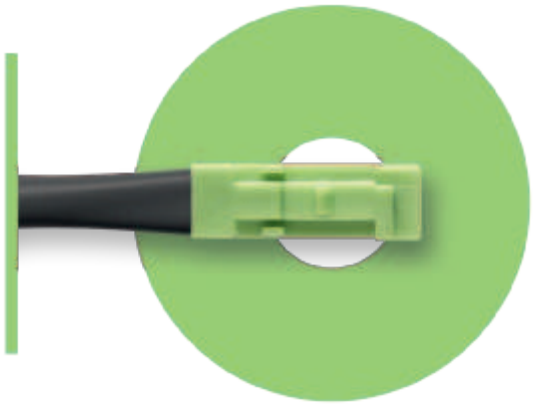
EASY AND QUICK INSTALLATION.

Loox. The intelligent plug and play system with easily understandable colour coding.

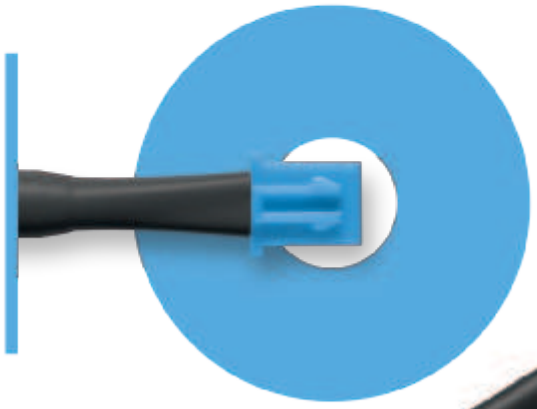
12 V



24 V



350 mA



PLUG AND PLAY.

Loox has 3 power systems for the different LED lights with matching drivers as central switching devices. 12 V and 24 V (parallel connection) for universal applications ranging from ambient light to functional light with different light outputs and 350 mA (series connection) specially for spot lighting with low wattage.

Clear colour coding of the plugs with individual design makes the system easy to assemble and install. It can easily be installed without the need for an electrician.

COLOUR CONSISTENCY – AFTER-MARKET REPLACEMENT ASSURANCE
OPTIMUM COLOUR RENDERING INDEX
ALL COMPONENTS ARE HIGHLY RELIABLE

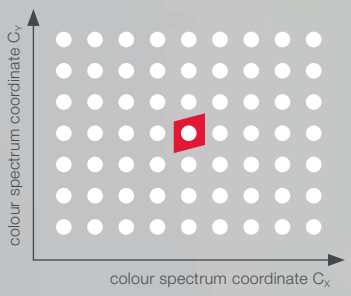
ENSURING CUSTOMER SATISFACTION.

Loox. Consistently high quality level with certified Häfele standards.

Consistent colour quality and performance.

An important factor for new technologies is the reliability in use. Häfele has therefore set high standards for the selection of materials, which are continually tested and certified internationally. Setting a narrow binning is one of them. LEDs are tested and sorted for colour, luminous flux and forward voltage after production. Häfele selects the highest quality class LEDs for maximum durability, energy efficiency and to ensure aftermarket replacement quality. Häfele has an extensive list of quality criteria in order to ensure reliable products and long-term customer satisfaction.

Häfele Binning



Close selection criteria ensure quality.

TO SEE, OBSERVE OR WATCH?

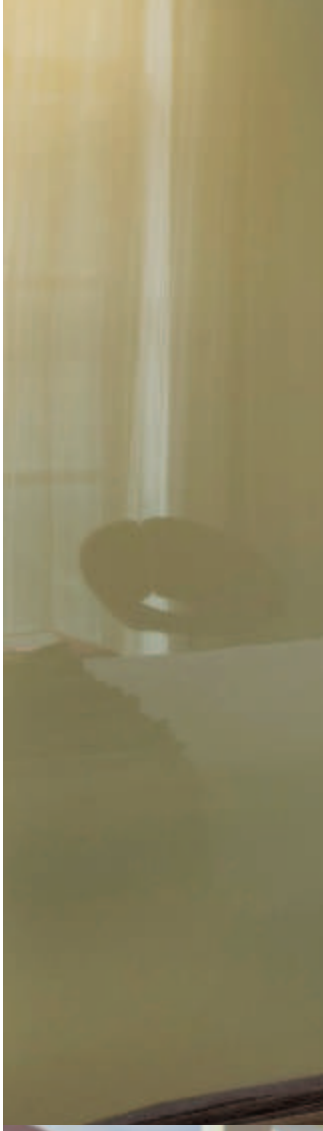
Designing with light functions.

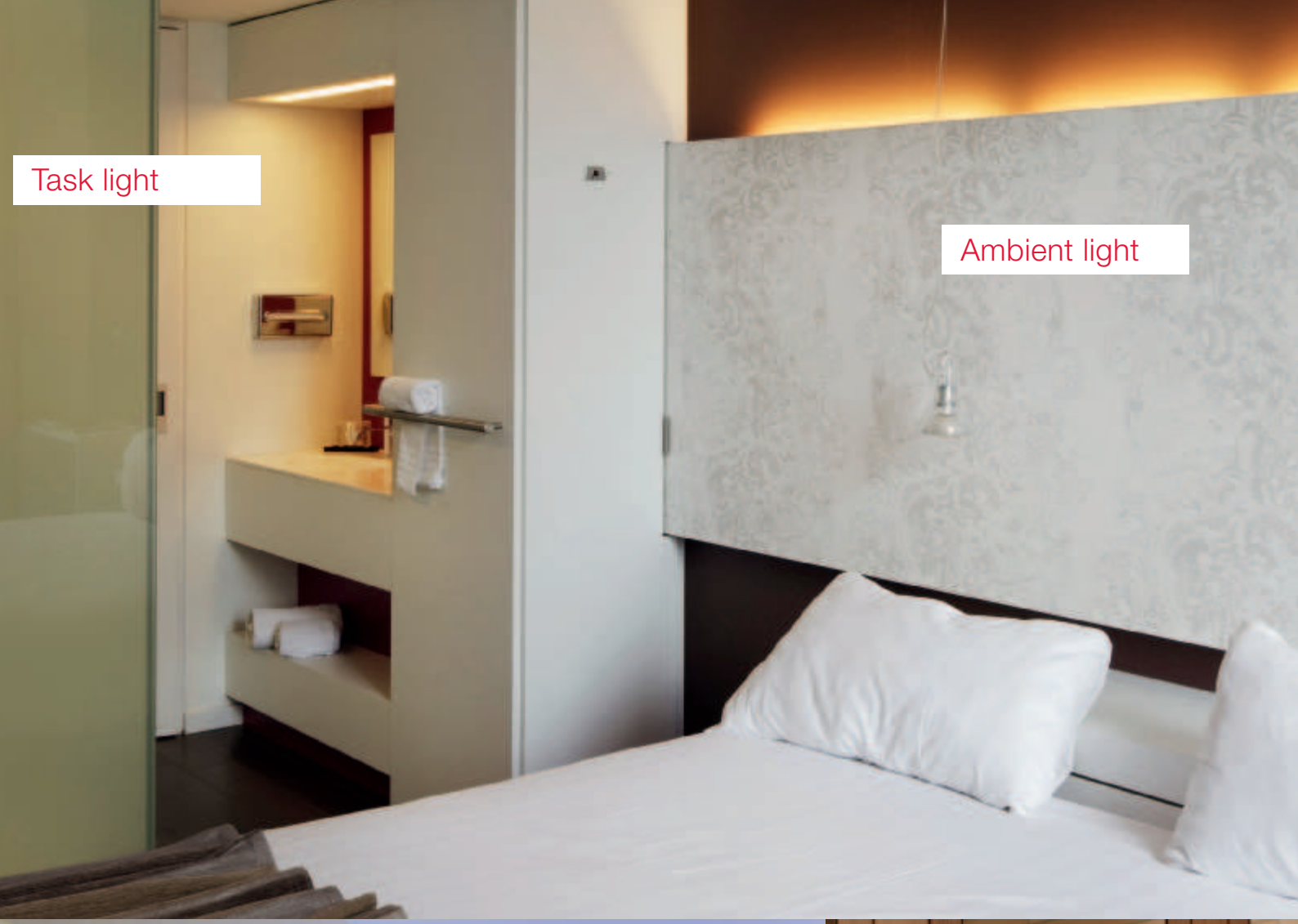
In the 1950s, Richard Kelly, a pioneer of lighting design, already differentiated between light to see – ambient luminescence, focal glow – the illumination of an object or area, and play of brilliants – in which the light itself is the object to observe.

Emphasising room dimensions.

The Loox LED system also makes other, more specific, functions to use light as a design element in furniture and therefore also in the room, possible. Task lighting describes lighting, which is used to illuminate a work area in a kitchen, or the bathroom countertop. Ambient lighting balances room dimensions and facilitates spatial orientation. The narrow beam of spot lighting is used to highlight interesting objects or features.

The versatility of applications and combinations of lights within the Loox LED system create the opportunity to emphasize the dimensions of rooms and lend an ambiance to furniture that provides a holistic connection with the room.




Task light
Ambient light

Task light

Spotlight

INVIGORATING OR RELAXING.

Designing with colour temperature.

Light with a high blue component has an invigorating effect on the body. Just like the cool fresh light of an early morning. By comparison, strong red and yellow-coloured light has a relaxing effect and evokes a state of rest. Just like the warm glow in the late afternoon or a candle.

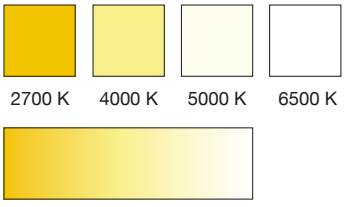
Knowledge creates opportunities.

The colour of the light, also referred to as colour temperature (measured in K = Kelvin), controls our state of well-being. Using Loox LED lights, you can deploy this effect in a targeted manner. Loox LED lights are available in colour temperatures ranging from 2700-6500 K. Cool white light is ideal for task lighting while ambient lighting for settings should be a warm white light.

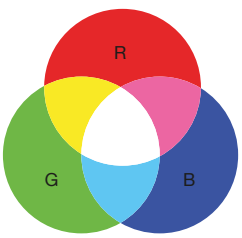
The use of multi-white lights integrates open kitchens into the living environment. In the morning, bright and invigorating cool light illuminates the work surface; in the afternoon the light is warmer and in the evening it is dimmed to a warm white for a relaxing ambiance. The transition is stepless and remote controlled.

RGB lights can be supplemented to add intense light colours for individually adjustable decorative effects.

Colour temperature

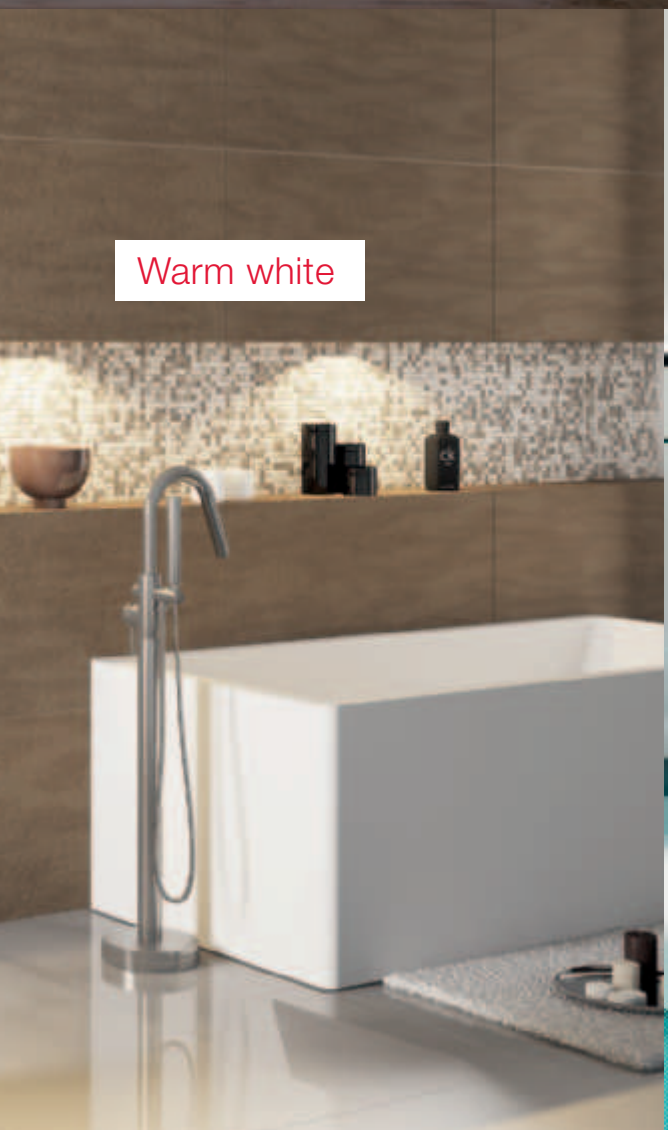


Colour mixing

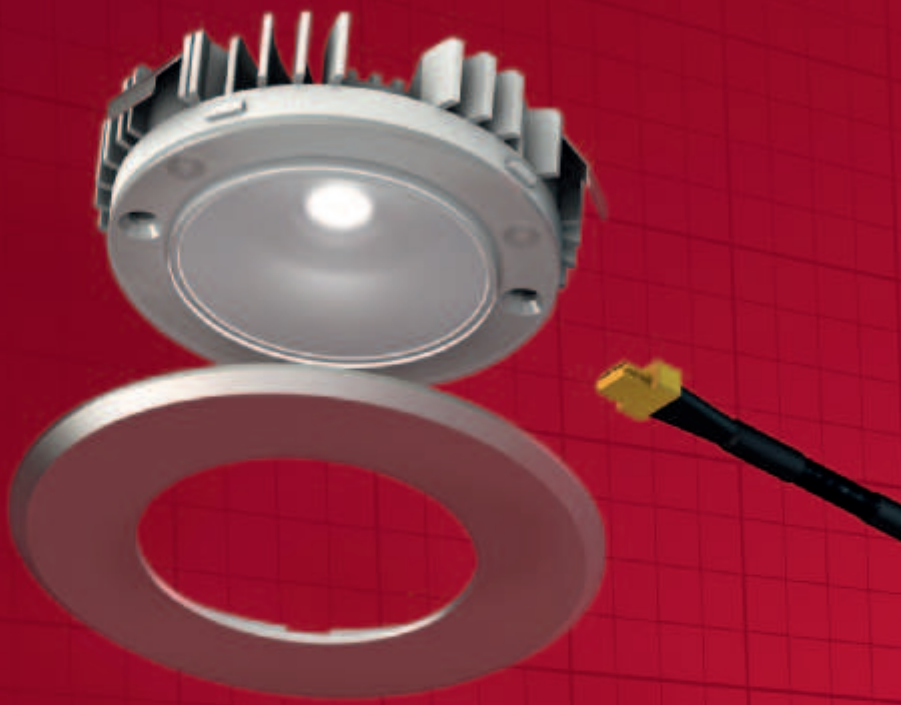


Cool white

Warm white


Warm white

Cool white



MANY OPTIONS. LOW COST.

Loox. The LED lighting system. Light – Engineered by Häfele.

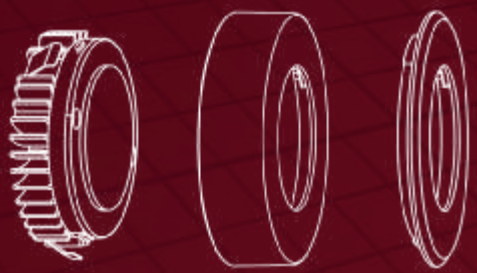
The intelligent drivers represent the core of the Loox system. Not only do they provide different numbers of lights with the power that is required, but they are also suitable for the different voltages and frequencies all over the world, recognise different types of switch, can be used for dimming and can be combined in many different ways. International testing and certification make the use thereof extremely safe and easy.

All of the system components are described in detail on the pages that follow. Please also ask for the Loox 'Quick Select', which contains a wide range of application examples and wiring diagrams.

12 V 24 V 350 mA

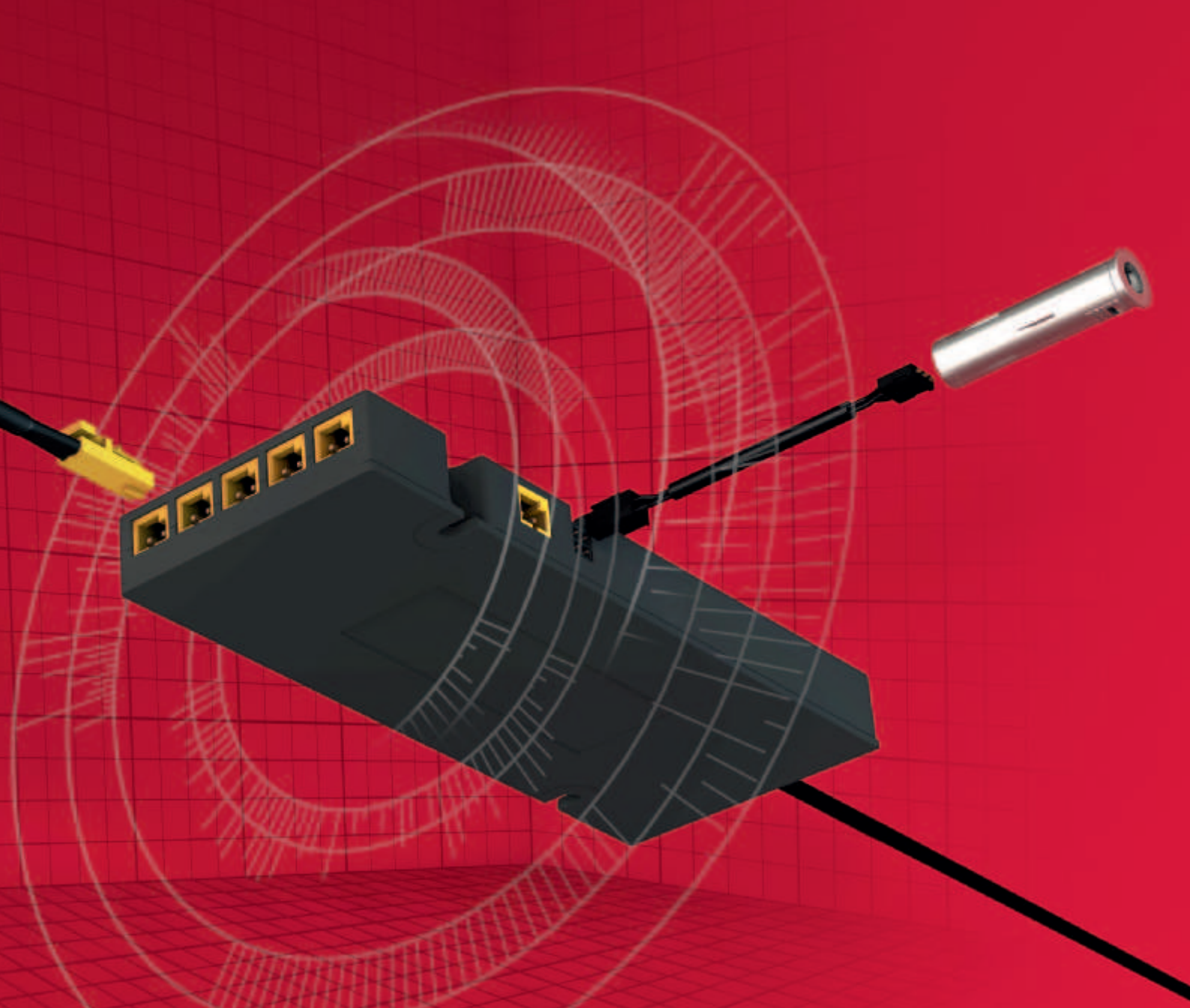
SYSTEM

Coordinated components turn Loox into an atmospheric LED system for almost any application. From simple to complex: plug and play. Flexible planning, easy to install, always reliable and peace of mind during operation.



MODULARITY

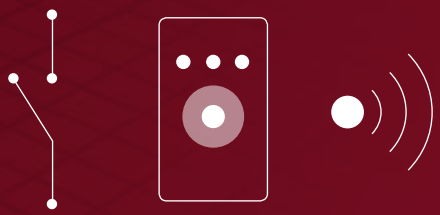
The lights and switches are cabled so that they can be connected to the driver at both sides. This means that a switch can be replaced with a dimmer at a later date without having to re-lay the cable. Different covers give recess mounted lights and surface mounted downlights a different look.



12 V 24 V 350 mA

LIGHT INTENSITY

12 V system: Mainly used for ambient and mood light. 24 V system: Mainly used for functional light because of the higher light intensity. 350 mA system: Mainly used as a spotlight because of the high light intensity.



CONTROL

Switch and control – suitable for any requirement. Different cable-connected switches, continuously adjustable remote controllers for light colours and temperatures, and radio switches that are completely independent of the location create new freedom in furniture planning.

OVERVIEW

LEDs AND ACCESSORIES – 12 V SYSTEM

12 V SYSTEM

LOOX LED 2025/2026
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

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LOOX LED 2040
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

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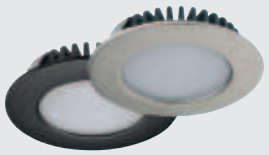
LOOX LED 2020
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT



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LOOX LED 2022
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

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LOOX LED 2023
RECESS MOUNTED LIGHT

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LOOX LED 2039
RECESS MOUNTED LIGHT IP65

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LOOX LED 2036
RECESS MOUNTED LIGHT

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LOOX LED 2027
SURFACE MOUNTED DOWNLIGHT

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LOOX LED 2002
SURFACE MOUNTED DOWNLIGHT

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LOOX LED 2033
SURFACE MOUNTED LIGHT

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LOOX LED 2032
SURFACE MOUNTED LIGHT

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LOOX LED 2029
LED FLEXIBLE STRIP LIGHT, 5 m, 48 W

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LOOX LED 2037
LED FLEXIBLE STRIP LIGHT, 5 m, 20 W

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LOOX LED 2045
LED FLEXIBLE STRIP LIGHT, 5 m, 36 W

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LOOX LED 2043
LED FLEXIBLE STRIP LIGHT, 5 m, 24 W

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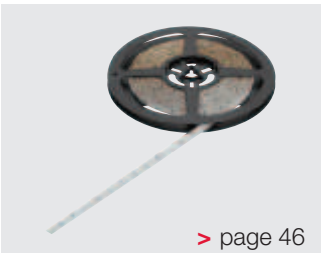
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2030
LED SILICONE STRIP LIGHT, 5 m, 24 W



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LOOX LED 2024
LED BAR LIGHT, PLUG-IN

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LOOX LED 2010
SURFACE MOUNTED DOWNLIGHT

RGB

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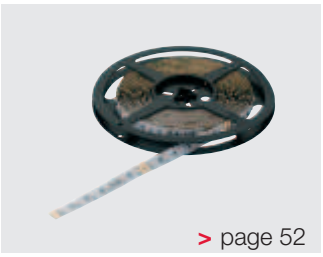
LOOX LED 2014
LED FLEXIBLE STRIP LIGHT, 5 m, 24 W

RGB



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LOOX LED 2016
LED FLEXIBLE STRIP LIGHT, 5 m, 36 W

RGB

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LOOX LED 2012
LED FLEXIBLE SILICONE STRIP LIGHT, 2 m

RGB

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LOOX LED 2034/2035
FLEXIBLE LIGHT

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LOOX LED 2018
FLEXIBLE LIGHT

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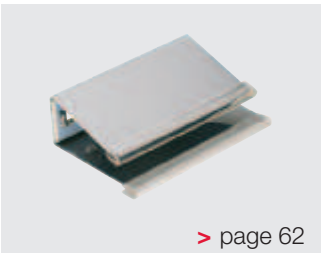
LOOX LED 2019
GLASS EDGE LIGHT



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LOOX LED 2028
PLINTH LIGHT

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LOOX LED DRIVERS
CONSTANT VOLTAGE 12 V

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PROFILES
FOR LED FLEXIBLE STRIP LIGHTS

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LOOX ACCESSORIES
SWITCHES/SWITCH ACCESSORIES

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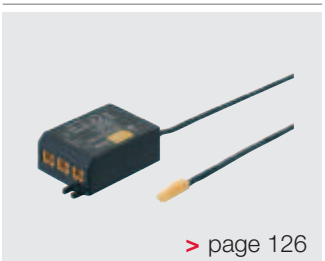
LEADS AND DISTRIBUTORS



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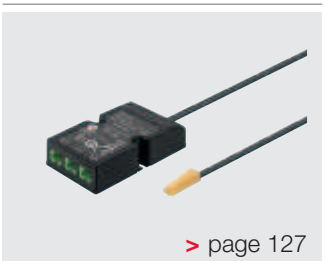
CONVERTERS



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LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2025/2026

RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT, MODULAR

0 100%

12 V SYSTEM

Thanks to the modular principle with the differently designed rings for recess mounting/bezels and leads in different lengths, these lights can be used in a variety of applications.
The drill hole diameter of 58 mm is ideal for replacing existing halogen lights.
The powerful illuminance of the LED 2025 also allows the use in working areas.
Customised lights can be developed extremely quickly – just speak to us.

	LED 2025			LED 2026		
Cat. No.	**833.72.120**	**833.72.121**	**833.72.122**	**833.72.130**	**833.72.131**	**833.72.132**
Colour temperature (K)	3000 (warm white)	4000 (cool white)	5000 (cool white)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Ø (mm)	61.2	61.2	61.2	61.2	61.2	61.2
Height (mm)	15.6	15.6	15.6	15.6	15.6	15.6
Wattage (W)	3.8	3.8	3.8	3.0	3.0	3.0
Number of LEDs	1 (COB)	1 (COB)	1 (COB)	6	6	6
Light output (lm)	280	302	316	251	292	293
Efficacy (lm/W)	74	79	83	84	97	98
Colour rendering index (CRI)	82	82	82	83	83	83
Energy efficiency category	A+	A+	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	4.18	4.18	4.18	3.30	3.30	3.30
Finish	Aluminium			Aluminium		
Supplied with	1 light			1 light		

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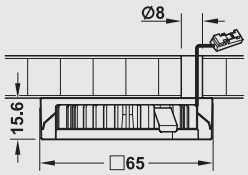
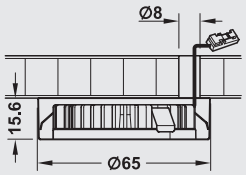
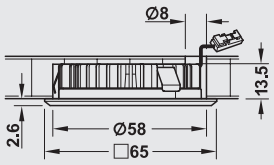
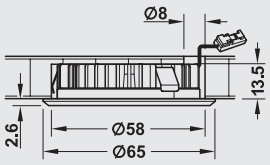
RoHS IP20

LED 2025/2026









- > Dimmable
- > Drill hole Ø: 58 mm
- > Installation: For mounting in drilled hole, with clip fastener or for screw fixing

> Driver see page 64

Housing for surface mounting, silver col.
- > Round Cat. No. 833.72.124
- > Square Cat. No. 833.72.125

Housing for recess mounting, silver col.
- > Round Cat. No. 833.72.126
- > Square Cat. No. 833.72.127

Lead
- > 500 mm Cat. No. 833.72.128
- > 1000 mm Cat. No. 833.72.129
- > 2000 mm Cat. No. 833.72.123

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2040

RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT, MODULAR

0 100%

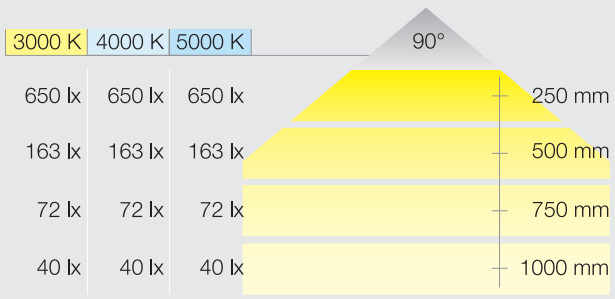
12 V SYSTEM

The LED 2040 completes the modular system (LED 2025 / LED 2026) and provides a flexible solution for the 35 mm drill hole diameter.
The modular principle and the 3 colour temperatures provide complete design freedom. The LED 2040 can be used as a recess mounted light or surface mounted downlight.

- > Dimmable
- > Drill hole Ø: 35 mm
- > Installation: For mounting in drilled hole, with clip fastener or for screw fixing

> Driver see page 64

Cat. No.	833.72.140	833.72.141	833.72.142
Colour temperature (K)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Ø (mm)	38.5	38.5	38.5
Height (mm)	15	15	15
Wattage (W)	1.5	1.5	1.5
Number of LEDs	3	3	3
Light output (lm)	105	105	105
Efficacy (lm/W)	70	70	70
Colour rendering index (CRI)	82	87	88
Energy efficiency category	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	1.65	1.65	1.65
Finish	Aluminium		
Supplied with	1 light		



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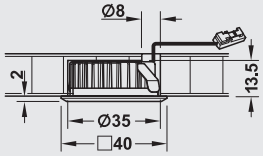
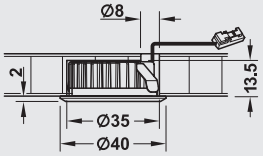
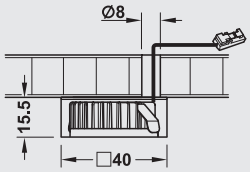
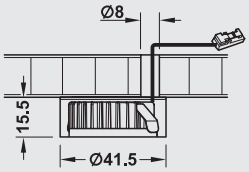
CE UL US R36733 RoHS IP20

LED 2040

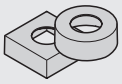








Housing for recess mounting, silver col.
> Round Cat. No. 833.72.145
> Square Cat. No. 833.72.146



Housing for surface mounting, silver col.
> Round Cat. No. 833.72.143
> Square Cat. No. 833.72.144

Lead
> 500 mm Cat. No. 833.72.128
> 1000 mm Cat. No. 833.72.129
> 2000 mm Cat. No. 833.72.123

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

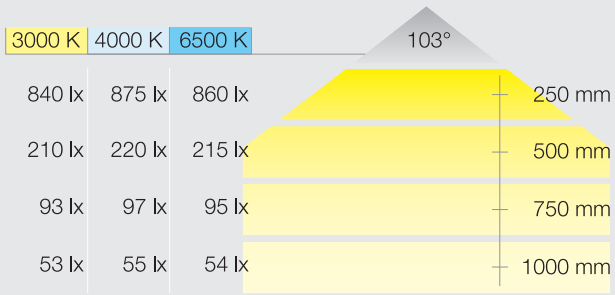
LOOX LED 2020

RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT, ROUND

0 100%

12 V SYSTEM

The LED 2020 generates homogeneous, extensive light and is ideal for atmospheric lighting in any area.
The light can be used in a variety of ways because of the two installation types and three colour temperatures.

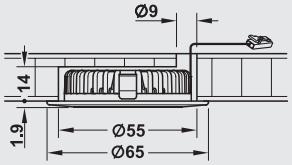


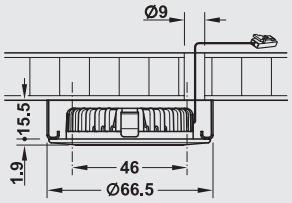
Cat. No.	833.72.020	833.72.023	833.72.030	833.72.021	833.72.024	833.72.031	833.72.022	833.72.025	833.72.032
Colour temperature (K)	3000 (warm white)			4000 (cool white)			6500 (daylight white)		
Ø (mm)	65	65	65	65	65	65	65	65	65
Height (mm)	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
Degree of protection	IP44 as recess mounted light; IP20 with bezel (surface mounted downlight)								
Wattage (W)	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Number of LEDs	6	6	6	6	6	6	6	6	6
Light output (lm)	134	134	134	142	142	142	140	140	140
Efficacy (lm/W)	50	50	50	53	53	53	52	52	52
Colour rendering index (CRI)	84	84	84	85	85	85	88	88	88
Energy efficiency category	A	A	A	A	A	A	A	A	A
Weighted energy consumption (kWh/1.000 h)	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52
Finish	Zinc alloy, nickel plated matt	Zinc alloy, black	Chrome coloured	Zinc alloy, nickel plated matt	Zinc alloy, black	Chrome coloured	Zinc alloy, nickel plated matt	Zinc alloy, black	Chrome coloured
Supplied with	1 light with 2 m lead and mounting accessories								

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20 IP44

LED 2020





> Dimmable
> Drill hole Ø: 55 mm

> Driver see page 64

Bezel
> Nickel plated matt
Cat. No. 833.72.800
> Black
Cat. No. 833.72.801
> Chrome coloured
Cat. No. 833.72.802

With a bezel the degree of protection is IP20.

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

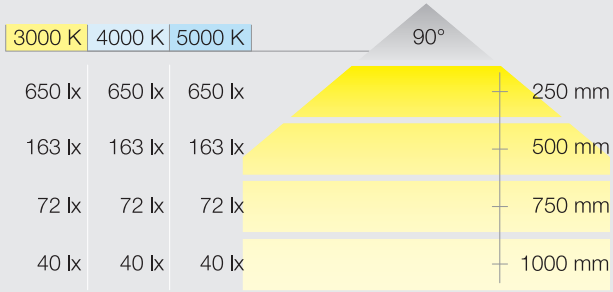
LOOX LED 2022

RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT, ROUND

0 100%

12 V SYSTEM

The small LED 2022 with a drill hole diameter of just 26 mm is protected from water spray as a recess mounted light with degree of protection IP44 and can therefore be used in an extremely flexible way.
The LED 2022 can be used as a surface mounted downlight with IP20 using optionally available bezels and wedges.

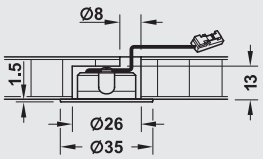


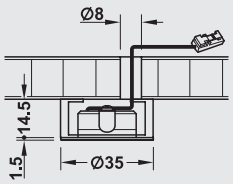
Cat. No.	833.72.043	833.72.040	833.72.041	833.72.044	833.72.042	833.72.045
Colour temperature (K)	3000 (warm white)		4000 (cool white)		5000 (cool white)	
Ø (mm)	35	35	35	35	35	35
Height (mm)	14	14	14	14	14	14
Degree of protection	IP44 as recess mounted light; IP20 with bezel (surface mounted downlight)					
Wattage (W)	1.5	1.5	1.5	1.5	1.5	1.5
Number of LEDs	3	3	3	3	3	3
Light output (lm)	105	105	105	105	105	105
Efficacy (lm/W)	70	70	70	70	70	70
Colour rendering index (CRI)	82	82	87	87	88	88
Energy efficiency category	A+	A+	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	1.65	1.65	1.65	1.65	1.65	1.65
Finish	Aluminium					
Colour	Chrome plated polished	Silver coloured anodized	Silver coloured anodized	Chrome plated polished	Silver coloured anodized	Chrome plated polished
Supplied with	1 light with 2 m lead					

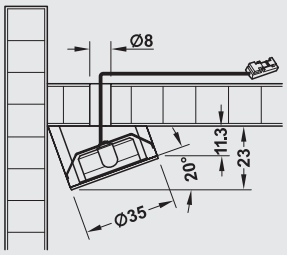
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20 IP44

LED 2022







- > Dimmable
- > Drill hole Ø: 26 mm
- > Installation: For mounting in drilled hole, with clip fastener or for screw fixing

> Driver see page 64

Housing for surface mounting, round
- > Chrome plated
  Cat. No. 833.72.830
- > Silver coloured anodized
  Cat. No. 833.72.831

Housing for surface mounting, wedge-shaped
- > Chrome plated
  Cat. No. 833.72.833
- > Silver coloured anodized
  Cat. No. 833.72.832

With a housing for surface mounting the degree of protection is IP20.

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

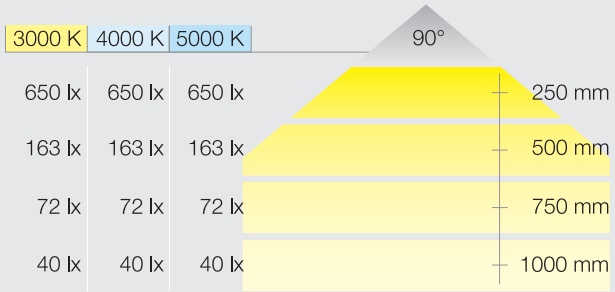
LOOX LED 2023

RECESS MOUNTED LIGHT, SQUARE

0 100%

12 V SYSTEM

The universally deployable small LED 2023 provides variable design options with its three colour temperatures, compact design and two housing colours.
The IP44 degree of protection means that the recess mounted light can also be used in wet rooms.

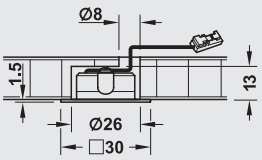


Cat. No.	833.72.060	833.72.064	833.72.061	833.72.065	833.72.062	833.72.066
Colour temperature (K)	3000 (warm white)		4000 (cool white)		5000 (cool white)	
Length (mm)	30	30	30	30	30	30
Width (mm)	30	30	30	30	30	30
Height (mm)	14	14	14	14	14	14
Wattage (W)	1.5	1.5	1.5	1.5	1.5	1.5
Number of LEDs	3	3	3	3	3	3
Light output (lm)	105	105	105	105	105	105
Efficacy (lm/W)	70	70	70	70	70	70
Colour rendering index (CRI)	82	82	82	82	82	82
Energy efficiency category	A+	A+	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	1.65	1.65	1.65	1.65	1.65	1.65
Finish	Aluminium					
Colour	Chrome plated polished	Silver coloured anodized	Chrome plated polished	Silver coloured anodized	Chrome plated polished	Silver coloured anodized
Supplied with	1 light with 2 m lead					

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20 IP44

LED 2023



> Dimmable
> Drill hole Ø: 26 mm
> Installation: For mounting in drilled hole, with clip fastener

> Driver see page 64

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

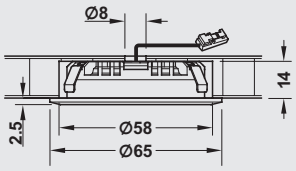
LOOX LED 2039

RECESS MOUNTED LIGHT, ROUND, IP55

0 100%

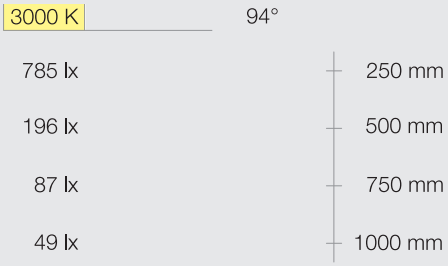
12 V SYSTEM

The LED 2029 impresses with its extremely homogeneous, extensive light.
The high degree of protection of IP65 means that the LED 2039 recess mounted light is even protected from water jets. Because of the 4 m lead it can be ensured that the driver (IP20) is installed in a dry location.



- > Dimmable
- > Drill hole Ø: 58 mm
- > Installation: For mounting in drilled hole, with clip fastener
- > Driver see page 64

Cat. No.	833.72.091	833.72.092
Colour temperature (K)	3000 (warm white)	3000 (warm white)
Ø (mm)	65	65
Height (mm)	16.4	16.4
Wattage (W)	2.5	2.5
Number of LEDs	18	18
Light output (lm)	125	125
Efficacy (lm/W)	50	50
Colour rendering index (CRI)	85	85
Energy efficiency category	A	A
Weighted energy consumption (kWh/1.000 h)	2.75	2.75
Finish	Zinc alloy	Zinc alloy
Colour	Nickel plated matt	Chrome plated
Supplied with	1 light with 4 m lead	



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

RoHS R36733 IP20 IP65

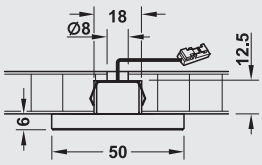
HÄFELE

LOOX LED 2036

0 100%

RECESS MOUNTED LIGHT, BAR SHAPED

The LED 2036 impresses with its extremely homogeneous, extensive light, which is also reinforced by the illuminated edge. The acrylic glass gives this light a high-quality appearance.



> Dimmable
> Installation: For recess mounting, with clip fastener

> Driver see page 64

Cat. No.	833.72.080	833.72.081	833.72.082
Colour temperature (K)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Length (mm)	250	250	250
Width (mm)	50	50	50
Height (mm)	18.5	18.5	18.5
Wattage (W)	3.6	3.6	3.6
Number of LEDs	36	36	36
Light output (lm)	182	190	210
Efficacy (lm/W)	51	53	58
Colour rendering index (CRI)	82	82	82
Energy efficiency category	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	3.96	3.96	3.96
Finish	Aluminium, white, acrylic glass		
Supplied with	1 light with 2 m lead		

3000 K	4000 K	5000 K	100°
984 lx	1015 lx	1033 lx	250 mm
246 lx	250 lx	255 lx	500 mm
109 lx	110 lx	114 lx	750 mm
62 lx	65 lx	66 lx	1000 mm

CE eUL US R36733 RoHS IP20

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

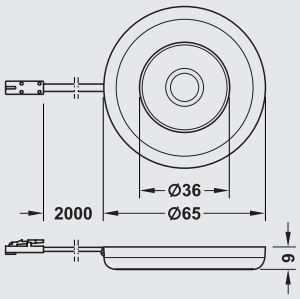
LOOX LED 2027

SURFACE MOUNTED DOWNLIGHT, ROUND

0 100%

12 V SYSTEM

The flat LED 2027 surface mounted downlight can be used universally. The edge is illuminated, and the points of LED light are not visible.
The fixings are concealed beneath a removable cover.



> Dimmable
> Installation: For screw fixing

> Driver see page 64

Cat. No.	833.72.050	833.72.051	833.72.052
Colour temperature (K)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Ø (mm)	65	65	65
Height (mm)	9	9	9
Wattage (W)	2.6	2.6	2.6
Number of LEDs	27	27	27
Light output (lm)	190	208	218
Efficacy (lm/W)	73	80	84
Colour rendering index (CRI)	85	85	85
Energy efficiency category	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	2.86	2.86	2.86
Finish	Aluminium, silver coloured anodized, plastic		
Supplied with	1 light with 2 m lead and fixing material		

3000 K	4000 K	5000 K	117°
867 lx	884 lx	918 lx	250 mm
216 lx	221 lx	229 lx	500 mm
96 lx	98 lx	102 lx	750 mm
54 lx	55 lx	57 lx	1000 mm

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

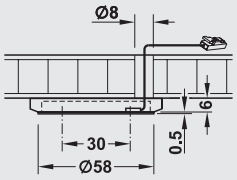
HÄFELE

LOOX LED 2002

SURFACE MOUNTED DOWNLIGHT, ROUND

0 100%

The LED 2002 surface mounted downlight is characterised by its flat design. In furniture and furnishings it is particularly suitable for providing decorative lighting in shelving and display cabinets.



> Dimmable

> Driver see page 64

Cat. No.	833.73.210	833.73.200
Colour temperature (K)	3000 (warm white)	5000 (cool white)
Ø (mm)	58	58
Height (mm)	6.5	6.5
Wattage (W)	1.5	1.5
Number of LEDs	19	19
Light output (lm)	67	86
Efficacy (lm/W)	45	57
Colour rendering index (CRI)	91	87
Energy efficiency category	A+	A+
Weighted energy consumption (kWh/1.000 h)	1.65	1.65
Finish	Plastic, silver coloured	
Supplied with	1 light with 2 m lead and mounting accessories	

3200 K	5000 K	94°
470 lx	635 lx	250 mm
120 lx	155 lx	500 mm
50 lx	72 lx	750 mm
35 lx	50 lx	1000 mm

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

LOOX LED 2033

SURFACE MOUNTED LIGHT, SQUARE, IP44

0 100%

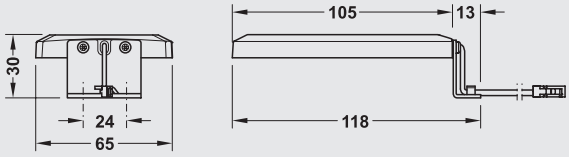
12 V SYSTEM

Give your furniture a stylish, modern note with the LED 2033 surface mounted light. Because of the IP44 degree of protection and the polished chrome finish, it is also suitable for use in bathrooms.

> Dimmable
> Installation: For screw fixing

> Driver see page 64

Cat. No.	833.74.160
Colour temperature (K)	4000 (cool white)
Length (mm)	65
Width (mm)	118
Height (mm)	30
Wattage (W)	3.8
Number of LEDs	18
Light output (lm)	219
Efficacy (lm/W)	58
Colour rendering index (CRI)	85
Energy efficiency category	A
Weighted energy consumption (kWh/1.000 h)	4.18
Finish	Zinc alloy, plastic
Colour	Chrome plated
Supplied with	1 light with 2 m lead and fixing material



4000 K | 103°

1228 lx	250 mm
307 lx	500 mm
136 lx	750 mm
77 lx	1000 mm

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP44

HÄFELE

LOOX LED 2032

0 100%

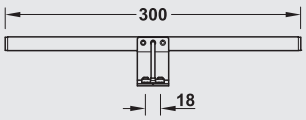
SURFACE MOUNTED LIGHT, BAR-SHAPED, IP44

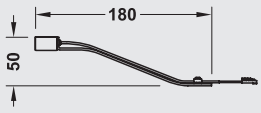
The LED 2032 is a surface mounted light with a wide variety of uses, e.g. for illuminating the mirrored cabinet in the bathroom. It is available with two finishes and has extremely homogeneous light distribution.

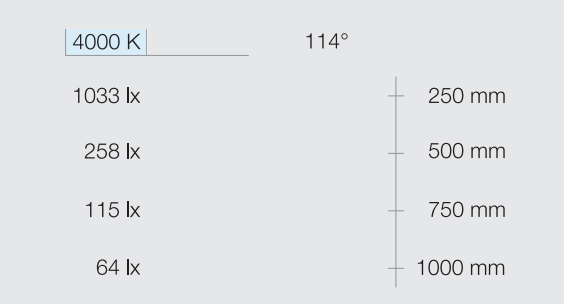
> Dimmable
> Installation: For screw fixing

> Driver see page 64

Cat. No.	833.74.070	833.74.080
Colour temperature (K)	4000 (cool white)	4000 (cool white)
Length (mm)	300	300
Width (mm)	180	180
Height (mm)	50	50
Wattage (W)	3	3
Number of LEDs	27	27
Light output (lm)	200	200
Efficacy (lm/W)	67	67
Colour rendering index (CRI)	84	84
Energy efficiency category	A+	A+
Weighted energy consumption (kWh/1.000 h)	3.30	3.30
Finish	Aluminium	
Colour	Silver coloured	Chrome plated
Supplied with	1 light with 2 m lead and fixing material	







LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP44

LOOX LED 2029

LED FLEXIBLE STRIP LIGHT, 5 m, 600 LEDs

0 100%

12 V SYSTEM

The LED 2029 strip light with a length of 5 m and 600 LEDs is ideal when it comes to direct and extremely homogeneous illumination of furniture. Flexible processing is guaranteed, since it can be shortened every 25 mm and combined with our different aluminium profiles. Corner connectors also make 90° installations possible.

- > Dimmable
- > Pay attention to width of clip connector (see drawing) when choosing an aluminium profile
- > Installation: Self-adhesive

- > Driver see page 64
- > Aluminium profile see page 110

Cat. No.	833.73.493	833.73.490	833.73.491	833.73.492
Colour temperature (K)	2700 (warm white)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Length (mm)	5000	5000	5000	5000
Width (mm)	10	10	10	10
Height (mm)	1.3	1.3	1.3	1.3
Wattage (W)	48 (9.6 per metre)			
Number of LEDs	600 (120 per metre)			
Light output (lm)	4050	4075	4100	4150
Efficacy (lm/W)	84	85	85	86
Colour rendering index (CRI)	82	82	82	82
Energy efficiency category	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	10.56 per metre			
Finish	Plastic			
Supplied with	5-metre roll with 2 m lead			

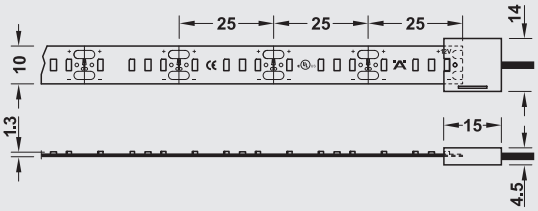
The values apply to a strip light length of 1 m.

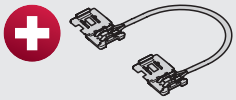
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

LED 2029

Detail





Interconnecting lead with clip for LED strip light
> 50 mm Cat. No. 833.73.721
> 500 mm Cat. No. 833.73.719
> 1000 mm Cat. No. 833.73.722
> 2000 mm Cat. No. 833.73.720

2 m lead with 12 V plug system and clip for LED strip light
> Cat. No. 833.73.728

Clip connector for LED strip light
> Cat. No. 833.73.731

Corner connector rigid, left and right for LED strip light
> Cat. No. 833.73.733

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2037

LED FLEXIBLE STRIP LIGHT, 5 m, 600 LEDs

0 100%

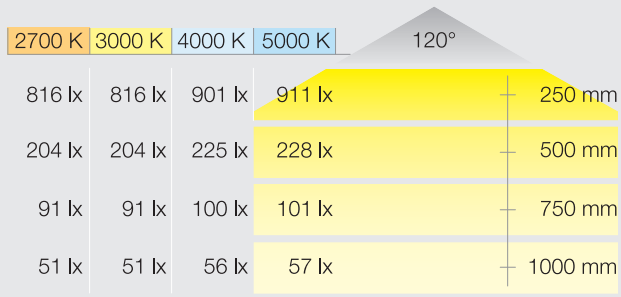
12 V SYSTEM

The LED 2037 strip light has 600 LEDs and is suitable for both atmospheric and homogeneous indirect lighting of furniture and furnishings and also for use as orientation lighting.
Because the strip light can be shortened every 25 mm, flexible processing is guaranteed. Corner connectors also make 90° installations possible.

- > Dimmable
- > Pay attention to width of clip connector (see drawing) when choosing an aluminium profile
- > Installation: Self-adhesive

- > Driver see page 64
- > Aluminium profile see page 110

Cat. No.	833.73.513	833.73.510	833.73.511	833.73.512
Colour temperature (K)	2700 (warm white)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Length (mm)	5000	5000	5000	5000
Width (mm)	10	10	10	10
Height (mm)	1.3	1.3	1.3	1.3
Wattage (W)	20 (4 per metre)			
Number of LEDs	600 (120 per metre)			
Light output (lm)	1600	1600	1700	1800
Efficacy (lm/W)	80	80	85	90
Colour rendering index (CRI)	82	82	82	82
Energy efficiency category	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	4.40 per metre			
Finish	Plastic			
Supplied with	5-metre roll with 2 m lead			



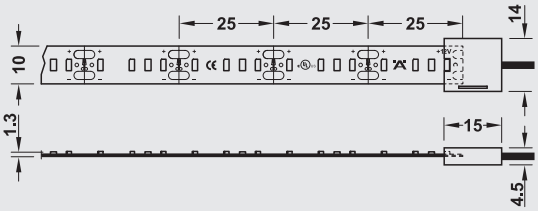
The values apply to a strip light length of 1 m.

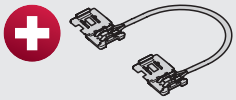
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

LED 2037

Detail





Interconnecting lead with clip for LED strip light
> 50 mm Cat. No. 833.73.721
> 500 mm Cat. No. 833.73.719
> 1000 mm Cat. No. 833.73.722
> 2000 mm Cat. No. 833.73.720

2 m lead with 12 V plug system and clip for LED strip light
> Cat. No. 833.73.728

Clip connector for LED strip light
> Cat. No. 833.73.731

Corner connector rigid, left and right for LED strip light
> Cat. No. 833.73.733

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2045

LED FLEXIBLE STRIP LIGHT, 5 m, 450 LEDs

0 100%

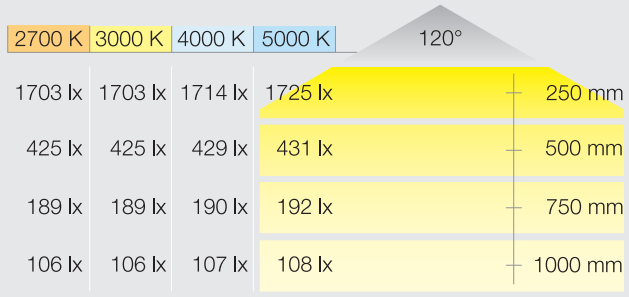
12 V SYSTEM

The LED 2045 strip light can be used universally.
It can be shortened every 33 mm and can therefore be processed in a flexible way.
In combination with our aluminium profiles, different diffusers and installation types are available. You can give your lighting effects an individual touch using the corner and clip connectors.

- > Dimmable
- > Pay attention to width of clip connector (see drawing) when choosing an aluminium profile
- > Installation: Self-adhesive

- > Driver see page 64
- > Aluminium profile see page 110

Cat. No.	833.73.130	833.73.131	833.73.132	833.73.133
Colour temperature (K)	2700 (warm white)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Length (mm)	5000	5000	5000	5000
Width (mm)	10	10	10	10
Height (mm)	1.3	1.3	1.3	1.3
Wattage (W)	36 (7.2 per metre)			
Number of LEDs	450 (90 per metre)			
Light output (lm)	3100	3100	3150	3200
Efficacy (lm/W)	86	86	88	89
Colour rendering index (CRI)	82	82	82	82
Energy efficiency category	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	7.92 per metre			
Finish	Plastic			
Supplied with	5-metre roll with 2 m lead			



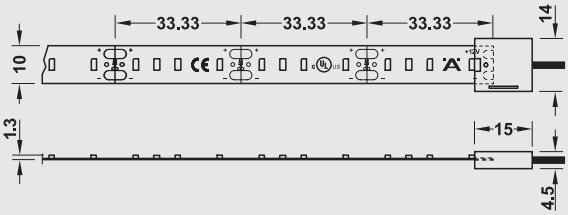
The values apply to a strip light length of 1 m.

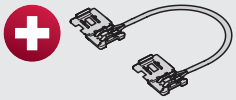
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

LED 2045

Detail





Interconnecting lead with clip for LED strip light
> 50 mm Cat. No. 833.73.721
> 500 mm Cat. No. 833.73.719
> 1000 mm Cat. No. 833.73.722
> 2000 mm Cat. No. 833.73.720

2 m lead with 12 V plug system and clip for LED strip light
> Cat. No. 833.73.728

Clip connector for LED strip light
> Cat. No. 833.73.731

Corner connector rigid, left and right for LED strip light
> Cat. No. 833.73.733

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2043

LED FLEXIBLE STRIP LIGHT, 5 m, 300 LEDs

0 100%

12 V SYSTEM

The LED 2043 5 m strip light with its 300 LEDs has a wide range of decorative application options. It can be shortened every 50 mm.
The areas of application are manifold due to the corner and clip connectors.

- > Dimmable
- > Pay attention to width of clip connector (see drawing) when choosing an aluminium profile
- > Installation: Self-adhesive

- > Driver see page 64
- > Aluminium profile see page 110

Cat. No.	833.73.120	833.73.121	833.73.122	833.73.123
Colour temperature (K)	2700 (warm white)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Length (mm)	5000	5000	5000	5000
Width (mm)	10	10	10	10
Height (mm)	1.3	1.3	1.3	1.3
Wattage (W)	24 (4.8 per metre)			
Number of LEDs	300 (60 per metre)			
Light output (lm)	2000	2050	2060	2100
Efficacy (lm/W)	83	85	86	88
Colour rendering index (CRI)	82	82	82	82
Energy efficiency category	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	5.28 per metre			
Finish	Plastic			
Supplied with	5-metre roll with 2 m lead			

The values apply to a strip light length of 1 m.

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

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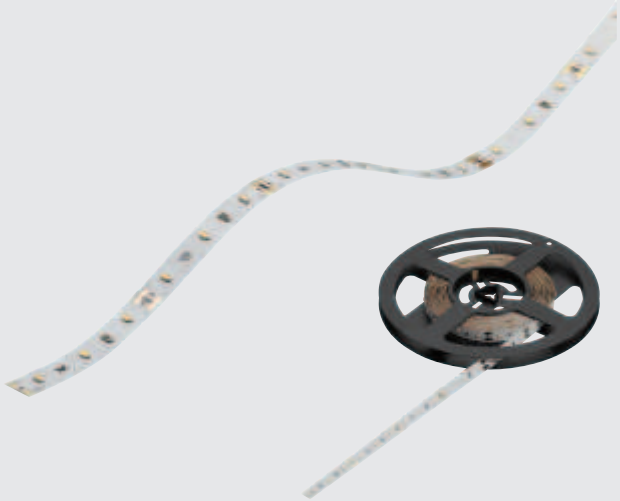
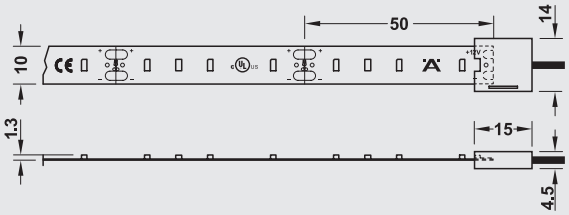
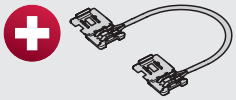
LED 2043



Detail





Interconnecting lead with clip for LED strip light
> 50 mm Cat. No. 833.73.721
> 500 mm Cat. No. 833.73.719
> 1000 mm Cat. No. 833.73.722
> 2000 mm Cat. No. 833.73.720

2 m lead with 12 V plug system and clip for LED strip light
> Cat. No. 833.73.728

Clip connector for LED strip light
> Cat. No. 833.73.731

Corner connector rigid, left and right for LED strip light
> Cat. No. 833.73.733

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2030

LED SILICONE STRIP LIGHT, 5 m, 300 LEDs

0 100%

12 V SYSTEM

The LED 2030 silicone strip light makes it possible to create efficient, flexible and atmospheric background lighting for furniture and furnishings. Thanks to the silicone encapsulation, this strip light can also be used without an aluminium profile, and it can even be used to create radii.
The silicone strip light has 300 LEDs, can be shortened every 50 mm and is also ideal for retrofitting.
The cut silicone strip can be re-used using the relevant clip and corner connectors.

- > Dimmable
- > The cut silicone strip can be re-used
- > Pay attention to width of clip connector (see drawing) when choosing an aluminium profile
- > Installation: Self-adhesive

> Driver see page 64

Cat. No.	833.73.480	833.73.481	833.73.482	833.73.520
Colour temperature (K)[1]	2700 (warm white)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Length (mm)	5000	5000	5000	5000
Width (mm)	8	8	8	8
Height (mm)	2.3	2.3	2.3	2.3
Wattage (W)	24 (4.80 per metre)			
Number of LEDs	300 (60 per metre)			
Light output (lm)	1930	1940	1950	1980
Efficacy (lm/W)	80	81	81	83
Colour rendering index (CRI)	82	82	82	82
Energy efficiency category	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	5.28 per metre			
Finish	Plastic			
Supplied with	5-metre roll with 2 m lead			

The values apply to a strip light length of 1 m.

[1] The specified colour temperature is the colour temperature of the LED. The silicone covering increases the colour temperature of the strip light.

CE cULus R36733 RoHS IP20

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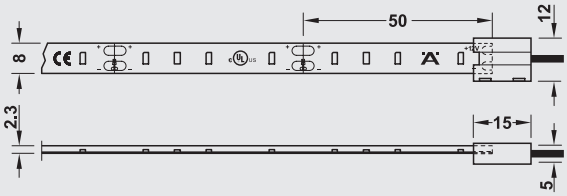
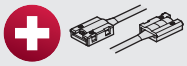
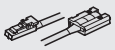
LED 2030

Detail





Interconnecting lead with clip for LED silicone strip light
> 50 mm Cat. No. 833.73.715
> 500 mm Cat. No. 833.73.716
> 1000 mm Cat. No. 833.73.717
> 2000 mm Cat. No. 833.73.718



2 m lead with 12 V plug system and clip for LED silicone strip light
> Cat. No. 833.73.727

Clip connector for LED silicone strip light
> Cat. No. 833.73.730

Corner connector rigid, left and right for LED silicone strip light
> Cat. No. 833.73.736

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2024

LED FLEXIBLE STRIP LIGHT, PLUG-IN

0 100%

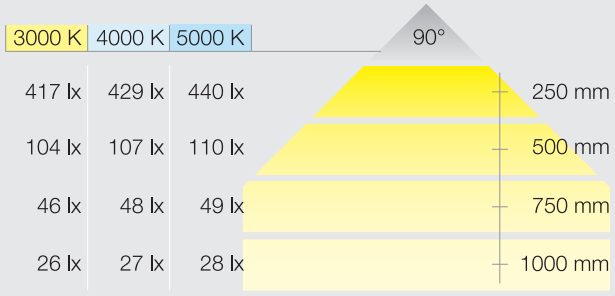
12 V SYSTEM

The LED 2024 strip light provides a wide range of decorative application options. Up to 15 strip lights can be plugged into each other. Because of the various installation types (for glue fixing or screw fixing) it is also ideal for retrofitting in existing furnishings.

> Dimmable
> Strip light installation with max. 15 lights.
> Installation: For glue fixing or screw fixing with the provided mounting brackets

> Driver see page 64

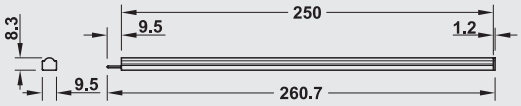
Cat. No.	833.73.030	833.73.031	833.73.032
Colour temperature (K)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Length (mm)	260.7	260.7	260.7
Width (mm)	9.5	9.5	9.5
Height (mm)	8.3	8.3	8.3
Wattage (W)	2.1	2.1	2.1
Number of LEDs	9	9	9
Light output (lm)	112	113	126
Efficacy (lm/W)	53	54	60
Colour rendering index (CRI)	82	82	82
Energy efficiency category	A++	A++	A++
Weighted energy consumption (kWh/1.000 h)	2.31	2.31	2.31
Finish	Plastic, matt		
Supplied with	1 strip light with fixing material		

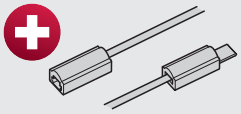


LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

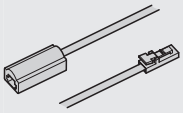
CE cULus R36733 RoHS IP20

LED 2024

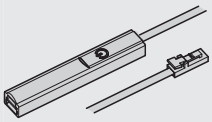




Interconnecting lead
> 50 mm Cat. No. 833.73.702
> 500 mm Cat. No. 833.73.703
> 1000 mm Cat. No. 833.73.704
> 2000 mm Cat. No. 833.73.705



2 m lead
> Cat. No. 833.73.700



2 m lead with dimmer
Dimmer length: 57.5 mm
> Cat. No. 833.73.701

Corner connector, right
> Cat. No. 833.73.706

Corner connector, left
> Cat. No. 833.73.707

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LOOX RGB COLOUR MIXING

RGB COLOUR MIXER WITH REMOTE CONTROL

12 V SYSTEM

RGB is the abbreviation for red, green and blue. With the principle of additive colour mixing, almost any colour combination can be created from the 3 primary colours.

A light with RGB capability either has 3 LEDs for the primary colours, which are arranged close to each other and generate the mixed colour together, or 3 different semiconductor crystals are installed in one LED, each of which radiates one of the primary colours.

Because the 3 primary colours are mixed with RGB, a pure white light colour is not possible.

A control unit (the RGB colour mixer) is required to make the different colour settings.

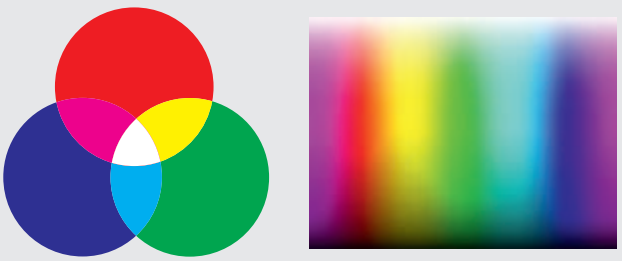
The RGB colour mixer is installed between the Loox driver and the lights.

Up to 4 RGB lights can be connected to a colour mixer.

With the aid of the RGB distributor, up to 12 RGB lights can be connected to one colour mixer.
The colour mixture that is selected applies to all of the connected RGB lights.

The RGB colour mixer is controlled by a remote control, via which the colour can be continuously adjusted and can be changed at any time.

This can be used to generate attractive colour displays, which can also be created by the interaction between the light that has been selected and the illuminated furniture.



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

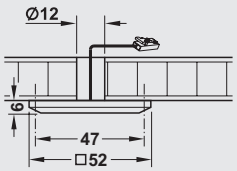
HÄFELE

LOOX LED 2010

RGB 0 100%

SURFACE MOUNTED DOWNLIGHT, SQUARE, RGB

The LED 2010 is the right choice if you wish to create design emphasis in a small amount of space with a surface mounted downlight with changing colours. The lights require very little space. The light colour thereof can be set to the customers' wishes.

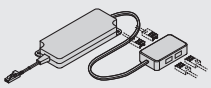


> Dimmable via RGB colour mixer with remote control.
> max. 10 colour mixers can be controlled with 1 remote control

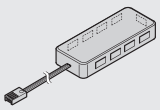
> Driver see page 64

Cat. No.	833.73.100
Colour temperature (K)	RGB
Length (mm)	52
Width (mm)	52
Height (mm)	6
Wattage (W)	1.7
Number of LEDs	9
Finish	Stainless steel, matt
Supplied with	1 light with 2.5 m lead and mounting accessories

> Remote control
for RGB colour mixer
Cat. No. 833.74.708



> RGB colour mixer, white,
with 4-way distributor, max. 30 W
Power consumption 0.6 W
Cat. No. 833.74.802



> 9-way RGB distributor
with 1 m lead
Cat. No. 833.74.741

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

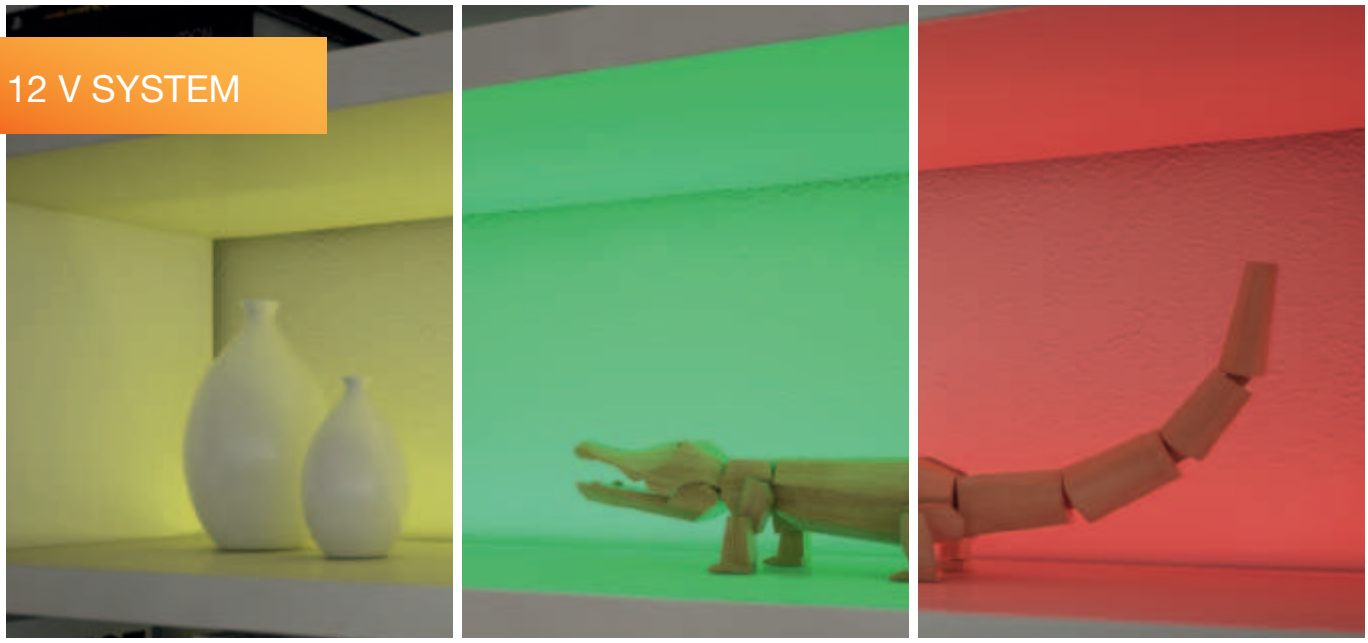
CE UL US R36733 RoHS IP20

LOOX LED 2014

LED FLEXIBLE STRIP LIGHT, 5 m, 300 RGB LEDs

RGB 0 100%

12 V SYSTEM



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

- > Dimmable via RGB colour mixer with remote control.
- > max. 10 colour mixers can be controlled with 1 remote control
- > Installation: Self-adhesive
  Single colour LEDs
  (3 adjacent coloured LEDs (red, green, blue) generate the required colour via colour mixing)
- > Can be shortened at alternating intervals (see drawing)

- > Driver see page 64
- > Aluminium profile see page 110

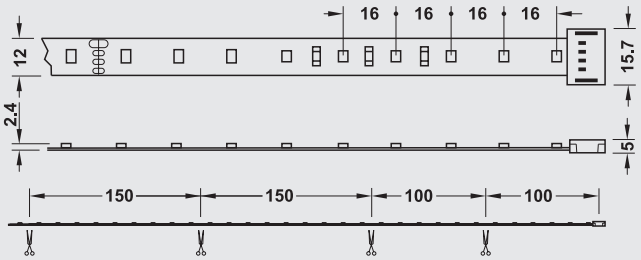
Cat. No.	833.73.370
Colour temperature (K)	RGB
Length (mm)	5000
Width (mm)	12
Height (mm)	2.4
Wattage (W)	24 (4.8 per metre)
Number of LEDs	300 (60 per metre)
Finish	LED board, white
Supplied with	5-metre roll with 2 m lead

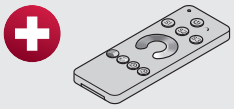
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

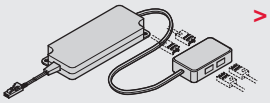
LED 2014 flexible strip light

Detail

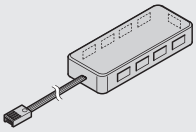




> Remote control
for RGB colour mixer
Cat. No. 833.74.708

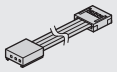


> RGB colour mixer, white,
with 4-way distributor, max. 30 W
Power consumption 0.6 W
Cat. No. 833.74.802

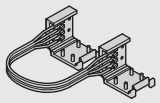


> 9-way RGB distributor
with 1 m lead
Cat. No. 833.74.741

> Corner connector, rigid
for RGB LED strip light
Cat. No. 833.74.760



> 2 m lead with 12 V plug system
and clip for LED RGB strip light
Cat. No. 833.74.764
> 4 m lead
Cat. No. 833.74.745



Interconnecting lead
with clip for LED RGB strip light
> 50 mm Cat. No. 833.74.766
> 500 mm Cat. No. 833.74.767
> 1000 mm Cat. No. 833.74.779
> 2000 mm Cat. No. 833.74.768

> Clip connector for RGB LED strip light
Cat. No. 833.74.761

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2016

LED FLEXIBLE STRIP LIGHT, 5 m, 150 RGB LEDs

RGB 0 100%

12 V SYSTEM

Bright light sources with changing colours are often in demand for lighting. The LED 2016 colour changing strip light meets these requirements easily.

- > Dimmable via RGB colour mixer with remote control.
- > max. 10 colour mixers can be controlled with 1 remote control
- > Can be shortened every 100 mm
- > Installation: Self-adhesive
- > Multi colour LEDs

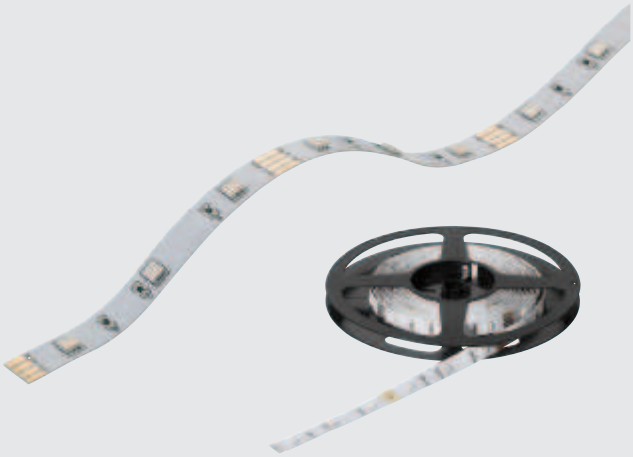
> Driver see page 64

Cat. No.	833.73.450
Colour temperature (K)	RGB
Length (mm)	5000
Width (mm)	12
Height (mm)	2.4
Wattage (W)	36 (7.1 per metre)
Number of LEDs	150 (30 per metre)
Finish	LED board, white
Supplied with	5-metre roll with 2 m lead

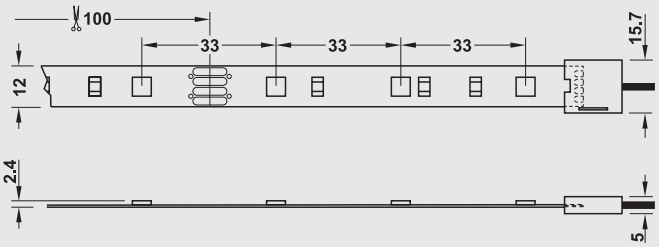
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

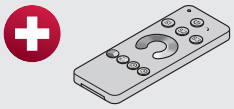
CE cULus R36733 RoHS IP20

LED 2016 flexible strip light

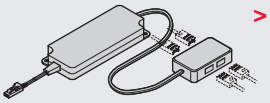


Detail

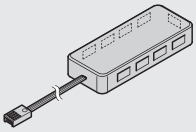




> Remote control
for RGB colour mixer
Cat. No. 833.74.708

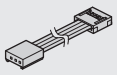


> RGB colour mixer, white,
with 4-way distributor, max. 30 W
Power consumption 0.6 W
Cat. No. 833.74.802

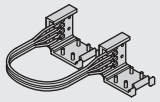


> 9-way RGB distributor
with 1 m lead
Cat. No. 833.74.741

> Corner connector, rigid
for RGB LED strip light
Cat. No. 833.74.760



> 2 m lead with 12 V plug system
and clip for LED RGB strip light
Cat. No. 833.74.764
> 4 m lead
Cat. No. 833.74.745



Interconnecting lead
with clip for LED RGB strip light
> 50 mm Cat. No. 833.74.766
> 500 mm Cat. No. 833.74.767
> 1000 mm Cat. No. 833.74.779
> 2000 mm Cat. No. 833.74.768

> Clip connector for RGB LED strip light
Cat. No. 833.74.761

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2012

LED SILICONE STRIP LIGHT, 2 m, 72 RGB LEDs

RGB 0 100%

12 V SYSTEM

Furniture is put into the right light by means of individually selectable colours using the LED 2012 colour changing strip light. The strip light can be shortened and flexibly adapted to any furnishing. It is therefore ideal for retrofitting.

Cat. No.	833.73.320	833.73.322
Colour temperature (K)	RGB	RGB
Length (mm)	300	2000
Width (mm)	10	10
Height (mm)	2.5	2.5
Wattage (W)	2	12
Number of LEDs	12	72
Finish	Plastic, white	
Supplied with	1 LED strip light	

- > Dimmable via RGB colour mixer with remote control.
- > max. 10 colour mixers can be controlled with 1 remote control
- > Can be shortened every 75 mm (Cat. No. 833.73.320) or every 83.3 mm (Cat. No. 833.73.322), after every 3rd LED
- > Installation: Self-adhesive
- > Single colour LEDs

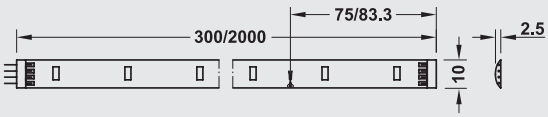
> Driver see page 64

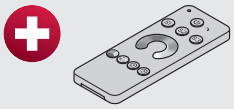
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

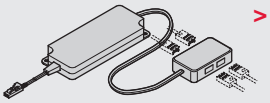
LED 2012 flexible strip light

Detail

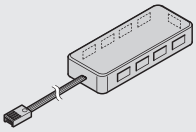




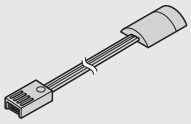
> Remote control
for RGB colour mixer
Cat. No. 833.74.708



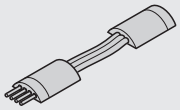
> RGB colour mixer, white,
with 4-way distributor, max. 30 W
Power consumption 0.6 W
Cat. No. 833.74.802



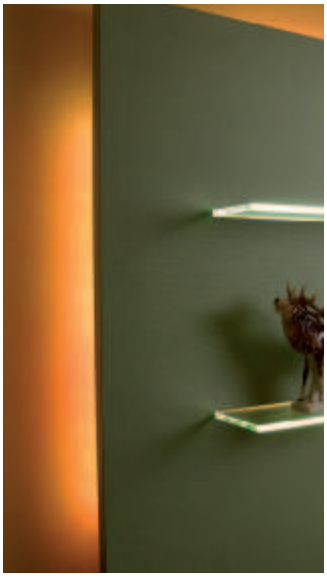
> 9-way RGB distributor
with 1 m lead
Cat. No. 833.74.741

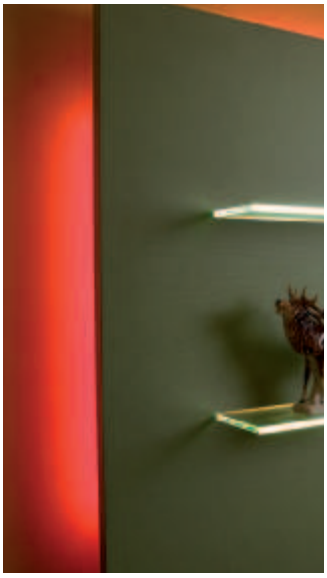


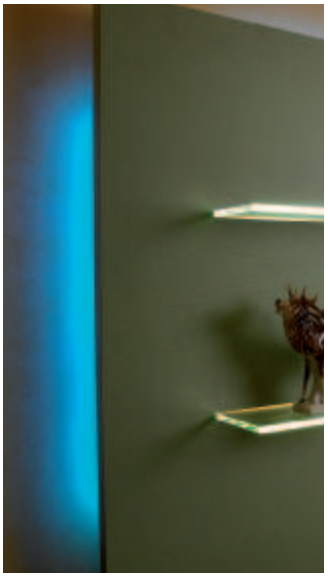
> 2.5 m RGB lead
(connection of LED strip lights
to RGB colour mixer)
Cat. No. 833.74.711



RGB interconnecting cable
(e.g. for corner connection)
> 50 mm Cat. No. 833.74.710
> 500 mm Cat. No. 833.74.762
> 1000 mm Cat. No. 833.74.777







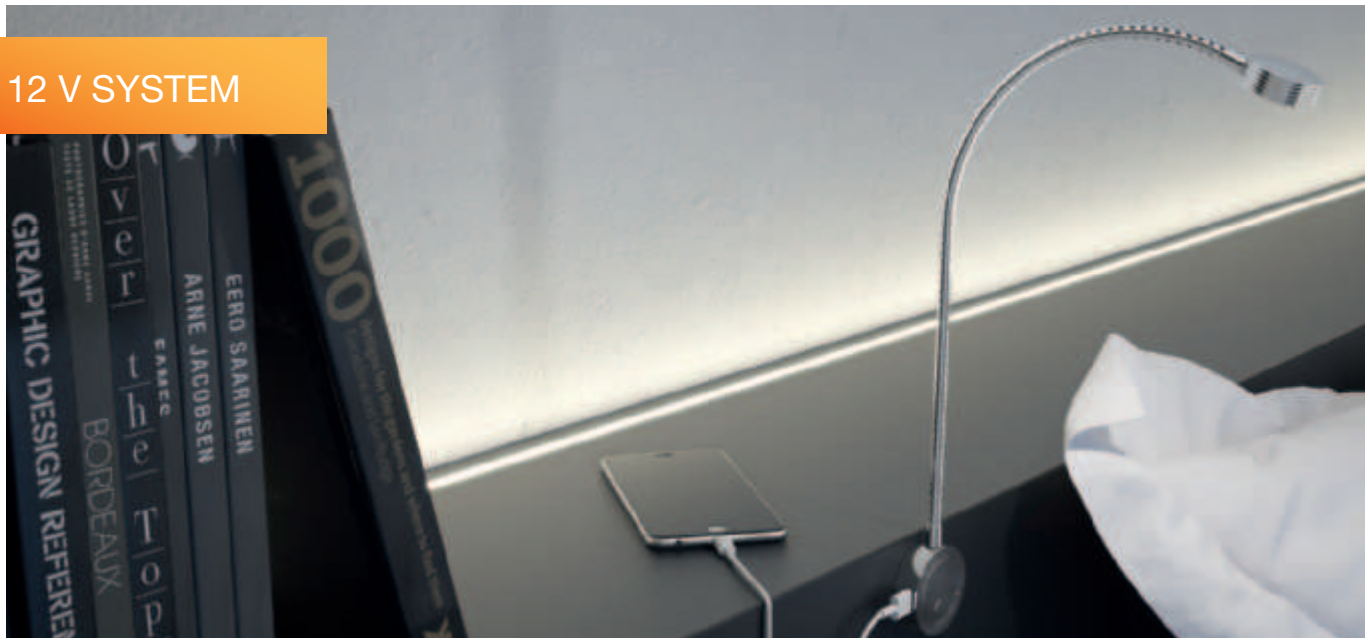
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2034/2035

FLEXIBLE LIGHT WITH USB CHARGING STATION

0 100%

12 V SYSTEM



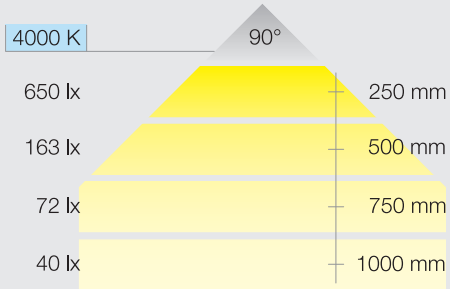
The LED 2034 flexible light does not just provide targeted spotlighting, but also makes it possible to charge a smartphone and/or a tablet because of the two integrated USB ports. The push switch that is integrated in the base makes it possible to have two brightness levels – 100 % and 50 %. An extremely good light with additional uses that can be used in home offices and bedrooms alike.
If you are looking for a flexible light without a USB charging station, the LED 2035 is the right solution.

- > Dimmable
- > Integrated push switch
- > Installation: Surface mounted

~ =

- > Driver see page 64
- > LED 2034: In order to make optimum use of the USB charging station, a driver with at least 20 W must be used
- > LED 2034: USB charging station
  Output voltage 5 V
  Output current 2 x 1 A

	LED 2034		LED 2035	
Cat. No.	**833.74.090**	**833.74.091**	**833.74.150**	**833.74.151**
Colour temperature (K)	4000 (cool white)		4000 (cool white)	
Length (mm)	450	450	450	450
Width (mm)	50	50	50	50
Height (mm)	15.5	15.5	15.5	15.5
Wattage (W)	max. 17	max. 17	1.50	1.50
Number of LEDs	3	3	3	3
Light output (lm)	105	105	105	105
Efficacy (lm/W)	70	70	70	70
Colour rendering index (CRI)	82	82	82	82
Energy efficiency category	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	1.65	1.65	1.65	1.65
Finish	Aluminium		Aluminium	
Colour	Chrome plated	Black	Chrome plated	Black
Supplied with	1 light with 2 m lead and fixing material			



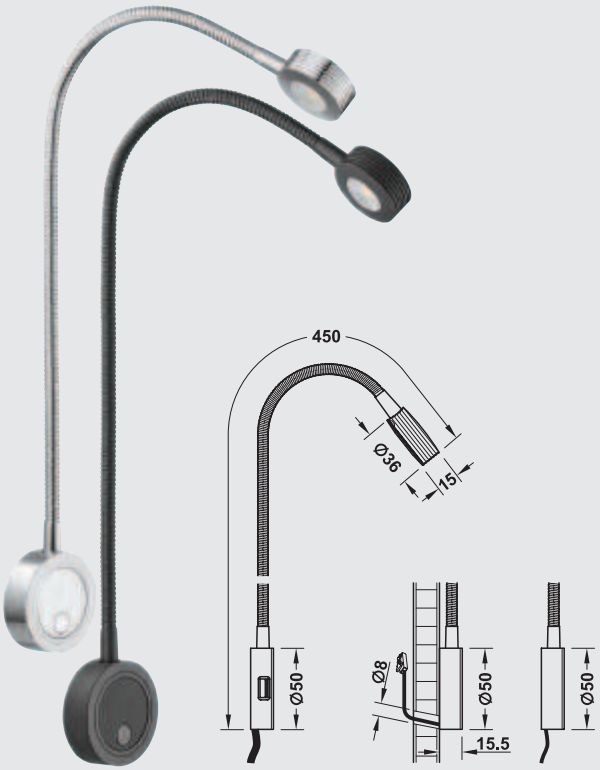
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

LED 2034/2035

LED 2034 flexible light with USB charging station
Cat. No. 833.74.090/833.74.091

LED 2035 flexible light
Cat. No. 833.74.150/833.74.151



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2018

FLEXIBLE LIGHT

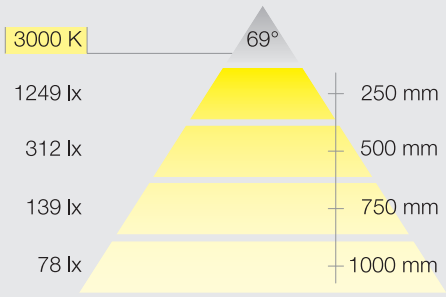
12 V SYSTEM

The flexible LED 2018 reading light can be conveniently positioned. The integrated glass lens provides a pleasant, homogeneous cone of light. The light can be switched on and off by rotating the head of the light.

> Cannot be dimmed
> With integrated rotary switch on light head
> Installation: Surface mounted or recess mounted

> Driver see page 64

Cat. No.	833.74.100	833.74.110
Colour temperature (K)	3000 (warm white)	3000 (warm white)
Length (mm)	545.5	526
Ø (mm)	32	32
Wattage (W)	2	2
Number of LEDs	1	1
Light output (lm)	89	89
Efficacy (lm/W)	45	45
Colour rendering index (CRI)	81	81
Energy efficiency category	A	A
Weighted energy consumption (kWh/1.000 h)	2.20	2.20
Finish	Aluminium, silver coloured anodized	
Installation	Surface mounted	Recess mounted
Supplied with	1 light with 2 m lead and mounting accessories	

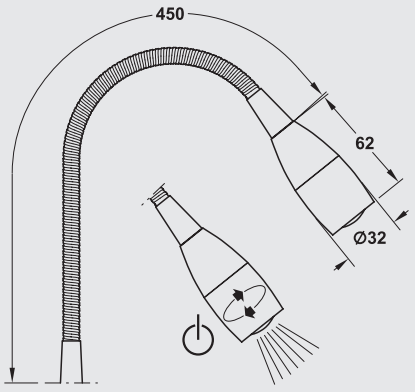


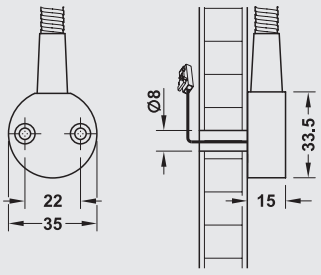
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

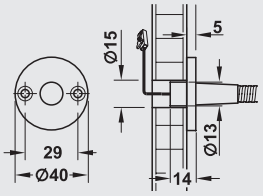
RoHS IP20

LED 2018

Suface mounted	Recess mounted
Cat. No. 833.74.100	Cat. No. 833.74.110







LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 2019

GLASS EDGE LIGHT WITH VISIBLE LIGHT POINTS

0 100%

12 V SYSTEM

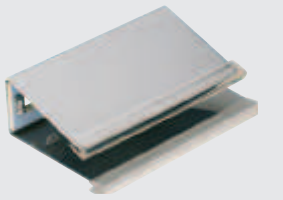
The LED 2019 opens up a wide range of possible uses. Glass panels between 6 and 12 mm thick can be used with this light.

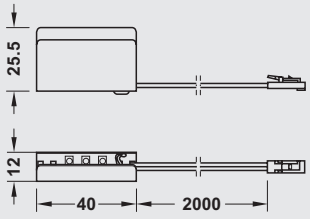
- > Dimmable
- > Without load bearing function!
- > Is pushed onto the glass shelf from the rear
- > Glass thickness 6–12 mm

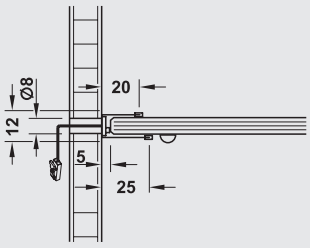
> Driver see page 64

Also pay attention to the glass edge profile on page 115.
You can create your glass edge lighting yourself using this.

Cat. No.	833.74.130	833.74.120
Colour temperature (K)	4000 (cool white)	6000 (daylight white)
Length (mm)	40	40
Width (mm)	25.5	25.5
Height (mm)	12	12
Wattage (W)	0.2	0.2
Number of LEDs	3	3
Light output (lm)	15	19
Efficacy (lm/W)	75	95
Colour rendering index (CRI)	88	84
Finish	Stainless steel, shiny	
Supplied with	1 light with 2 m lead	







LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

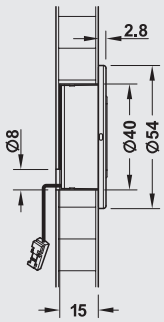
CE cULus R36733 RoHS IP20

HÄFELE

LOOX LED 2028

SENSOR-CONTROLLED PLINTH LIGHT, IP44

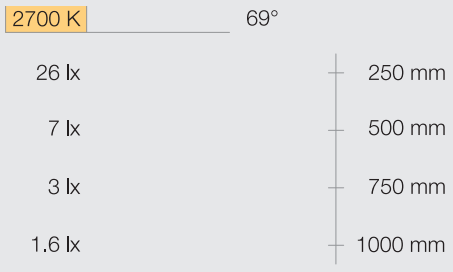
The LED 2028 is an orientation light with integrated daylight sensor and motion detector. If the residual brightness is 15 Lux or less, it becomes active and gives off light.



> Cannot be dimmed
> Drill hole Ø: 40 mm
> Installation: For mounting in drilled hole
> Delay time: approx. 4 min.

> Driver see page 64

Cat. No.	833.73.110	833.73.111
Colour temperature (K)	2700 (warm white)	2700 (warm white)
Ø (mm)	54	54
Height (mm)	17.3	17.3
Wattage (W)	0.34	0.34
Number of LEDs	3	3
Light output (lm)	4	4
Efficacy (lm/W)	12	12
Colour rendering index (CRI)	90	90
Energy efficiency category	A+	A+
Weighted energy consumption (kWh/1.000 h)	0.37	0.37
Finish	Stainless steel	
Colour	Matt	Black
Supplied with	1 light with 2 m lead and fixing material	



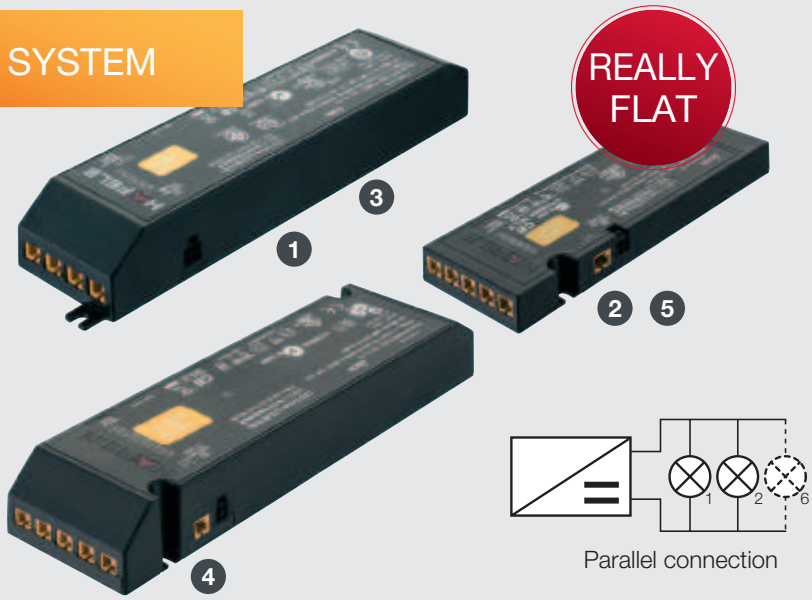
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE eac UL us R36733 RoHS IP44

LOOX LED DRIVER

CONSTANT VOLTAGE 12 V

12 V SYSTEM



Parallel connection

1. Cat. No. 833.74.900
   $\otimes_1 + \otimes_2$ +...+ $\otimes_6$ < 15 W
2. Cat. No. 833.74.917
   $\otimes_1 + \otimes_2$ +...+ $\otimes_6$ < 20 W
3. Cat. No. 833.74.901
   $\otimes_1 + \otimes_2$ +...+ $\otimes_6$ < 30 W
4. Cat. No. 833.74.913
   $\otimes_1 + \otimes_2$ +...+ $\otimes_6$ < 60 W
   max. 30 W per light output
5. Cat. No. 833.74.941
   $\otimes_1 + \otimes_2$ +...+ $\otimes_6$ < 15 W
   without switch input

The driver is the heart of the Loox system, and is suitable for connecting to all of the worlds most frequently used mains voltages and frequencies. All of the switches in the Loox product range can be connected to the drivers with a universal switch input (see pages 112–115).

> Lead length from driver to switch max. 6 m.
> Driver available in white on request.

Cat. No.	833.74.900 1	833.74.917 2	833.74.901 3	833.74.913 4	833.74.941 5
Power output (W)	0–15	0–20	0–30	0–60	0–15
Input voltage	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz
Output voltage	DC 12 V	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Output current	1.25 A	1.67 A	2.5 A	5 A	1.25 A
Stand-by power consumption	<0.5 W	<0.5 W	<0.5 W	<0.5 W	<0.5 W
Degree of protection	IP20	IP20	IP20	IP20	IP20
Number of slots for lights	6	6	6	6	6
Universal switch input	Yes	Yes	Yes	Yes	No
Colour	Black	Black	Black	Black	Black
Dimensions (L x W x H mm)	140 x 43 x 20	128 x 50.5 x 14	195 x 43 x 28	208 x 56.5 x 30	128 x 50.5 x 14
Supplied with	1 driver with mounting accessories				

Country-specific mains leads – 2 m lead length

Cat. No.	833.89.000	833.89.001	833.89.002	833.89.003	833.89.004	833.89.005	833.89.006	833.89.007	833.89.009	833.89.050
Plug design										
Designation	UK	AU	EU	US	JP	CN	KR	TW	EU	US
Supplied with	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

RoHS SELV IP20

HÄFELE

LOOX PLUG-IN DRIVER

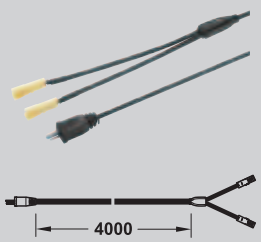
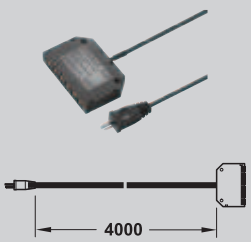
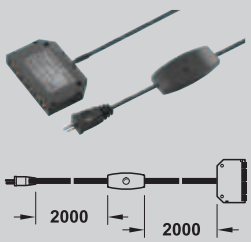
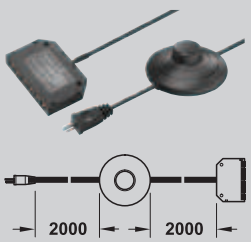
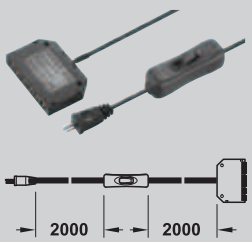
CONSTANT VOLTAGE 12 V MODULAR, WITH SOCKET FOR LEAD

12 V SYSTEM

1. Driver 6 W
   Cat. No. 833.74.933
2. Driver 15 W
   Cat. No. 833.74.935
3. Driver 27 W
   Cat. No. 833.74.937

Cat. No.	833.74.933	833.74.935	833.74.937	833.74.934	833.74.936	833.74.938
Plug design						
Designation	EU	EU	EU	US	US	US
Power output (W)	6	15	27	6	15	27
Input voltage	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz
Output voltage	DC 12 V	DC 12 V	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Stand-by power consumption	0.3 W	0.3 W	0.3 W	0.3 W	0.3 W	0.3 W
Degree of protection	IP20	IP20	IP20	IP20	IP20	IP20
Colour	Black	Black	Black	Black	Black	Black
Dim. (L x W x H mm)	61 x 37 x 57	78 x 46 x 68	84 x 50 x 72	61 x 37 x 43	78 x 46 x 54	84 x 50 x 58
Supplied with	1 plug-in driver					

Mains leads 12 V

4 m lead with 2 slots	4 m lead with 6-way distributor	4 m lead with dimmer and 6-way distributor	4 m lead with foot switch and 6-way distributor	4 m lead with rocker switch and 6-way distributor
				
833.74.749	**833.74.748**	**833.74.709**	**833.74.747**	**833.74.746**

> Switch after 2 m lead length

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

OVERVIEW

LEDs AND ACCESSORIES – 24 V SYSTEM

24 V SYSTEM

LOOX LED 3022/3023
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

> page 68

LOOX LED 3024/3025
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

> page 70

LOOX LED 3010
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

> page 72

LOOX LED 3001
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

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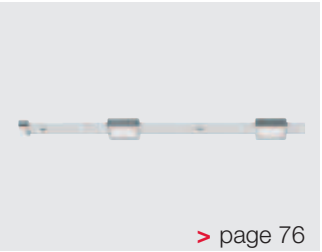
LOOX LED 3002
RECESS MOUNTED LIGHT

> page 74

LOOX LED 3005
SURFACE MOUNTED DOWNLIGHT

> page 75

LOOX LED 3006
SURFACE MOUNTED DOWNLIGHT



> page 76

LOOX LED 3021
SURFACE MOUNTED LIGHT IP44

> page 77

LOOX LED 3028
LED STRIP LIGHT, TWO ROWS, 5 m, 96 W

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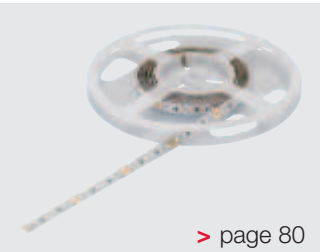
LOOX LED 3015
LED STRIP LIGHT, 5 m, 75 W



> page 80

LOOX LED 3013
LED STRIP LIGHT, 5 m, 80 W

> page 82

LOOX LED 3011
LED SILICONE STRIP LIGHT, 2 m

> page 84

LOOX LED 3018
FLEXIBLE LIGHTS

> page 86

LOOX LED 3027
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

> page 88

LOOX LED 3017
LED SILICONE STRIP LIGHT, 2 m

> page 90

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

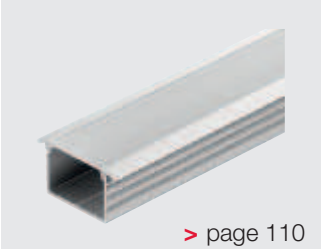
LOOX LED DRIVERS

CONSTANT VOLTAGE 24 V

> page 92

PROFILES

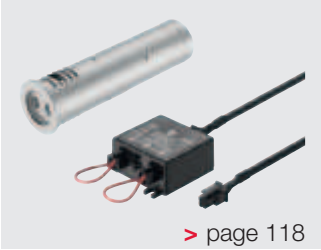
FOR LED FLEXIBLE STRIP LIGHTS



> page 110

LOOX ACCESSORIES

SWITCHES/SWITCH ACCESSORIES

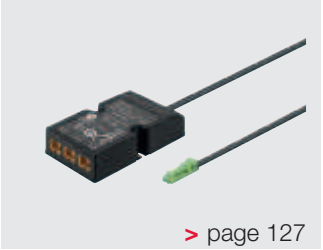


> page 118

LEADS AND DISTRIBUTORS

> page 126

CONVERTERS



> page 127

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

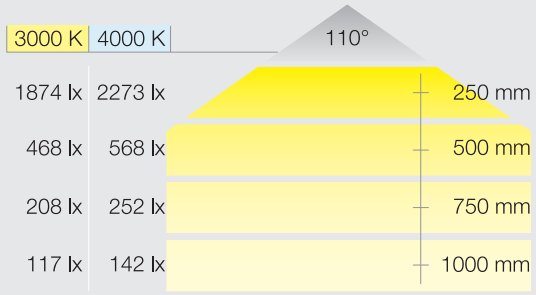
LOOX LED 3022/3023

RECESS/SURFACE MOUNTED DOWNLIGHT, ROUND SURFACE AREA LIGHT

0 100%

24 V SYSTEM

LED 3022 and LED 3023 impress with their simple elegance and homogeneous light output. They can be used universally because of their slimline appearance and round design. Combined with their extremely flat design, they make creative application solutions possible as recess mounted lights or surface mounted downlights.



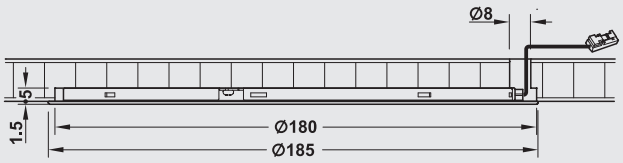
	Loox LED 3022 recess mounted light		Loox LED 3023 surface mounted downlight	
Cat. No.	**833.75.100**	**833.75.101**	**833.77.130**	**833.77.131**
Colour temperature (K)	3000 (warm white)	4000 (cool white)	3000 (warm white)	4000 (cool white)
Ø (mm)	185	185	180	180
Height (mm)	6.2	6.2	6.2	6.2
Wattage (W)	4.8	4.8	4.8	4.8
Number of LEDs	77	77	77	77
Light output (lm)	362	408	362	408
Efficacy (lm/W)	75	85	75	85
Colour rendering index (CRI)	82	82	82	82
Energy efficiency category	A++	A++	A++	A++
Weighted energy consumption (kWh/1.000 h)	5.50	5.50	5.50	5.50
Finish	Plastic, silver coloured			
Supplied with	1 light with 2 m lead and fixing material			

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

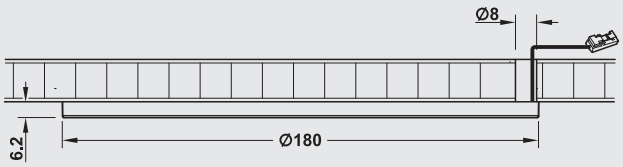
RoHS IP20

LED 3022/3023

LED 3022



LED 3023



> Dimmable

LED 3022:
> Drill hole Ø: 180 mm
> Installation: For recess mounting

LED 3023:
> Installation: For screw fixing

> Driver see page 92

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

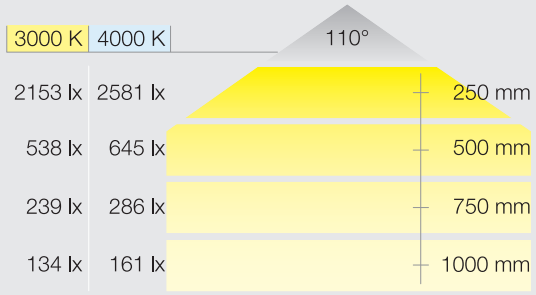
LOOX LED 3024/3025

RECESS/SURFACE MOUNTED DOWNLIGHT, SQUARE SURFACE AREA LIGHT

0 100%

24 V SYSTEM

Square design as an alternative to the classical round light. The lights can be used in an extremely variable way because of the two installation types and the extremely flat design. The extremely homogeneous light with extensive, bright illumination enhances both living areas and stores.



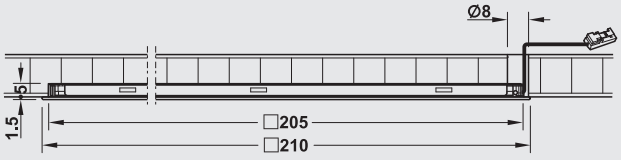
	Loox LED 3024 recess mounted light		Loox LED 3025 surface mounted downlight	
Cat. No.	**833.75.090**	**833.75.091**	**833.77.120**	**833.77.121**
Colour temperature (K)	3000 (warm white)	4000 (cool white)	3000 (warm white)	4000 (cool white)
Length (mm)	210	210	205	205
Width (mm)	210	210	205	205
Height (mm)	6.2	6.2	6.2	6.2
Wattage (W)	5.8	5.8	5.8	5.8
Number of LEDs	70	70	70	70
Light output (lm)	430	530	430	530
Efficacy (lm/W)	74	91	74	91
Colour rendering index (CRI)	82	82	82	82
Energy efficiency category	A++	A++	A++	A++
Weighted energy consumption (kWh/1.000 h)	7.15	7.15	7.15	7.15
Finish	Plastic, silver coloured			
Supplied with	1 light with 2 m lead and fixing material			

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

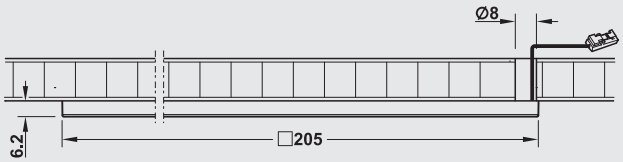
RoHS IP20

LED 3024/3025

LED 3024



LED 3025



> Dimmable

LED 3024:
> Cut-out size: 205 x 205 mm
> Installation: For recess mounting

LED 3025:
> Installation: For screw fixing

> Driver see page 92

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

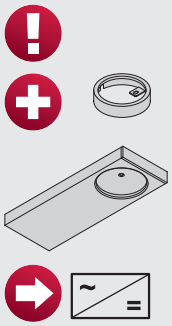
LOOX LED 3010

RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT, ROUND

0 100%

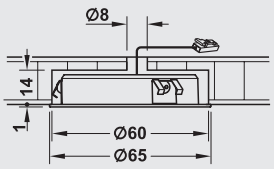
24 V SYSTEM

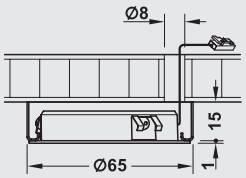
The LED 3010 provides 3 installation options and is impressive because of its bright homogeneous luminosity.

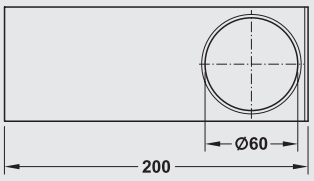


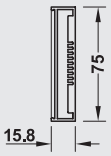
- > Dimmable
- > Drill hole Ø: 60 mm
- > Bezel, silver coloured
  Cat. No. 833.77.730
- > Housing for surface mounting, silver coloured
  Cat. No. 833.77.731

Driver see page 92









Cat. No.	833.75.040	833.75.041	833.75.042
Colour temperature (K)	3000 (warm white)	4000 (cool white)	6500 (day-light white)
Ø (mm)	65	65	65
Height (mm)	13	13	13
Wattage (W)	3.25	3.25	3.25
Number of LEDs	1	1	1
Light output (lm)	250	267	271
Efficacy (lm/W)	77	82	83
Colour rendering index (CRI)	82	84	83
Energy efficiency category	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	3.58	3.58	3.58
Finish	Aluminium, silver coloured anodized		
Supplied with	1 light and 1 frosted replacement glass, 2 m lead and mounting accessories		

3200 K	4000 K	6500 K	105°
1240 lx	1325 lx	1350 lx	250 mm
310 lx	331 lx	338 lx	500 mm
138 lx	147 lx	150 lx	750 mm
78 lx	83 lx	84 lx	1000 mm

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

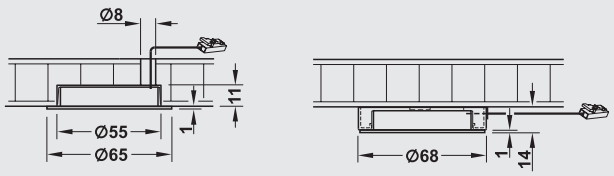
HÄFELE

LOOX LED 3001

0 100%

RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT, ROUND

The powerful LED 3001 with its prismatic cover provides variable design options with its two colour temperatures, two installation types and two housing colours.

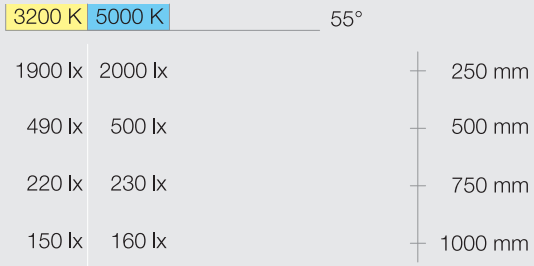


> Dimmable
> Drill hole Ø: 55 mm

> Bezel
> Silver coloured Cat. No. 833.77.710
> Black Cat. No. 833.77.711

> Driver see page 92

Cat. No.	833.75.010	833.75.011	833.75.000	833.75.001
Col. temp. (K)	3200 (warm white)		5000 (cool white)	
Ø (mm)	65	65	65	65
Height (mm)	12	12	12	12
Wattage (W)	1.7	1.7	1.7	1.7
Number of LEDs	24	24	24	24
Light output (lm)	90	90	100	100
Efficacy (lm/W)	53	53	59	59
Colour rendering index (CRI)	82	82	90	90
Energy efficiency category	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	1.82	1.82	1.82	1.82
Finish	Aluminium, with clear glass			
Colour	Silver col. anodized	Black	Silver col. anodized	Black
Supplied with	1 light with 2.5 m lead			



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

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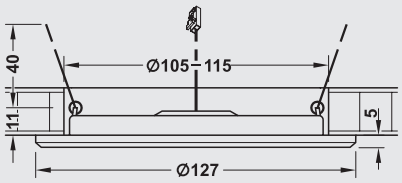
LOOX LED 3002

RECESS MOUNTED LIGHT, ROUND

24 V SYSTEM

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



> Cannot be dimmed
> Required ceiling distance of 40 mm
> Through hole mounting Ø 105–115 mm

> Driver see page 92

Cat. No.	833.75.030	833.75.020
Colour temperature (K)	3200 (warm white)	5000 (cool white)
Ø (mm)	127	127
Height (mm)	18	18
Wattage (W)	4.4	4.4
Number of LEDs	60	60
Light output (lm)	230	280
Efficacy (lm/W)	52	64
Colour rendering index (CRI)	82	90
Energy efficiency category	A+	A+
Weighted energy consumption (kWh/1.000 h)	4.18	4.18
Finish	Aluminium with clear glass, silver col. anodized	
Supplied with	1 light with 2.5 m lead	

3200 K	5000 K	60°	
3300 lx	3900 lx		250 mm
830 lx	980 lx		500 mm
360 lx	440 lx		750 mm
250 lx	300 lx		1000 mm

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

RoHS IP20

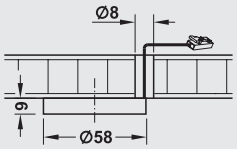
HÄFELE

LOOX LED 3005

SURFACE MOUNTED DOWNLIGHT, ROUND

0 100%

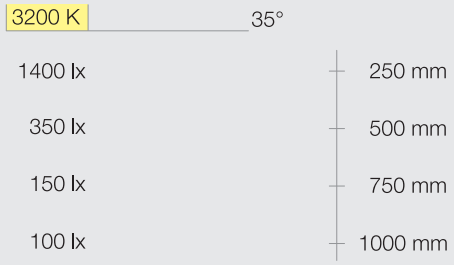
The striking appearance of the LED 3005 stylishly emphasizes the most important aspects of furniture items and furnishings.



> Dimmable
> Installation: Self-adhesive

> Driver see page 92

Cat. No.	833.76.020
Colour temperature (K)	3200 (warm white)
Ø (mm)	58
Height (mm)	9
Wattage (W)	0.8
Number of LEDs	12
Light output (lm)	40
Efficacy (lm/W)	50
Colour rendering index (CRI)	82
Energy efficiency category	A+
Weighted energy consumption (kWh/1.000 h)	0.88
Finish	Plastic, silver coloured
Supplied with	1 light with 2.5 m lead



CE UL US R36733 RoHS IP20

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 3006

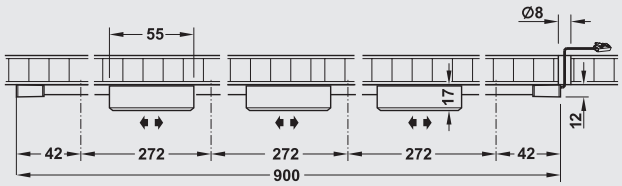
SURFACE MOUNTED DOWNLIGHT, SQUARE, SLIDING LIGHT SYSTEM

0 100%

24 V SYSTEM

The LED 3006 conductor rail light is the ideal solution that makes it possible to react to spatial changes – the lights are easy to move and position without the need for tools.

Detail



> Dimmable
> Can be shortened at one end
> Can be extended to max. 5 lights
> Single light: Wattage: 1.8 W
Dimensions (L x W x H) mm: 55 x 55 x 15
Cat. No. 833.76.060

> Driver see page 92

Cat. No.	833.76.040
Colour temperature (K)	3200 (warm white)
Length (mm)	900
Width (mm)	55
Height (mm)	17
Wattage (W)	3 x 1.8 = 5.4
Number of LEDs	3 x 25
Light output (lm)	295
Efficacy (lm/W)	55
Colour rendering index (CRI)	82
Energy efficiency category	A
Weighted energy consumption (kWh/1.000 h)	6.60
Finish	Aluminium, silver coloured anodized
Supplied with	3 lights and 1 rail with 2.5 m lead and mounting accessories

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

RoHS IP20

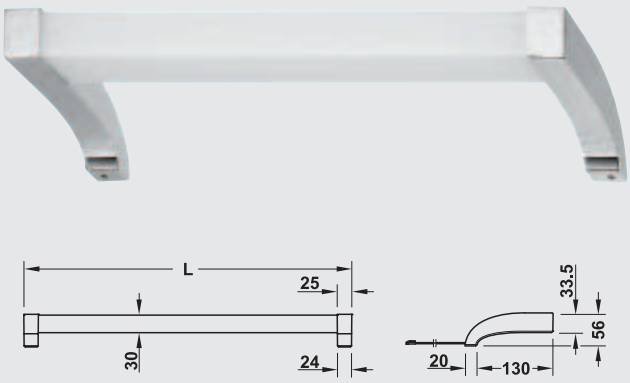
HÄFELE

LOOX LED 3021

0 100%

SURFACE MOUNTED LIGHT, BAR-SHAPED, IP44

24 V SYSTEM



The high-quality LED 3021 surface mounted light is ideal for use in bathrooms (degree of protection IP44). The light output on three sides of the rectangular cover provides extremely powerful luminance. It is available in different lengths and adapts itself perfectly to your furniture.

> Installation:
For screw fixing

> Driver see page 92

	265 mm	365 mm	465 mm	565 mm	765 mm	965 mm	1165 mm	
	4000 K							122°
	1403 lx	2018 lx	2714 lx	3426 lx	4980 lx	5386 lx	6207 lx	250 mm
	350 lx	504 lx	678 lx	856 lx	1245 lx	1346 lx	1552 lx	500 mm
	155 lx	224 lx	301 lx	380 lx	553 lx	598 lx	690 lx	750 mm
	87 lx	126 lx	170 lx	214 lx	311 lx	336 lx	388 lx	1000 mm

Cat. No.	833.77.090	833.77.091	833.77.092	833.77.093	833.77.094	833.77.095	833.77.096
Colour temperature (K)	4000 (cool white)	4000 (cool white)	4000 (cool white)	4000 (cool white)	4000 (cool white)	4000 (cool white)	4000 (cool white)
Length (mm)	265	365	465	565	765	965	1165
Depth (mm)	150	150	150	150	150	150	150
Height (mm)	56	56	56	56	56	56	56
Wattage (W)	5.5	8	10.5	13	17	20	24
Number of LEDs	56	84	112	140	182	224	280
Light output (lm)	429	624	819	1014	1326	1560	1872
Efficacy (lm/W)	78	78	78	78	78	78	78
Colour rendering index (CRI)	87	87	87	87	87	87	87
Energy efficiency category	A+	A+	A	A	A	A	A
Weighted energy consumption (kWh/1.000 h)	6.05	8.80	11.55	14.30	18.70	22.00	26.40
Finish	Zinc alloy and plastic, chrome plated						
Supplied with	1 light with 2 m lead and fixing material						

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE UL US R36733 RoHS IP44

LOOX LED 3028

LED STRIP LIGHT, TWO ROWS, 5 m, 1200 LEDs

0 100%

24 V SYSTEM

The LED 3028 two-row strip light provides an outstanding light yield and is therefore ideal for putting the emphasis on even small details. The strip light can be used universally by means of four different colour temperatures and the individually adaptable length.

- > Dimmable
- > Can be shortened every 25 mm
- > Installation: Self-adhesive
- > max. 2.5 m LED strip (60 W) can be connected to an output of the 75W driver
- > Installation only with aluminium profile
- > All aluminium profile are suitable except 833.74.840, 833.74.813 and 833.74.814

- > Driver see page 92
- > Aluminium profile see page 110

Cat. No.	833.77.173	833.77.170	833.77.171	833.77.172
Colour temperature (K)	2700 (warm white)	3000 (warm white)	4000 (cool white)	5000 (cool white)
Length (mm)	5000	5000	5000	5000
Width (mm)	12	12	12	12
Height (mm)	1.3	1.3	1.3	1.3
Wattage (W)	96 (19.2 per metre)			
Number of LEDs	1200 (240 per metre)			
Light output (lm)	7700	8090	8110	8140
Efficacy (lm/W)	80	84	84	85
Colour rendering index (CRI)	82	82	82	82
Energy efficiency category	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	21.12 per metre			
Finish	Plastic			
Supplied with	5-metre roll with 2 m lead			

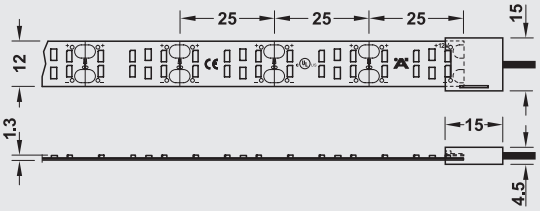
The values apply to a strip light length of 1 m.

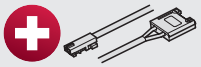
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

LED 3028 flexible strip light

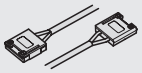
Detail





> 2 m lead
with 24 V plug system
and clip for LED strip light
Cat. No. 833.77.753

> Clip connector
Cat. No. 833.77.761



Interconnecting lead with clip
> 50 mm Cat. No. 833.77.743
> 500 mm Cat. No. 833.77.744
> 1000 mm Cat. No. 833.77.745
> 2000 mm Cat. No. 833.77.746

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 3015

LED FLEXIBLE STRIP LIGHT, 5 m, 600 LEDs

0 100%

24 V SYSTEM

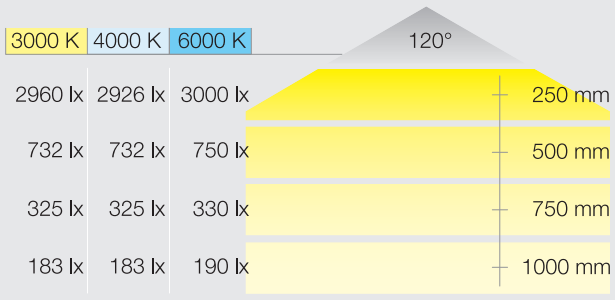
The 600 LEDs of the LED 3015 light strip generate an extremely homogeneous and continuous lighting effect. The extremely powerful LED strip light is available in three colour temperatures.
Give your lighting scenarios an individual touch. In combination with our aluminium profiles, different diffusers and installation types are available.

- > Dimmable
- > Can be shortened every 50 mm
- > Installation: Self-adhesive
- > High light intensity
- > max. 4 m LED strip light (60 W) can be connected to an output of the 75W driver
- > Installation only with aluminium profile or cooling bar

~ =

- > Driver see page 92
- > Aluminium profile see page 110
- > Cooling bar see page 116

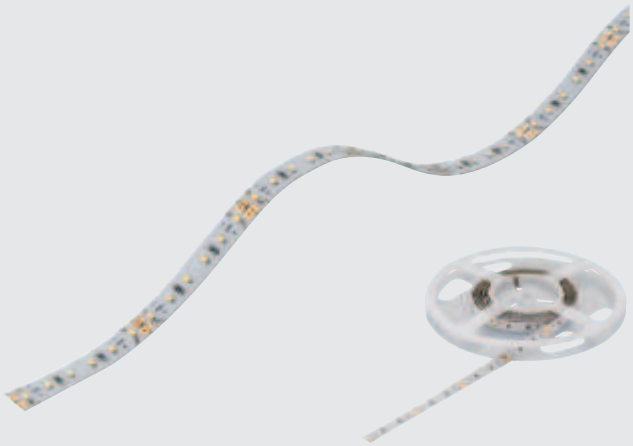
Cat. No.	833.76.080	833.76.081	833.76.082
Colour temperature (K)	3000 (warm white)	4000 (cool white)	6000 (day-light white)
Length (mm)	5000	5000	5000
Width (mm)	10	10	10
Height (mm)	1.3	1.3	1.3
Wattage (W)	75 (15 per metre)		
Number of LEDs	600 (120 per metre)		
Light output (lm)	6825	6825	7100
Efficacy (lm/W)	91	91	95
Colour rendering index (CRI)	85	83	83
Energy efficiency category	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	16.50 per metre		
Finish	LED board, white		
Supplied with	5-metre roll with 2 m lead		



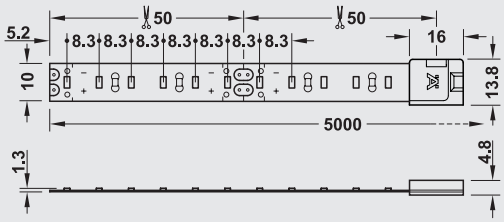
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

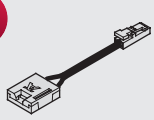
RoHS IP20

LED 3015 flexible strip light

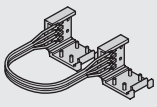


Detail



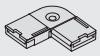


> 2 m lead
with 24 V plug system
and clip for LED strip light
Cat. No. 833.77.750



Interconnecting lead with clip
> 50 mm Cat. No. 833.77.740
> 500 mm Cat. No. 833.77.741
> 1000 mm Cat. No. 833.77.803
> 2000 mm Cat. No. 833.77.742

> Clip connector
Cat. No. 833.77.760



> Corner connector
Cat. No. 833.77.762

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 3013

LED FLEXIBLE STRIP LIGHT, 5 m, 150 LEDs

0 100%

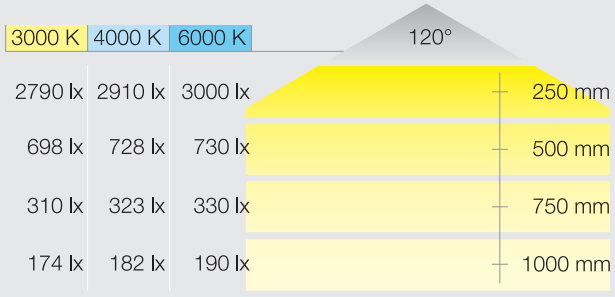
24 V SYSTEM

Because of its high light output, three colour temperatures and low space requirement, the LED 3013 strip light can be used anywhere.
Give your lighting scenarios an individual touch. In combination with our aluminium profiles, different diffusers and installation types are available.

- > Dimmable
- > Can be shortened every 200 mm
- > Installation: Self-adhesive
- > High light intensity
- > max. 3.75 m LED strip light (60 W) can be connected to an output of the 75W driver
- > Installation only with aluminium profile or cooling bar

- > Driver see page 92
- > Aluminium profile see page 110
- > Cooling bar see page 116

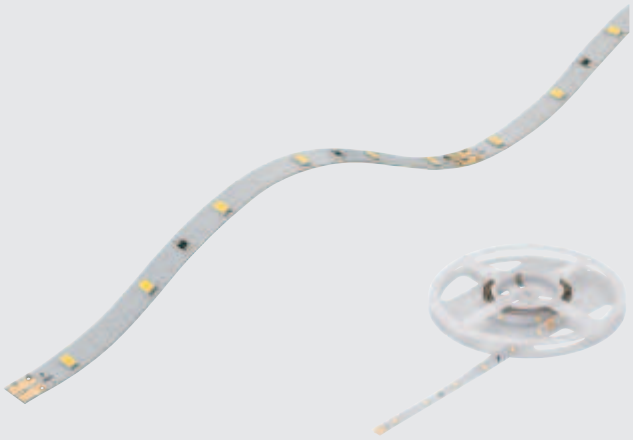
Cat. No.	833.76.070	833.76.071	833.76.072
Colour temperature (K)	3000 (warm white)	4000 (cool white)	6000 (day-light white)
Length (mm)	5000	5000	5000
Width (mm)	10	10	10
Height (mm)	1.5	1.5	1.5
Wattage (W)	80 (16 per metre)		
Number of LEDs	150 (30 per metre)		
Light output (lm)	6650	7000	7860
Efficacy (lm/W)	83	88	98
Colour rendering index (CRI)	82	83	86
Energy efficiency category	A	A	A+
Weighted energy consumption (kWh/1.000 h)	17.60 per metre		
Finish	LED board, white		
Supplied with	5-metre roll with 2 m lead		



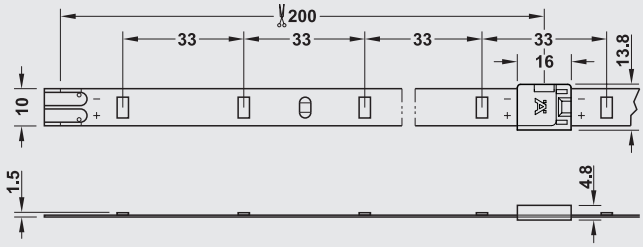
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

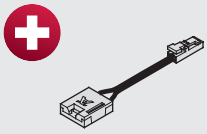
RoHS IP20

LED 3013 flexible strip light

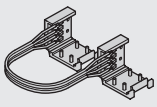


Detail



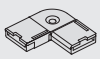


> 2 m lead
with 24 V plug system
and clip for LED strip light
Cat. No. 833.77.750



Interconnecting lead with clip
> 50 mm Cat. No. 833.77.740
> 500 mm Cat. No. 833.77.741
> 1000 mm Cat. No. 833.77.803
> 2000 mm Cat. No. 833.77.742

> Clip connector
Cat. No. 833.77.760



> Corner connector
Cat. No. 833.77.762

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 3011

LED FLEXIBLE SILICONE STRIP LIGHT, up to 2 m, 72 LEDs

0 100%

24 V SYSTEM

The LED 3011 flexible strip light is easy to process. It has a self adhesive backing and can be individually shortened. With three available colour temperatures and two lengths, the strip light can be used in many different applications.

> Dimmable
> Can be shortened every 165 mm, after every 6th LED
> Installation: Self-adhesive

> Driver see page 92

	330 mm			2000 mm			
	3000 K	4000 K	5000 K	3000 K	4000 K	5000 K	120°
	180 lx	190 lx	198 lx	333 lx	350 lx	370 lx	250 mm
	60 lx	63 lx	66 lx	162 lx	170 lx	180 lx	500 mm
	28 lx	30 lx	31 lx	99 lx	105 lx	110 lx	750 mm
	15 lx	16 lx	17 lx	68 lx	72 lx	75 lx	1000 mm

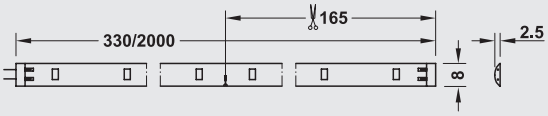
Cat. No.	833.77.020	833.77.021	833.77.030	833.77.031	833.77.040	833.77.041
Colour temperature (K)	3000 (warm white)		4000 (cool white)		5000 (cool white)	
Length (mm)	330	2000	330	2000	330	2000
Width (mm)	8	8	8	8	8	8
Height (mm)	2.5	2.5	2.5	2.5	2.5	2.5
Wattage (W)	0.9	5.6	0.9	5.6	0.9	5.6
Number of LEDs	12	72	12	72	12	72
Light output (lm)	54	336	57	355	60	373
Efficacy (lm/W)	60	60	63	63	67	67
Colour rendering index (CRI)	82	82	82	82	90	90
Energy efficiency category	A+	A+	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	0.88	5.50	0.88	5.50	0.88	5.50
Finish	Plastic, white		Plastic, white		Plastic, white	
Supplied with	1 LED strip light without lead		1 LED strip light without lead		1 LED strip light without lead	

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE cULus R36733 RoHS IP20

LED 3011 flexible strip light

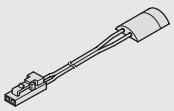
Detail



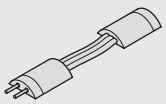
Corner connector, left
Length: 156.5 mm; Wattage: 0.4 W
6 LEDs
> with 3000 K Cat. No. 833.77.053
> with 4000 K Cat. No. 833.77.054
> with 5000 K Cat. No. 833.77.055

Corner connector, right
Length: 156.5 mm; Wattage: 0.4 W
6 LEDs
> with 3000 K Cat. No. 833.77.056
> with 4000 K Cat. No. 833.77.057
> with 5000 K Cat. No. 833.77.058

T-piece
Length: 166.5 mm; Wattage: 0.4 W
6 LEDs
> with 3000 K Cat. No. 833.77.050
> with 4000 K Cat. No. 833.77.051
> with 5000 K Cat. No. 833.77.052



> 2 m lead (connection between flexible strip lights and driver) Cat. No. 833.77.796



Interconnecting lead
> 50 mm Cat. No. 833.77.790
> 500 mm Cat. No. 833.77.791
> 1000 mm Cat. No. 833.77.801
> 1500 mm Cat. No. 833.77.792

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 3018

FLEXIBLE LIGHT

0 100%

24 V SYSTEM

The flexible and dimmable LED 3018 light is easy to position. Operation takes place using the touch switch on the light head.

> With integrated dimmer on light head
> Installation: Recess mounted or surface mounted

> Driver see page 92

Detail

Cat. No.	833.77.000	833.77.001
Colour temperature (K)	4000 (cool white)	4000 (cool white)
Ø (mm)	60	60
Length (mm)	520	520
Wattage (W)	2.75	2.75
Number of LEDs	30	30
Light output (lm)	165	165
Efficacy (lm/W)	60	60
Colour rendering index (CRI)	80	80
Energy efficiency category	A	A
Weighted energy consumption (kWh/1.000 h)	3.03	3.03
Installation	Recess mounted	Surface mounted
Finish	Plastic, silver coloured	
Supplied with	1 light with 2 m lead and mounting accessories	

4000 K — 67°

1807 lx	250 mm
452 lx	500 mm
201 lx	750 mm
113 lx	1000 mm

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

RoHS IP20

LED 3018

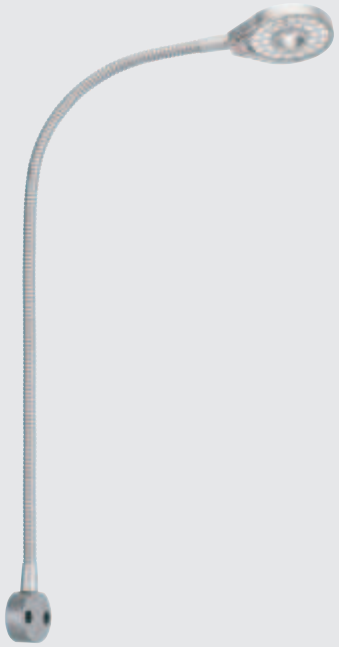
Recess mounted

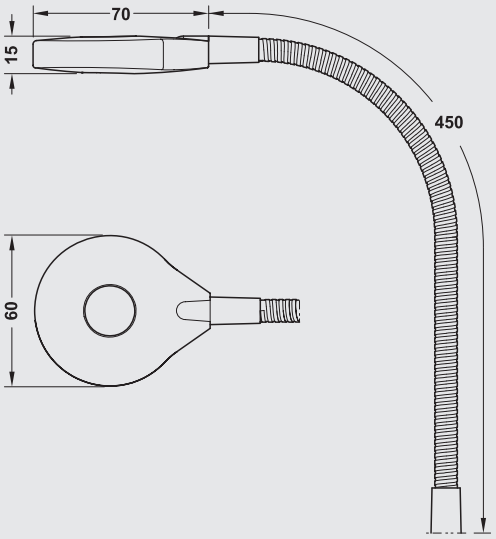
Cat. No. 833.77.000

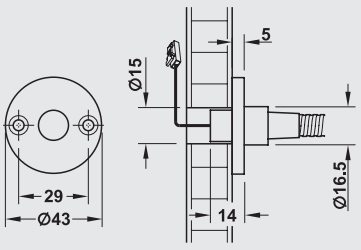
Suface mounted

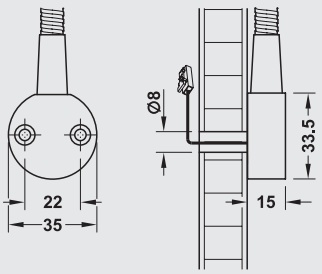
Cat. No. 833.77.001

DIMMABLE BY FINGER TOUCH









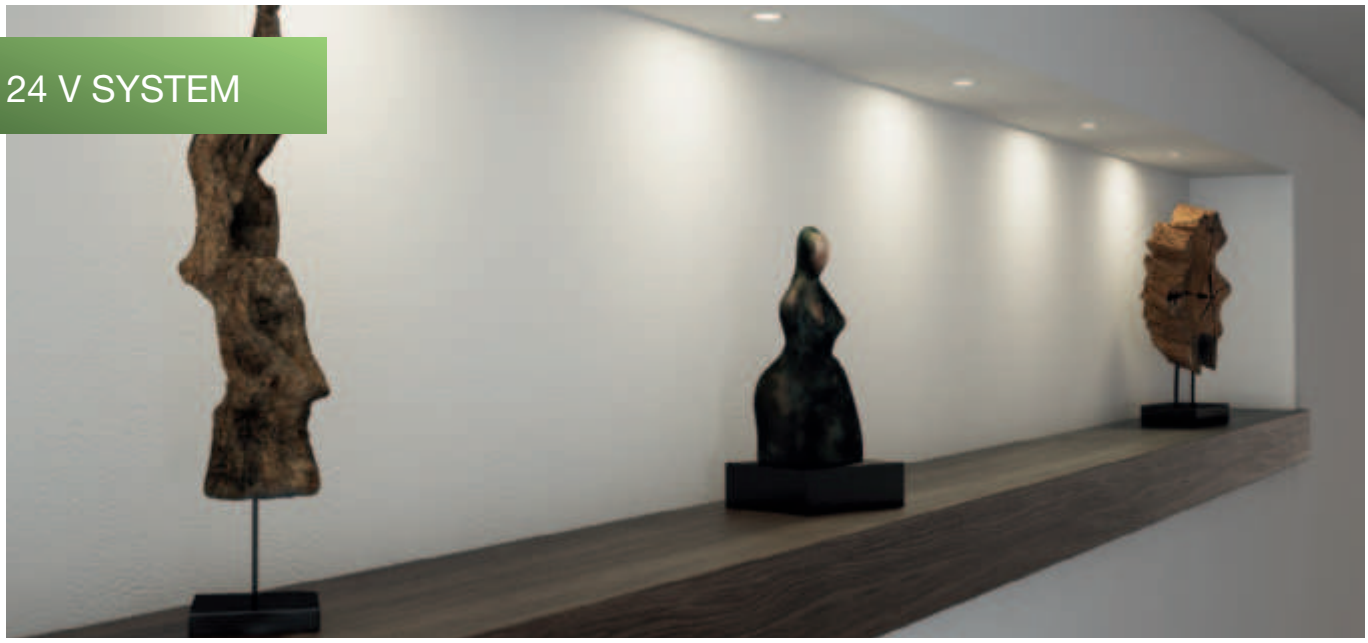
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 3027

RECESS/SURFACE MOUNTED DOWNLIGHT, ROUND, IP44, MULTI WHITE

0 100%

24 V SYSTEM



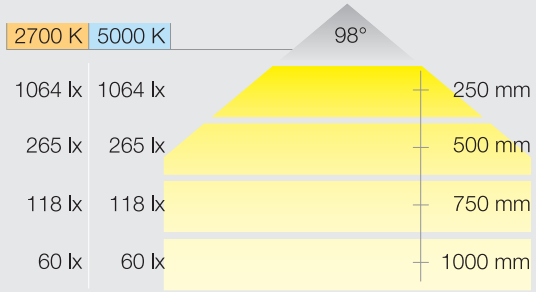
The stylish LED 3027 makes a smooth change from cool white to warm white possible and therefore different lighting moods. It has many applications, is suitable for living areas, and can also be used in bathrooms because of its degree of protection of IP44. In combination with the multi white remote radio control, a dimming function is available and different lighting scenarios can be stored.

warm white
cool white

- > Drill hole Ø: 58 mm
- > Colour temperature can be adjusted with the multi white mixer
- > Maximum of 60 Watts can be connected to the multi white mixer
- > Max. 10 multi white mixers can be controlled with 1 remote control within a radius of 15 m
- > Installation: For mounting in drilled hole, with clip fastener or for screw fixing

> Driver see page 92

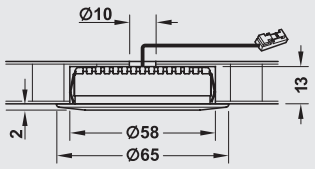
Cat. No.	833.75.051	833.75.050
Colour temperature (K)	2700 (warm white) up to 5000 (cool white)	
Ø (mm)	65	65
Height (mm)	15	15
Degree of protection	IP44 as recess mounted light; IP20 with bezel (surface mounted downlight)	
Wattage (W)	2.9	2.9
Number of LEDs	60	60
Light output (lm)	205	205
Efficacy (lm/W)	71	71
Colour rendering index (CRI)	90	90
Energy efficiency category	A+	A+
Weighted energy consumption (kWh/1.000 h)	3.19	3.19
Finish	Plastic	
Colour	Silver col. anodized	Nickel plated matt
Supplied with	1 light with 2 m lead and fixing material	

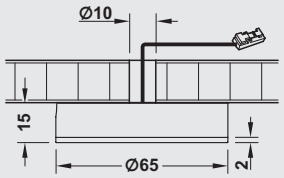


LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20 IP44

3027 recess mounted light/surface mounted downlight





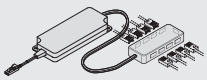
Bezel

> Nickel plated matt
Cat. No. 833.75.740

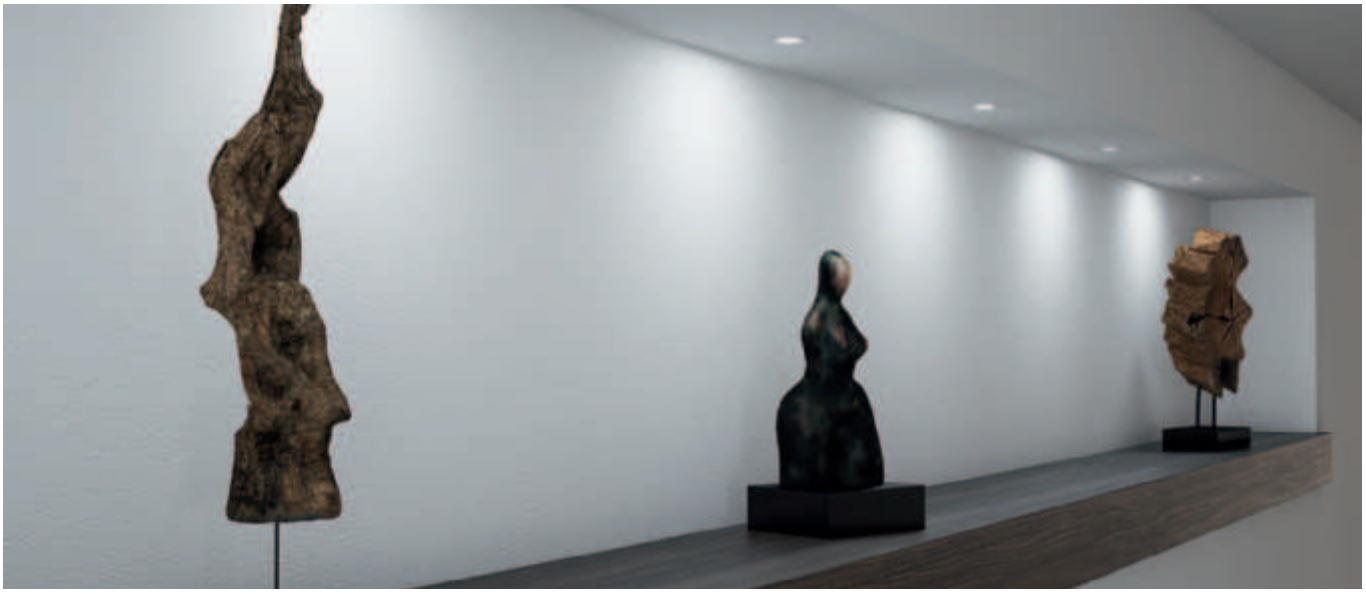
> Silver coloured anodized
Cat. No. 833.75.741

With a bezel the degree of protection is IP20.

> Remote control
for multi white mixer
Cat. No. 833.77.786



> Multi white mixer
with 8-way distributor, max. 60 W
Power consumption 0.6 W
Cat. No. 833.77.787



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX LED 3017

LED SILICONE STRIP LIGHT, up to 2 m, 144 MULTI WHITE LEDs

0 100%

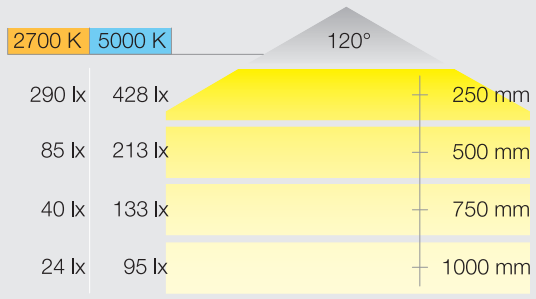
24 V SYSTEM

With the flexible LED 3017 LED strip light, different lighting moods can be created by means of a smooth transformation from warm white to cool white light.

- > Dimmable via multi white mixer
- > Can be shortened every 165 mm, after every 12th LED
- > Colour temperature adjustable using multi white mixer
- > max. 60 Watts can be connected to the multi white mixer
- > max. 10 multi white mixers can be controlled with 1 remote control within a radius of 15 m

> Driver see page 92

Cat. No.	833.77.010	833.77.011
Colour temperature (K)	2700 (warm white) up to 5000 (cool white)	
Length (mm)	330	2000
Width (mm)	10	10
Height (mm)	3	3
Wattage (W)	1.8	11
Number of LEDs	24	144
Light output (lm)	70	400
Efficacy (lm/W)	39	36
Colour rendering index (CRI)	93	93
Energy efficiency category	A+	A
Weighted energy consumption (kWh/1.000 h)	1.98	12.10
Finish	LED board, white	
Supplied with	1 LED strip light without lead	

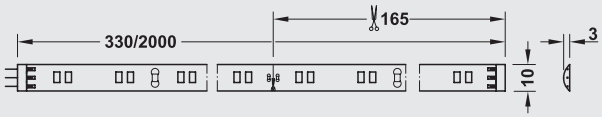


LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

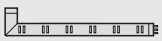
CE cULus R36733 RoHS IP20

LED 3017 flexible strip light

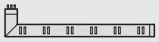
Detail



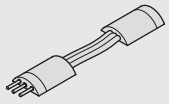
> T-connector
Length: 166.5 mm; Wattage: 0.9 W
12 LEDs Cat. No. 833.77.770



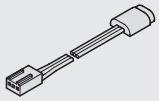
> Corner connector, left
Length: 157.5 mm; Wattage: 0.9 W
12 LEDs Cat. No. 833.77.771



> Corner connector, right
Length: 157.5 mm; Wattage: 0.9 W
12 LEDs Cat. No. 833.77.772

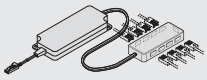


Interconnecting lead
> 50 mm Cat. No. 833.77.793
> 500 mm Cat. No. 833.77.794
> 1000 mm Cat. No. 833.77.802
> 1500 mm Cat. No. 833.77.795

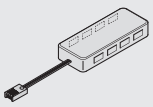


> 2 m lead
Cat. No. 833.77.797

> Remote control
for multi white mixer
Cat. No. 833.77.786



> Multi white mixer
with 8-way distributor, max. 60 W
Power consumption 0.6 W
Cat. No. 833.77.787



> 8-way distributor
Cat. No. 833.77.721

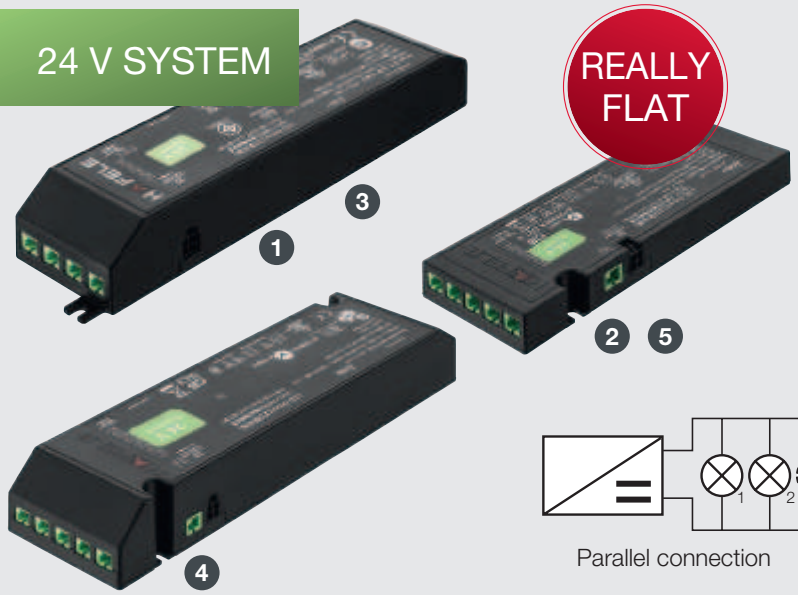
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

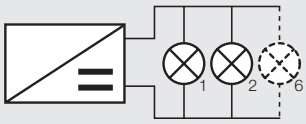
LOOX LED DRIVER

CONSTANT VOLTAGE 24 V

24 V SYSTEM

REALLY FLAT





Parallel connection

1. Cat. No. 833.77.900 ⊗1 + ⊗2 +...+ ⊗6 < 15 W
2. Cat. No. 833.77.912 ⊗1 + ⊗2 +...+ ⊗6 < 20 W
3. Cat. No. 833.77.901 ⊗1 + ⊗2 +...+ ⊗6 < 30 W
4. Cat. No. 833.77.914 ⊗1 + ⊗2 +...+ ⊗6 < 75 W **max. 60 W per light output**
5. Cat. No. 833.77.936 ⊗1 + ⊗2 +...+ ⊗6 < 15 W **without switch input**

The driver is the heart of the Loox system, and is suitable for connecting to all of the worlds most frequently used mains voltages and frequencies. All of the switches in the Loox product range can be connected to the drivers with a universal switch input (see pages 112–115).

> Lead length from driver to switch max. 6 m.
> Driver available in white on request.

Cat. No.	833.77.900 1	833.77.912 2	833.77.901 3	833.77.914 4	833.77.936 5
Power output (W)	0–15	0–20	0–30	0–75	0–15
Input voltage	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz
Output voltage	DC 24 V	DC 24 V	DC 24 V	DC 24 V	DC 24 V
Output current	0.625 A	0.83 A	1.25 A	3.15 A	0.625 A
Stand-by power consumption	<0.5 W	<0.5 W	<0.5 W	<0.5 W	<0.5 W
Degree of protection	IP20	IP20	IP20	IP20	IP20
Number of slots for lights	6	6	6	6	6
Universal switch input	Yes	Yes	Yes	Yes	No
Colour	Black	Black	Black	Black	Black
Dimensions (L x W x H mm)	140 x 43 x 20	128 x 50.5 x 14	195 x 43 x 28	208 x 56.5 x 30	128 x 50.5 x 14
Supplied with	1 driver with mounting accessories				

Country-specific mains leads – 2 m lead length

Cat. No.	833.89.000	833.89.001	833.89.002	833.89.003	833.89.004	833.89.005	833.89.006	833.89.007	833.89.009	833.89.050
Plug design										
Designation	UK	AU	EU	US	JP	CN	KR	TW	EU	US
Supplied with	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece

LOOX.2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

OVERVIEW

LEDs AND ACCESSORIES – 350 mA SYSTEM

350 mA SYSTEM

LOOX LED 4009
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

> page 94

LOOX LED 4004
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

> page 96

LOOX LED 4005
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT

> page 97

LOOX LED 4014
RECESS MOUNTED LIGHT

> page 98

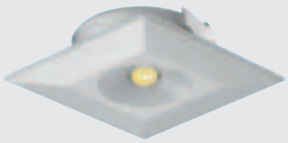
LOOX LED 4012
RECESS MOUNTED LIGHT

> page 99

LOOX LED 4007
RECESS MOUNTED LIGHT

> page 100

LOOX LED 4003
RECESS MOUNTED LIGHT



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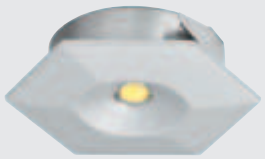
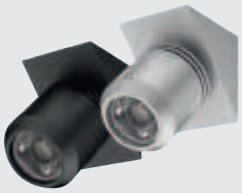
LOOX LED 4006
RECESS MOUNTED LIGHT



> page 102

LOOX LED 4013
SURFACE MOUNTED DOWNLIGHT



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LOOX LED 4010
SURFACE MOUNTED LIGHT

> page 104

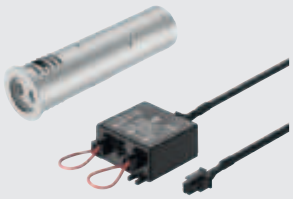
LOOX LED 4011
SURFACE MOUNTED LIGHT

> page 105

LOOX LED DRIVERS
CONSTANT CURRENT 350 mA

> page 106

LOOX ACCESSORIES
SWITCHES/SWITCH ACCESSORIES



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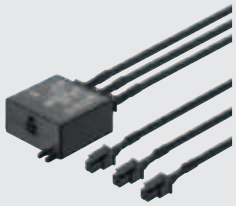
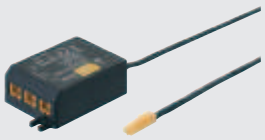
MULTI DRIVER BOX



> page 125

CONVERTERS



> page 127

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

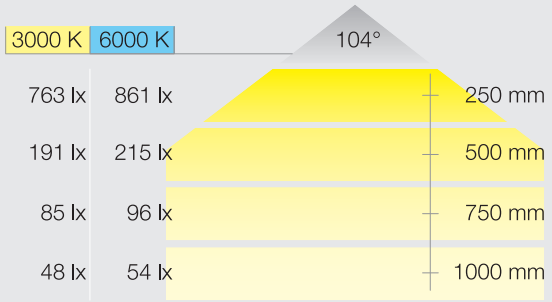
LOOX LED 4009

RECESS/SURFACE MOUNTED DOWNLIGHT, ROUND/TRIANGULAR

0 100%

350 mA SYSTEM

The LED 4009 recess mounted light has three extra-powerful LEDs and therefore generates powerful, directed light. Three different mounting options are available for design purposes.

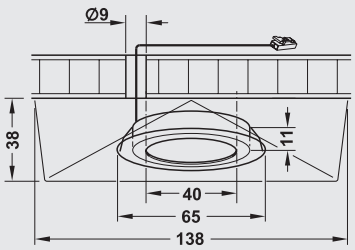


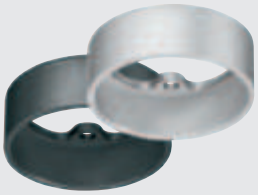
Cat. No.	833.78.140	833.78.142	833.78.151	833.78.154
Colour temperature (K)	3000 (warm white)		6000 (daylight white)	
Ø (mm)	65	65	65	65
Height (mm)	15	15	15	15
Wattage (W)	3.85	3.85	3.85	3.85
Number of LEDs	3	3	3	3
Light output (lm)	160	160	176	176
Efficacy (lm/W)	42	42	46	46
Colour rendering index (CRI)	82	82	82	82
Energy efficiency category	A	A	A	A
Weighted energy consumption (kWh/1.000 h)	3.30	3.30	3.30	3.30
Finish	Aluminium	Aluminium	Aluminium	Aluminium
Colour	Nickel plated matt	Black	Nickel plated matt	Black
Supplied with	1 light with 2 m lead		1 light with 2 m lead	

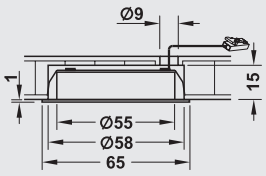
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

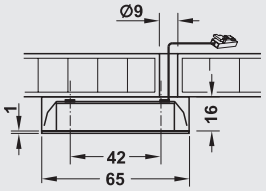
CE UL us R36733 RoHS IP20

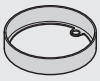
LED 4009



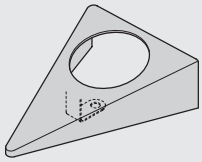








Bezel for surface mounting;
Dimensions (Ø x H) mm: 65 x 16
> Nickel plated matt
Cat. No. 833.80.710
> Black
Cat. No. 833.80.712



Triangular housing
for surface mounting;
Dim. (L x W x H) mm: 121 x 125 x 44
> Nickel plated matt
Cat. No. 833.80.711
> Black
Cat. No. 833.80.713

> Dimmable
> Drill hole Ø: 58 mm
> Metal housing

> Driver see page 106

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

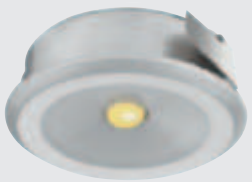
LOOX LED 4004

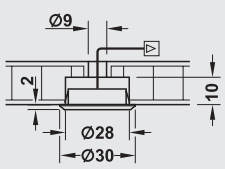
RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT, ROUND

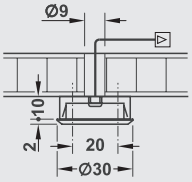
0 100%

350 mA SYSTEM

The small and slimline LED 4004 puts objects firmly in the spotlight in the recess mounted and down lit area.



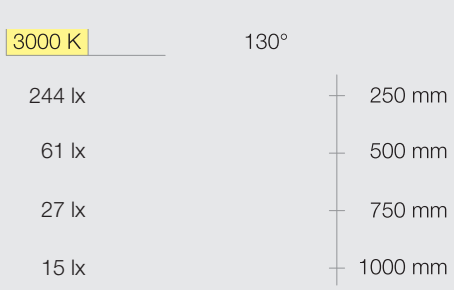




- > Dimmable
- > Bezel for surface mounting supplied
- > 3-piece set
- > Drill hole Ø: 28 mm

> Driver see page 106

Cat. No.	833.78.080
Colour temperature (K)	3000 (warm white)
Ø (mm)	31
Height (mm)	12
Wattage (W)	1
Number of LEDs	1
Light output (lm)	80
Efficacy (lm/W)	80
Colour rendering index (CRI)	80
Energy efficiency category	A+
Weighted energy consumption (kWh/1.000 h)	1.10
Finish	Plastic, silver coloured
Supplied with	3 lights with 2 m lead each and mounting accessories



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

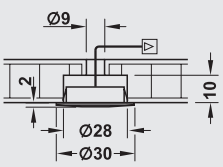
RoHS IP20

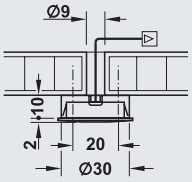
HÄFELE

LOOX LED 4005

0 100% RECESS MOUNTED LIGHT/SURFACE MOUNTED DOWNLIGHT, ROUND WITH LENS

The LED 4005 can be used as a recess mounted or surface mounted light. The extremely small and flat design makes the light easy to integrate in the furniture design.
The integrated lens also centres and intensifies the light spot.

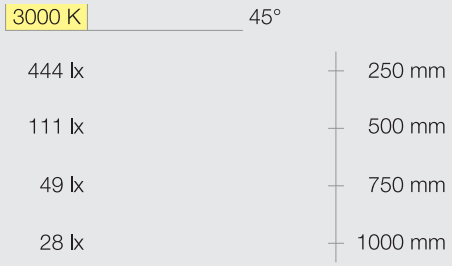




- > Dimmable
- > Bezel for surface mounting supplied
- > 3-piece set
- > Drill hole Ø: 28 mm

~ ⎓ > Driver see page 106

Cat. No.	833.78.100
Colour temperature (K)	3000 (warm white)
Ø (mm)	30
Height (mm)	12
Wattage (W)	1
Number of LEDs	1
Light output (lm)	63
Efficacy (lm/W)	63
Colour rendering index (CRI)	80
Energy efficiency category	A+
Weighted energy consumption (kWh/1.000 h)	1.10
Finish	Plastic, silver coloured
Supplied with	3 lights with 2 m lead each and mounting accessories



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

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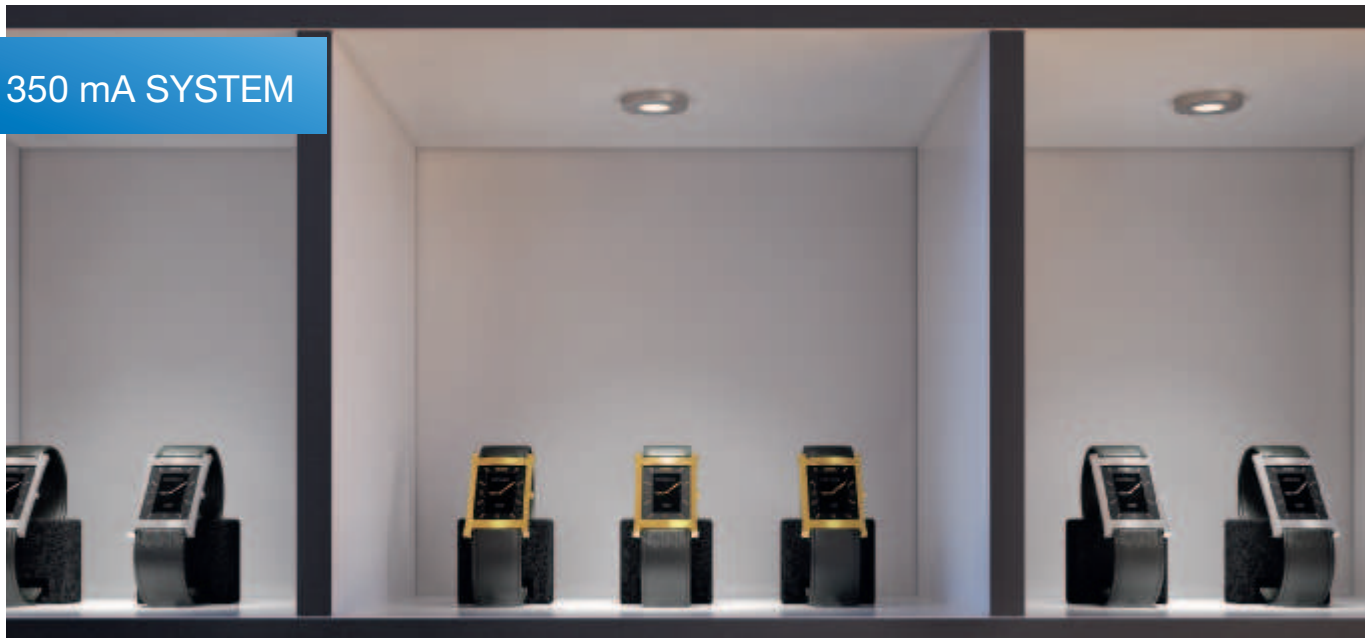
LOOX LED 4014

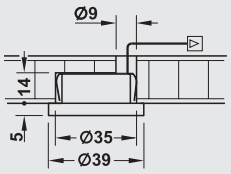
RECESS MOUNTED LIGHT, ROUND

0 100%

350 mA SYSTEM



The LED 4014 is impressive because of its top quality design and compact dimensions. It is available in two colour temperatures.



- > Dimmable
- > Small design
- > High luminosity
- > Drill hole ø: 35 mm
- > Metal housing

> Driver see page 106

Cat. No.	833.78.060	833.78.061
Colour temperature (K)	4000 (cool white)	6000 (daylight white)
Ø (mm)	39	39
Height (mm)	20	20
Wattage (W)	1	1
Number of LEDs	1	1
Light output (lm)	89	91
Efficacy (lm/W)	89	91
Colour rendering index (CRI)	85	83
Energy efficiency category	A+	A+
Weighted energy consumption (kWh/1.000 h)	1.10	1.10
Finish	Aluminium, silver col. anodized, brushed	
Supplied with	1 light with 2 m lead and mounting accessories	

4000 K	6000 K	25°
4000 lx	4513 lx	250 mm
2300 lx	2432 lx	500 mm
800 lx	840 lx	750 mm
330 lx	339 lx	1000 mm

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HÄFELE

LOOX LED 4012

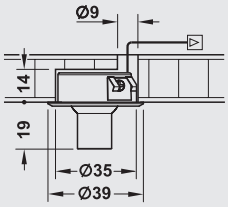
RECESS MOUNTED SPOTLIGHT, SWIVEL FUNCTION

0 100%

With the swivelling light head and high light intensity presentation objects can be put in the spotlight.

> Dimmable
> Swivelling light head
> Powerful spotlight
> Drill hole Ø: 35 mm
> Metal housing

> Driver see page 106



Cat. No.	833.78.090	833.78.091	833.78.092	833.78.093
Colour temperature (K)	4000 (cool white)		6000 (daylight white)	
Ø (mm)	39	39	39	39
Height (mm)	31	31	31	31
Wattage (W)	1	1	1	1
Number of LEDs	1	1	1	1
Light output (lm)	79	79	90	90
Efficacy (lm/W)	79	79	90	90
Colour rendering index (CRI)	85	85	82	82
Energy efficiency category	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	1.10	1.10	1.10	1.10
Finish	Aluminium			
Colour	Silver col. anodized	Black	Silver col. anodized	Black
Supplied with	1 light with 2 m lead			

4000 K	6000 K	24°
4950 lx	5600 lx	250 mm
1500 lx	1525 lx	500 mm
895 lx	995 lx	750 mm
410 lx	425 lx	1000 mm

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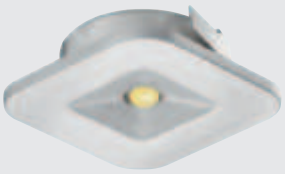
LOOX LED 4007

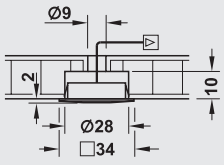
RECESS MOUNTED LIGHT, SQUARE, ROUNDED

0 100%

350 mA SYSTEM

The LED 4007 light spot emphasizes the effect of objects in furniture items.

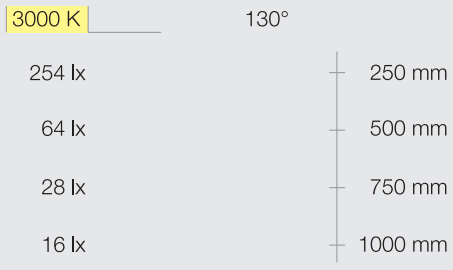




> Dimmable
> 3-piece set
> Drill hole Ø: 28 mm

> Driver see page 106

Cat. No.	833.78.020
Colour temperature (K)	3000 (warm white)
Length (mm)	34
Width (mm)	34
Height (mm)	12
Wattage (W)	1
Number of LEDs	1
Light output (lm)	73
Efficacy (lm/W)	73
Colour rendering index (CRI)	83
Energy efficiency category	A+
Weighted energy consumption (kWh/1.000 h)	1.10
Finish	Plastic, silver coloured anodized
Supplied with	3 lights with 2 m lead each and mounting accessories



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

RoHS IP20

HÄFELE

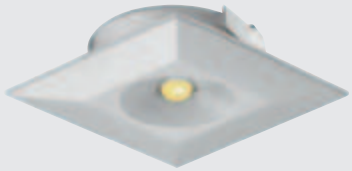
LOOX LED 4003

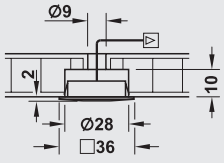
RECESS MOUNTED LIGHT, SQUARE

0 100%

350 mA SYSTEM

With its small and flat design, the LED 4003 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.



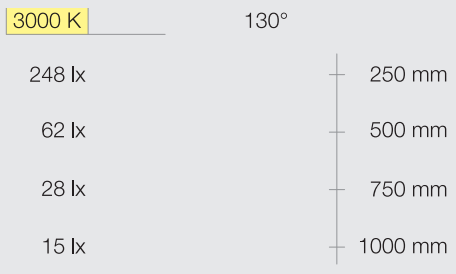


- > Dimmable
- > 3-piece set
- > Drill hole Ø: 28 mm

~ =

> Driver see page 106

Cat. No.	833.78.040
Colour temperature (K)	3000 (warm white)
Length (mm)	36
Width (mm)	36
Height (mm)	12
Wattage (W)	1
Number of LEDs	1
Light output (lm)	68
Efficacy (lm/W)	68
Colour rendering index (CRI)	85
Energy efficiency category	A+
Weighted energy consumption (kWh/1.000 h)	1.10
Finish	Plastic, silver coloured
Supplied with	3 lights with 2 m lead each and mounting accessories



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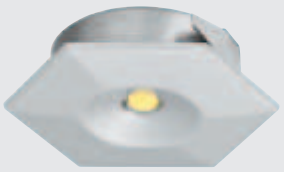
LOOX LED 4006

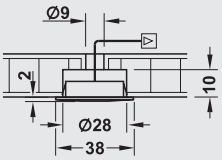
RECESS MOUNTED LIGHT, HEXAGONAL

0 100%

350 mA SYSTEM

The LED 4006 has a slimline and flat design.
Exciting light effects can be created with this light.

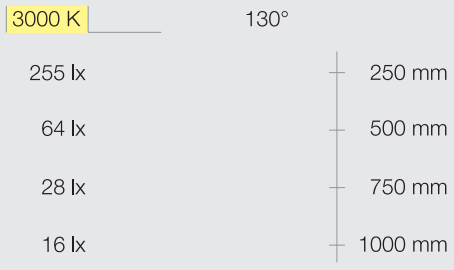




> Dimmable
> 3-piece set
> Drill hole Ø: 28 mm

> Driver see page 106

Cat. No.	833.78.000
Colour temperature (K)	3000 (warm white)
Length (mm)	38
Width (mm)	33
Height (mm)	12
Wattage (W)	1
Number of LEDs	1
Light output (lm)	75
Efficacy (lm/W)	75
Colour rendering index (CRI)	80
Energy efficiency category	A+
Weighted energy consumption (kWh/1.000 h)	1.10
Finish	Plastic, silver coloured
Supplied with	3 lights with 2 m lead each and mounting accessories



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

RoHS IP20

HÄFELE

LOOX LED 4013

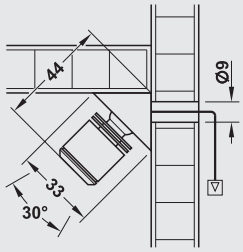
0 100%

SURFACE MOUNTED SPOTLIGHT FOR CORNER APPLICATION

The LED 4013 is characterised by its compact design, a high light intensity and a swivelling light head.

> Dimmable
> Space saving and inconspicuous
> Two installation types:
Glue fixing or screw fixing

> Driver see page 106



Cat. No.	833.79.060	833.79.062	833.79.061	833.79.063
Colour temperature (K)	4000 (cool white)		6000 (daylight white)	
Length (mm)	33	33	33	33
Width (mm)	22	22	22	22
Height (mm)	42	42	42	42
Wattage (W)	1	1	1	1
Number of LEDs	1	1	1	1
Light output (lm)	64	64	71	71
Efficacy (lm/W)	64	64	71	71
Colour rendering index (CRI)	87	87	85	85
Energy efficiency category	A+	A+	A+	A+
Weighted energy consumption (kWh/1.000 h)	1.10	1.10	1.10	1.10
Finish	Aluminium			
Colour	Sil.col.an.	Black	Sil.col.an..	Black
Supplied with	1 light with 2 m lead and mounting accessories			

4000 K	6000 K	21°
2500 lx	2800 lx	250 mm
1500 lx	1600 lx	500 mm
500 lx	585 lx	750 mm
150 lx	287 lx	1000 mm

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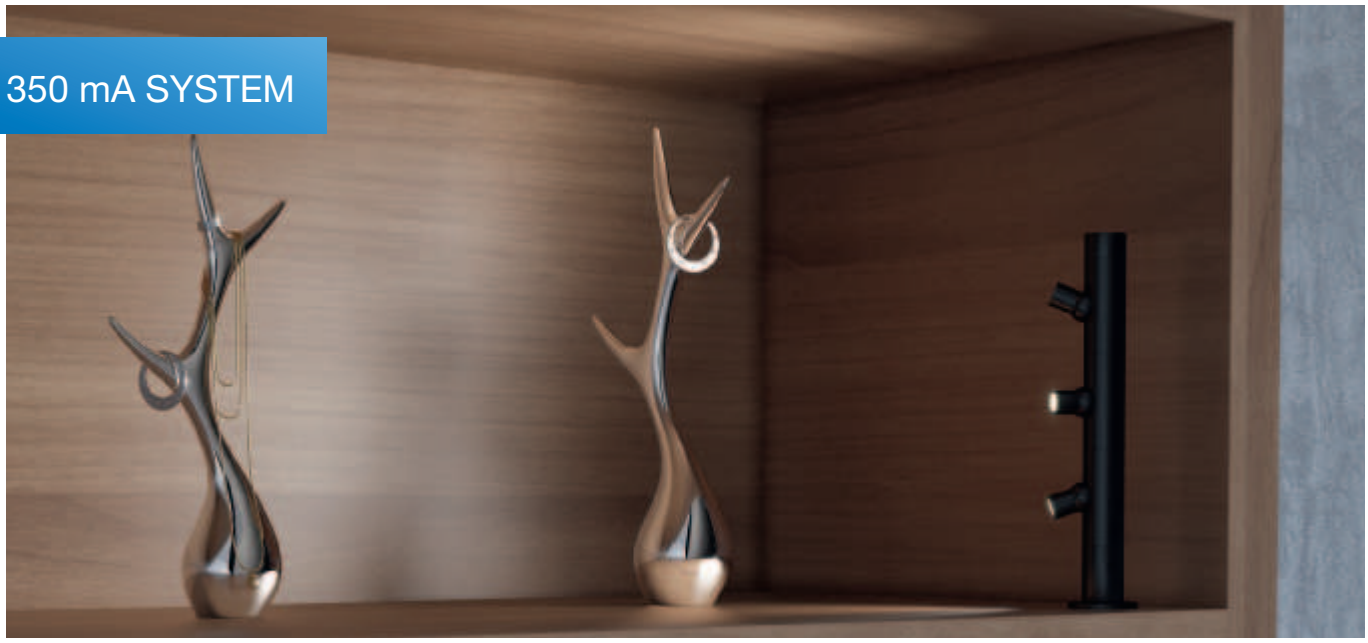
LOOX LED 4010

MODULAR SURFACE MOUNTED STACK LIGHT

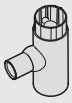
0 100%

350 mA SYSTEM



The LED 4010 can be individually adapted to requirements thanks to its modular configuration with rotary and swivelling LED modules and the special design. The basic set can be optionally extended.

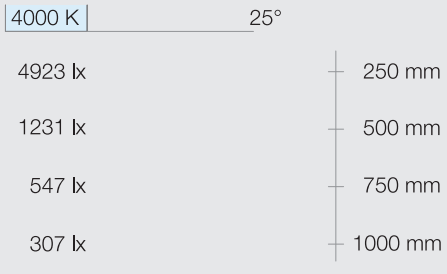
> Dimmable
> 1 Light can be extended to max. 8 LED modules and 4 spacers

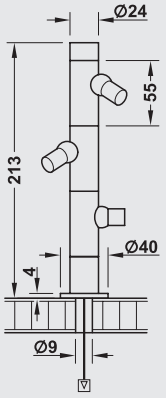


> LED module
Length: 72.5 mm; Wattage: 1 W
Cat. No. 833.80.011

> Spacer, length: 72.5 mm
Cat. No. 833.80.012

> Driver see page 106





Cat. No.	833.80.010
Colour temperature (K)	4000 (cool white)
Ø (mm)	24
Length (mm)	214
Wattage (W)	3
Number of LEDs	3 (1 per module)
Light output (lm)	213 (71 per module)
Efficacy (lm/W)	71
Colour rendering index (CRI)	85
Energy efficiency category	A+
Weighted energy consumption (kWh/1.000 h)	3.30
Finish	Aluminium, black
Supplied with	3 LED modules and 1 base module with 2 m lead

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HÄFELE

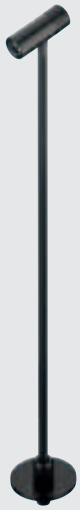
LOOX LED 4011

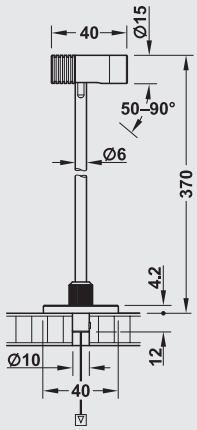
0 100%

RECESS MOUNTED POST LIGHT

350 mA SYSTEM

Because of its extravagant design and its high light intensity, the LED 4011 is perfect for presentation purposes.





- > Dimmable
- > Swivelling light head
- > Drill hole Ø: 10 mm
- > With height adjustment (bar can be lowered into the cabinet)

> Driver see page 106

Cat. No.	833.80.000	833.80.001
Colour temperature (K)	4000 (cool white)	6000 (daylight white)
Ø (mm)	6	6
Length (mm)	370	370
Wattage (W)	1	1
Number of LEDs	1	1
Light output (lm)	69	97
Efficacy (lm/W)	69	97
Colour rendering index (CRI)	80	80
Energy efficiency category	A++	A++
Weighted energy consumption (kWh/1.000 h)	1.10	1.10
Finish	Aluminium and steel, black	
Supplied with	1 light with 2 m lead and mounting accessories	

4000 K	6000 K	13°
11250 lx	13070 lx	250 mm
2810 lx	3270 lx	500 mm
1250 lx	1450 lx	750 mm
700 lx	820 lx	1000 mm

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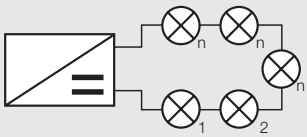
LOOX LED DRIVER

CONSTANT CURRENT 350 mA

350 mA SYSTEM



Series connection

> Cat. No. 833.80.900
$\otimes_1 + \otimes_2 + ... + \otimes_n$ 1 W up to max. 4 W

> Cat. No. 833.80.901
$\otimes_1 + \otimes_2 + ... + \otimes_n$ 5 W up to max. 10 W

> Cable bridge (replacement)
Cat. No. 833.80.720

The driver is the heart of the Loox system, and is suitable for connecting to all of the worlds most frequently used mains voltages and frequencies. All of the switches in the Loox product range can be connected to the drivers (see pages 112–115).

> At least 2 Watts have to be connected to the light output, when using a Loox switch.
> Lead length from driver to switch max. 6 m.
> All lights and switches must be connected to the driver first, before connecting the driver to the mains. Any unused slot must have a bridge. Bridge connectors are supplied.

Cat. No.	833.80.900	833.80.901
Power output (W)	1–4	5–10
Input voltage	100–240 V~; 50–60 Hz	100–240 V~; 50–60 Hz
Constant current	DC 350 mA	DC 350 mA
Stand-by power consumption	<0.5 W	<0.5 W
Degree of protection	IP20	IP20
Number of slots for lights	4	10
Universal switch input	Yes	Yes
Colour	Black	Black
Dimensions (L x W x H mm)	140 x 43 x 20	195 x 43 x 28
Supplied with	1 driver with mounting accessories	

Country-specific mains leads – 2 m lead length

Cat. No.	833.89.000	833.89.001	833.89.002	833.89.003	833.89.004	833.89.005	833.89.006	833.89.007	833.89.009	833.89.050
Plug design										
Designation	UK	AU	EU	US	JP	CN	KR	TW	EU	US
Supplied with	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece

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RoHS SELV IP20

HÄFELE

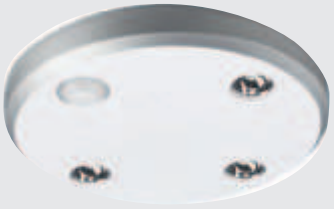
LOOX LED 9003

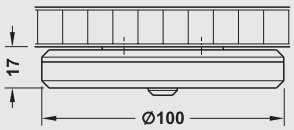
BATTERY-OPERATED LIGHT, ROUND, WITH SENSOR

Niches can be brightly illuminated with the rechargeable LED 9003 battery-operated light with integrated motion detector.

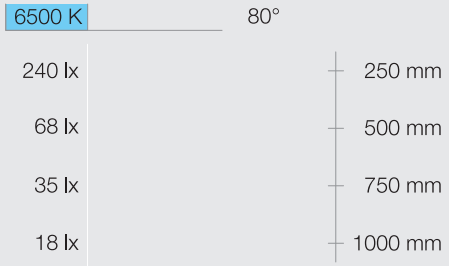
> The light can be recharged using the supplied mini-USB cable

> With integrated motion detector (120° detection range up to 2 m and 30 seconds delay time)





Cat. No.	833.87.012
Colour temperature (K)	6500 (daylight white)
Ø (mm)	100
Height (mm)	17
Wattage (W)	0.6
Number of LEDs	3
Light output (lm)	30
Efficacy (lm/W)	50
Colour rendering index (CRI)	80
Service life (h)	10
Charging time (h)	3–4
Finish	Plastic, silver coloured
Supplied with	1 light with magnetic mounting plate and 0.8 m mini-USB charging cable



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

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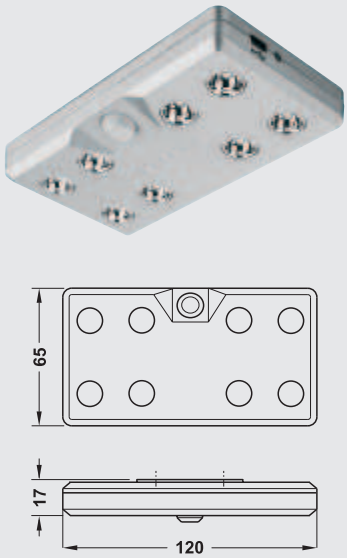
LOOX LED 9004

BATTERY-OPERATED LIGHT, SQUARE, WITH SENSOR

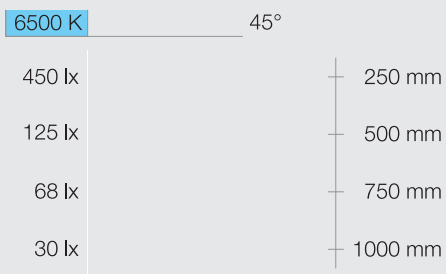
Storage spaces and dark corners are ideally illuminated with the LED 9004 battery-operated light. The integrated motion detector makes it possible to activate the light in any application.

> The light can be recharged using the supplied mini-USB cable

> With integrated motion detector (120° detection range up to 2 m and 30 seconds delay time)



Cat. No.	833.87.013
Colour temperature (K)	6500 (daylight white)
Length (mm)	120
Width (mm)	65
Height (mm)	17
Wattage (W)	0.8
Number of LEDs	8
Light output (lm)	55
Efficacy (lm/W)	69
Colour rendering index (CRI)	80
Service life (h)	10
Charging time (h)	3–4
Finish	Plastic, silver coloured
Supplied with	1 light with mounting plate for screw fixing and 0.8 m mini-USB cable



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE RoHS IP20

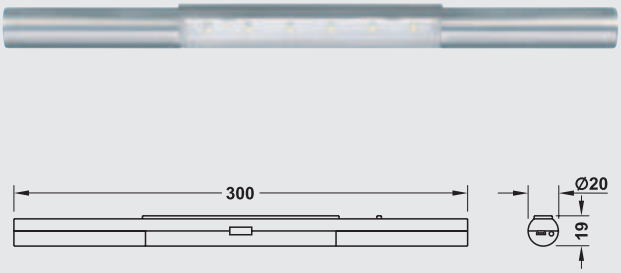
HÄFELE

LOOX LED 9005

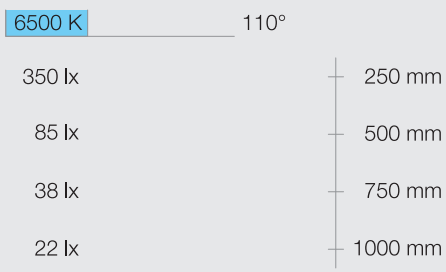
BATTERY-OPERATED LIGHT, BAR-SHAPED, WITH SENSOR

The LED 9005 battery-operated light is perfect for illuminating drawers, storage spaces and recesses.

> The light can be recharged using the supplied micro-USB cable
> The light is pushed onto the mounting plate
> With automatic shut-off
> Selectable switching function:
1. Door sensor switch (factory setting):
Door open, light on – door closed, light off.
Energy-saving mode after 30 seconds:
LED flashes 2 to 3 times and then turns off.
2. Sensor switch:
Active on/off switching



Cat. No.	833.87.020
Colour temperature (K)	6500 (daylight white)
Ø (mm)	20
Length (mm)	300
Wattage (W)	0.6
Number of LEDs	6
Light output (lm)	51
Efficacy (lm/W)	85
Colour rendering index (CRI)	82
Service life (h)	6
Charging time (h)	4
Finish	Plastic, silver colour lacquered
Supplied with	1 light with mounting plate for screw fixing and 0.8 m micro-USB cable



LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CE RoHS IP20

LOOX ALUMINIUM PROFILES

FOR LED FLEXIBLE STRIP LIGHTS

Profile cover finishes – different light effects

Milky

Frosted

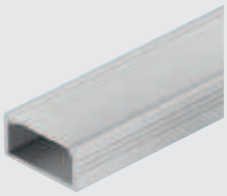
Milky cover:

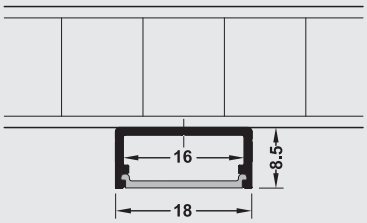
The material is dyed. Creates a homogeneous surface-directed light with uniform intensity. The light appears “soft”.

Frosted cover:

The surface is frosted. The light appears “velvet-white” and creates a sophisticated, high-quality impression.

Profile for surface mounting





Cat. No.	833.74.839	833.74.840
Finish	Aluminium, silver coloured anodized	
Cover	Milky	Frosted
Length (mm)	2500	2500
Width (mm)	18	18
Height (mm)	8.5	8.5
Application	For surface mounting	
Supplied with	1 profile	1 profile

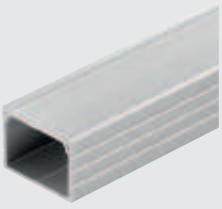
> Note the dimensions of the clip connector
> Not suitable for operation with LED 3028.
> LED 3013 and LED 3015 not rated for continuous duty (≥8 hours/day)

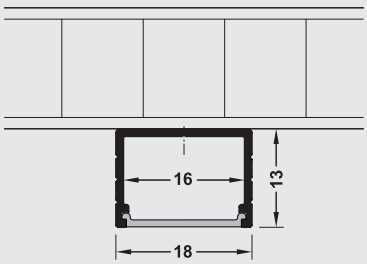
Diffuser	Visible LED points LED					
	2029	2037	2043	2045	3013	3015
Milky	✓	✓	✓	✓	✓	✓
Frosted	✓	✓	✓	✓	✓	✓

> End cap
plastic,
silver coloured, 2 pieces
Cat. No. 833.74.849

> Mounting bracket,
stainless steel,
silver coloured, 2 pieces
Cat. No. 833.74.832

> Mounting bracket 40°,
stainless steel,
silver coloured, 2 pieces
Cat. No. 833.74.833





Cat. No.	833.74.810	833.74.811
Finish	Aluminium, silver coloured anodized	
Cover	Milky	Frosted
Length (mm)	2500	2500
Width (mm)	18	18
Height (mm)	13	13
Application	For surface mounting	
Supplied with	1 profile	1 profile

Diffuser	Visible LED points LED						
	2029	2037	2043	2045	3013	3015	3028
Milky	×	×	✓	×	✓	×	×
Frosted	✓	✓	✓	✓	✓	✓	✓

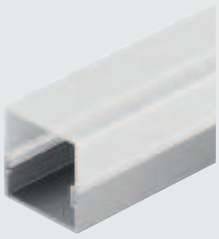
> End cap with cable outlet,
plastic,
silver coloured, 2 pieces
Cat. No. 833.74.821

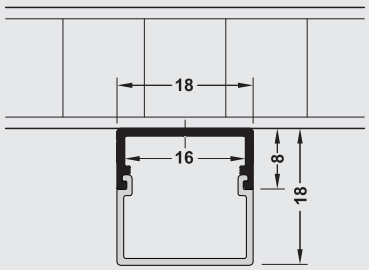
> Mounting bracket,
stainless steel,
silver coloured, 2 pieces
Cat. No. 833.74.832

> Mounting bracket 40°,
stainless steel,
silver coloured, 2 pieces
Cat. No. 833.74.833

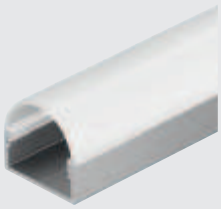
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

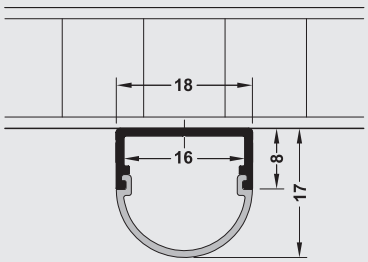
Profiles for surface mounting





Cat. No.	833.74.813	833.74.814
Finish	Aluminium, silver coloured anodized	
Cover	Milky, rectangular	Milky, round
Length (mm)	2500	2500
Width (mm)	18	18
Height (mm)	18	17
Application	For surface mounting	
Supplied with	1 profile	1 profile





Diffuser	Visible LED points					
	LED					
	2029	2037	2043	2045	3013	3015
Milky, rectangular	×	×	✓	×	✓	×
Milky, round	×	×	✓	×	✓	×

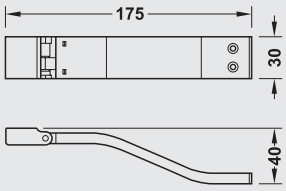
> **Note:** Not suitable for operation with LED 3028.

> End cap, rectangular, with cable outlet, plastic, silver coloured, 2 pieces
Cat. No. 833.74.823

> End cap, rounded, with cable outlet, plastic, silver coloured, 2 pieces
Cat. No. 833.74.824

> Mounting bracket, stainless steel, silver coloured, 2 pieces
Cat. No. 833.74.832

> Mounting bracket 40°, stainless steel, silver coloured, 2 pieces
Cat. No. 833.74.833



Cat. No.	833.74.834
Mounting arm for profiles 833.74.813 and 833.74.814	
Finish	Aluminium, silver coloured anodized
version	Can be swivelled 30° horizontally
Length (mm)	175
Width (mm)	30
Height (mm)	40
Application	For surface mounting
Supplied with	1 pair of mounting arms, 2 end caps for rounded profile and 2 end caps for rectangular profile

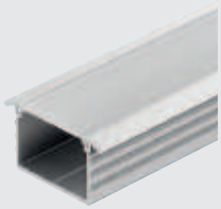
> The mounting arms make it possible to have customised, perfectly fitting surface mounted cabinet lights.
In combination with our rounded/rectangular profiles and an LED strip light, surface mounted solutions up to 1.5 m can be realised.

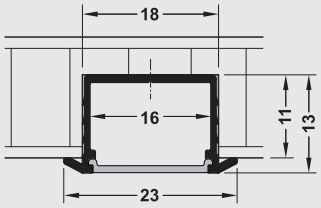
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX ALUMINIUM PROFILES

FOR LED FLEXIBLE STRIP LIGHTS

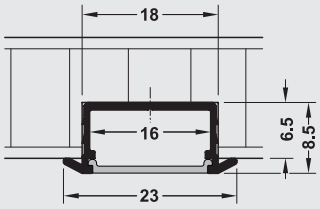
Profiles for recess mounting





Cat. No.	833.72.700*	833.72.810*	833.74.815	833.74.816
Finish	Aluminium, silver coloured anodized			
Cover	Milky	Frosted	Milky	Frosted
Length (mm)	2500	2500	2500	2500
Width (mm)	18	18	18	18
Height (mm)	8.5	8.5	13	13
Application	For recess mounting			
Supplied with	1 profile	1 profile	1 profile	1 profile

> ***Note:**
Not suitable for operation with LED 3028.



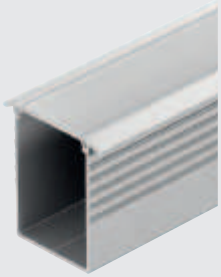
Diffuser	Visible LED points LED 2029	2037	2043	2045	3013	3015	3028
Milky 8.5 mm	✓	✓	✓	✓	✓	✓	–
Frosted 8.5 mm	✓	✓	✓	✓	✓	✓	–
Milky 13 mm	×	×	✓	×	✓	×	×
Frosted 13 mm	✓	✓	✓	✓	✓	✓	✓

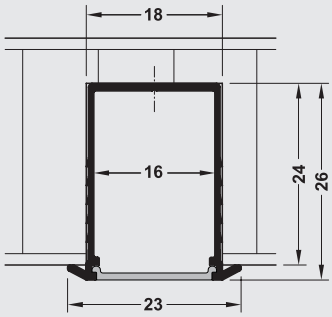
> End cap with cable outlet for 833.74.815 and 833.74.816, plastic, silver coloured; 2 pieces
Cat. No. 833.74.827

> End cap with cable outlet for 833.72.810, plastic, silver coloured; 2 pieces
Cat. No. 833.74.819

> Mounting bracket, stainless steel, silver coloured, 2 pieces
Cat. No. 833.74.832

> Mounting bracket 40°, stainless steel, silver coloured, 2 pieces
Cat. No. 833.74.833





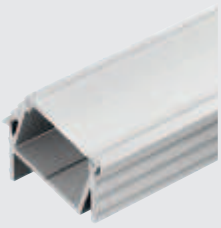
Cat. No.	833.74.819	833.74.820
Finish	Aluminium, silver coloured anodized	
Cover	Milky	Frosted
Length (mm)	2500	2500
Width (mm)	18	18
Height (mm)	26	26
Application	For recess mounting, 24 mm deep	
Supplied with	1 profile	1 profile

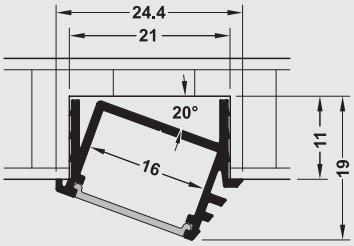
Diffuser	Visible LED points LED 2029	2037	2043	2045	3013	3015	3028
Milky	×	×	×	×	✓	×	×
Frosted	✓	✓	✓	✓	✓	✓	✓

> End cap with cable outlet, plastic, silver coloured; 2 pieces
Cat. No. 833.74.828

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles for recess mounting

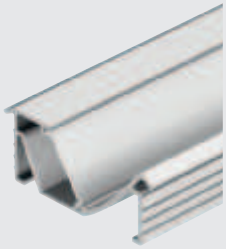


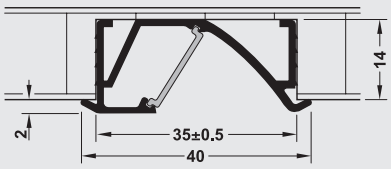


Cat. No.	833.74.817	833.74.818
Finish	Aluminium, silver coloured anodized	
Cover	Milky	Frosted
Length (mm)	2500	2500
Width (mm)	21	21
Height (mm)	19	19
Application	For recess mounting	
Supplied with	1 profile	1 profile

Diffuser	Visible LED points						
	LED						
	2029	2037	2043	2045	3013	3015	3028
Milky	×	×	✓	×	✓	×	×
Frosted	✓	✓	✓	✓	✓	✓	✓

> End cap with cable outlet, plastic, silver coloured; 2 pieces
Cat. No. 833.74.829





Cat. No.	833.74.845
Finish	Aluminium, silver coloured anodized
Cover	Frosted
Length (mm)	2500
Width (mm)	40
Height (mm)	16
Application	For recess mounting
Supplied with	1 profile

> For single row Loox LED strip lights 12 and 24 V
> For panel thickness from 16 mm
> Angled, flush
> Indirect light output

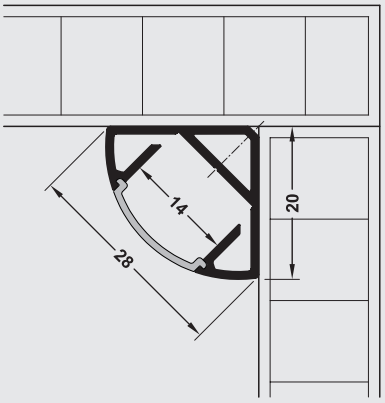
> End cap
plastic, silver coloured; 2 pieces
Cat. No. 833.74.848

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX ALUMINIUM PROFILES

FOR LED FLEXIBLE STRIP LIGHTS

Profile for corner mounting



Cat. No.	833.74.812
Finish	Aluminium, silver coloured anodized
Cover	Milky
Length (mm)	2500
Width (mm)	28
Height (mm)	20
Application	For corner mounting
Supplied with	1 profile

Diffuser	Visible LED points LED 2029	2037	2043	2045	3013	3015	3028
Milky	×	×	✓	×	✓	×	×

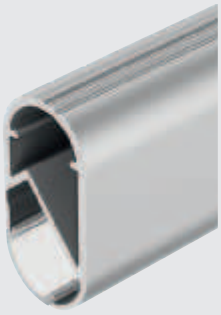
> Note the dimensions of the clip connector

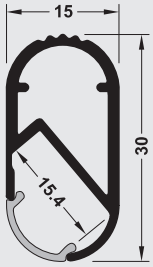
> End cap with cable outlet,
plastic, silver coloured; 2 pieces
Cat. No. 833.74.822

> Bracket,
plastic, silver coloured; 2 pieces
Cat. No. 833.74.825

> Mounting plate,
stainless steel, silver coloured; 2 pieces
Cat. No. 833.74.826

Wardrobe rail, light output 40°





Cat. No.	833.72.790
Finish	Aluminium, silver coloured anodized
Cover	Frosted
Length (mm)	2500
Width (mm)	15
Height (mm)	30
Application	For built-in installation
Supplied with	1 profile

Diffuser	Visible LED points LED 2029	2037	2043	2045	3013	3015
Frosted	✓	✓	✓	✓	✓	✓

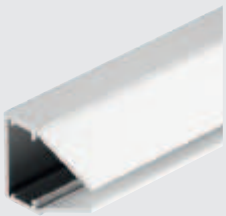
> Note the dimensions of the clip connector
> Not suitable for LED 3028 or RGB strip lights

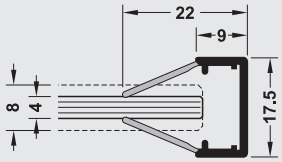
> Oval rail end support (for screw fixing),
zinc alloy, 1 piece
Cat. No. 803.33.758

> Rail centre support
(for screw fixing)
zinc alloy, chrome plated, 1 piece
Cat. No. 802.07.200

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

Glass edge profile

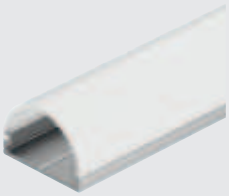


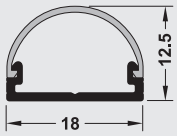


Cat. No.	833.74.733
Finish	Plastic
Cover	Milky
Length (mm)	2500
Width (mm)	17.5
Height (mm)	22
Application	For plug fitting
Supplied with	1 profile

> For manufacturing customised glass edge lighting for glass thicknesses of 4–8 mm
> Without load bearing function
> Only for LED strip lights with max. 7.5 W/m

Drawer profile





Cat. No.	833.74.835
Finish	Aluminium, silver coloured anodized
Cover	Round, milky
Length (mm)	2500
Width (mm)	18
Height (mm)	12.5
Application	For surface mounting
Supplied with	1 profile

> Not suitable for LED 3028
> Note the dimensions of the clip connector

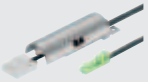
Diffuser	Visible LED points					
	LED					
	2029	2037	2043	2045	3013	3015
Milky	×	×	✓	×	✓	×

> End cap set,
plastic ABS, silver coloured
Supplied with: End caps, fixing screws
Cat. No. 833.74.877

> Mounting bracket,
stainless steel, silver coloured
Cat. No. 833.74.837

> Door sensor 12 V
for Loox drawer profile
Cat. No. 833.89.110

> Motion detector 12 V,
for Loox drawer profile
Delay time 30 sec.
Detection range 0–3000 mm
Cat. No. 833.89.088



> Door sensor 24 V
for Loox drawer profile
Cat. No. 833.89.111

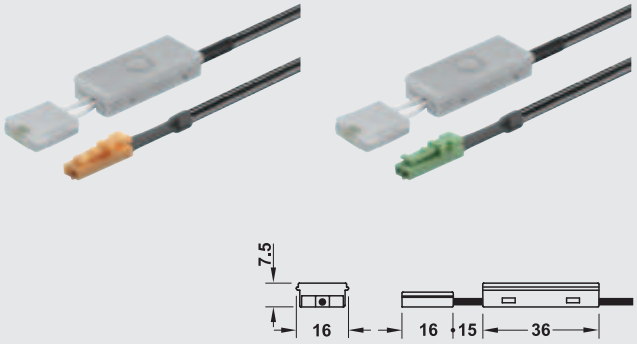
> Motion detector 24 V,
for Loox drawer profile
Delay time 30 sec.
Detection range 0–3000 mm
Cat. No. 833.89.089

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX ALUMINIUM PROFILES

COOLING BAR AND SWITCHES

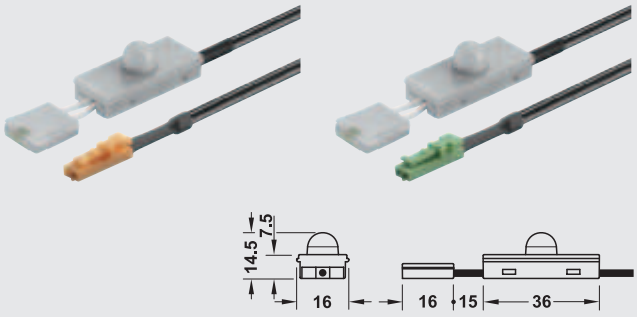
Aluminium profile dimmer 12 V/24 V



Cat. No.	833.89.085	833.89.103
For system	12 V	24 V
Finish	Plastic, silver coloured anodized	
Length (mm)	36	36
Width (mm)	16	16
Height (mm)	7.5	7.5
Application	For press fitting	
Supplied with	1 dimmer with 2 m lead	

> For Loox 12 and 24 V LED strip lights with 10 mm width in Loox aluminium profiles with 16 mm internal dimension
> Soft on/off with dimming function

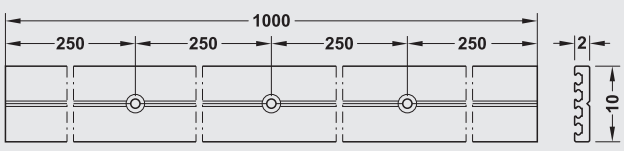
Aluminium profile motion detector 12 V/24 V



Cat. No.	833.89.084	833.89.101
For system	12 V	24 V
Finish	Plastic, silver coloured anodized	
Length (mm)	36	36
Width (mm)	16	16
Height (mm)	14.5	14.5
Delay time (seconds)	30	
Detection range (mm)	0-3000	
Application	For press fitting	
Supplied with	1 motion detector with 2 m lead	

> For Loox 12 and 24 V LED strip lights with 10 mm width in Loox aluminium profiles with 16 mm internal dimension
> Automatic on/off
> Detection range 0-3000 mm

Cooling bar for leading heat away from 12 V and 24 V LED strip lights



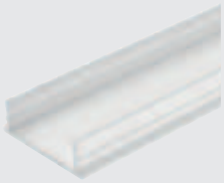
Cat. No.	833.77.700
Finish	Aluminium
Length (mm)	1000
Width (mm)	10
Height (mm)	2
Application	For surface mounting
Supplied with	1 profile

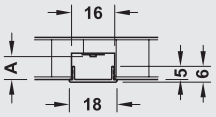
> Only suitable for 10 mm wide LED strip lights
> For screw fixing, drill holes at 250 mm, 500 mm and 750 mm

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

DIFFUSER AND CABLE COVERS

Diffuser cover



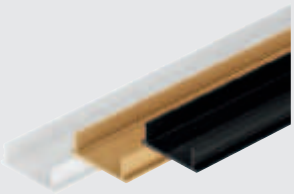


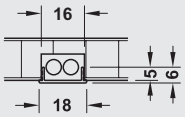
Cat. No.	833.74.794
Finish	Plastic
version	Milky
Length (mm)	2500
Application	For recess mounting
Supplied with	1 profile

> Only suitable for 12 V LED strip lights
> For recess mounting

Diffuser	Size A min., so that LED points are not visible LED 2029	2037	2043	2045
Milky	10 mm	10 mm	10 mm	13 mm

Cable cover





Cat. No.	833.74.795	833.74.796	833.74.797
Finish	Plastic		
Colour	White (RAL 9010)	Beige (RAL 1001)	Black (RAL 9005)
Length (mm)	2500		
Application	For recess mounting		
Supplied with	1 profile		

> For concealing visible cables in furniture and cabinets
> For recess mounting

Replacement diffuser

Milky

Frosted

Cat. No.	833.74.780	833.74.781
Finish	Plastic	
Cover	Frosted	Milky
Length (mm)	2500	2500
Supplied with	1 diffuser	

> Simple replacement of existing diffusers in order to switch from frosted to milky
> Cannot be used for the following aluminium profiles: 833.74.812, 833.74.813, 833.74.814

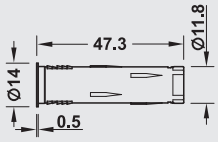
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX ACCESSORIES

MODULAR SWITCHES

Sensor switch, modular – touch-free on/off switching

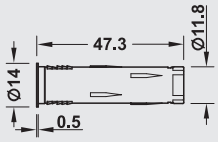
TOUCH-FREE



Cat. No.	833.89.095
Drill hole Ø (mm)	12
Length (mm)	47.3
Sensor range (mm)	0–80
Finish	Plastic, silver coloured
Supplied with	1 switch

> Please order lead for modular switch to Loox driver separately.

Door sensor switch, modular

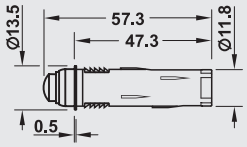


Cat. No.	833.89.094
Drill hole Ø (mm)	12
Length (mm)	47.3
Power consumption (W)	1
Sensor range (mm)	3–80
Finish	Plastic, silver coloured
Supplied with	1 switch

> Use motion detector for sliding doors.

> Please order lead for modular switch to Loox driver separately.

Motion detector, modular –automatic on/off switching

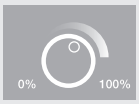


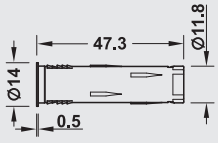
Cat. No.	833.89.093
Drill hole Ø (mm)	12
Length (mm)	57.3
Power consumption (W)	1
Sensor range (mm)	0–3000
Delay time (seconds)	approx. 30
Finish	Plastic, silver coloured
Supplied with	1 motion detector

> Please order lead for modular switch to Loox driver separately.

Dimmer, modular

TOUCH-FREE





Cat. No.	833.89.096
Drill hole Ø (mm)	12
Length (mm)	47.3
Power consumption (W)	1
Sensor range (mm)	0–80
Finish	Plastic, silver coloured
Supplied with	1 dimmer

> Cannot be used in combination with multi switch box

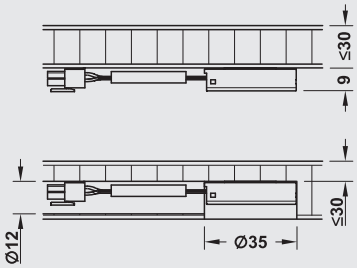
> Dimming value is stored without the need for power supply (memory function)

> Please order lead for modular switch to Loox driver separately.

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

Capacitive switch/dimmer, modular

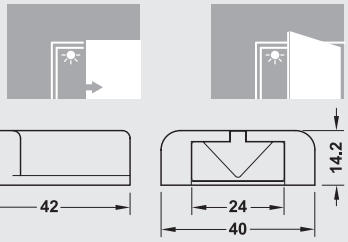
This completely invisible operating solution opens up completely new possibilities in continuously adjustable light control.



Cat. No.	833.89.087
Ø (mm)	35
Height (mm)	9
Finish	Plastic, silver coloured
Supplied with	1 switch

- > Works by touch
- > Concealed installation in wood, glass or stone (not in metalliferous materials) at a maximum depth of 30 mm
- > For screw fixing or recess mounting (drill hole Ø 35 mm)
- > Please order lead for modular switch to Loox driver separately.

Universal door contact switch, modular

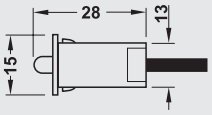


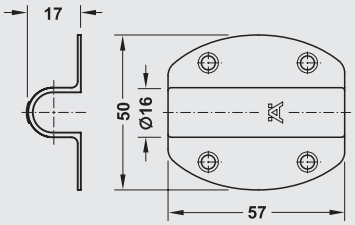
The universal door contact switch is suitable for hinged or single-leaf sliding doors.

Cat. No.	833.89.065
Length (mm)	51.8
Width (mm)	40
Height (mm)	14.2
Finish	Plastic, black
Supplied with	1 switch

- > Please order lead for modular switch to Loox driver separately.

Door contact switch





Cat. No.	Door contact switch 833.89.045	Housing for switch 833.89.048
Drill hole Ø (mm)	13	–
Ø (mm)	–	16
Length (mm)	28	57
Width (mm)	–	50
Height (mm)	–	20
Finish	Plastic, black	
Supplied with	1 switch with 2 m lead	1 housing for switch Ø 13 mm

- > Drill hole 13 mm

Lead for modular switch

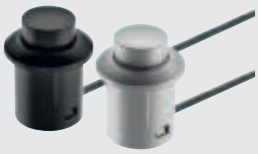
Cat. No.	833.89.054	833.89.055	833.89.056
Length (mm)	500	1000	2000
Supplied with	1 lead		

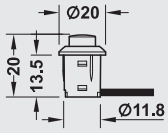
LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX ACCESSORIES

SWITCHES

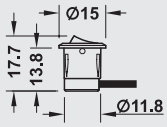
Push switch





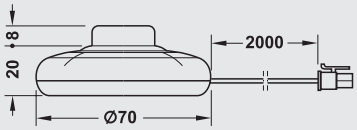
Cat. No.	833.89.108	833.89.107
Drill hole Ø (mm)	12	12
Length (mm)	20	20
Finish	Plastic, black	Plastic, grey
Supplied with	1 switch with 2 m lead	

Rocker switch



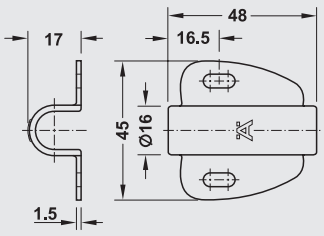
Cat. No.	833.89.106
Ø (mm)	15
Drill hole Ø (mm)	12
Height (mm)	17.7
Finish	Plastic, black
Supplied with	1 switch with 2 m lead

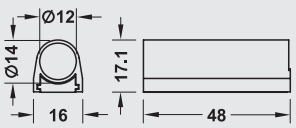
Foot switch



Cat. No.	833.89.046
Ø (mm)	70
Height (mm)	28
Finish	Plastic, black
Supplied with	1 switch with 2 m lead

Housing for switch, for surface mounting





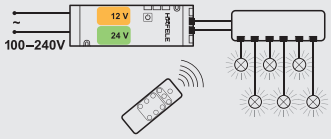
Cat. No.	833.89.090	833.89.092
Ø (mm)	16	14
Length (mm)	48	48
Width (mm)	45	16
Height (mm)	17	17.1
Finish	Plastic, silver coloured	
Supplied with	1 housing	1 housing
Application	For switch Ø 12 mm	

> Suitable for 32 mm series drilled holes

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

RADIO RECEIVERS, RADIO REMOTE CONTROLS AND RADIO SWITCHES

Premium 6-channel radio receiver



Cat. No.	833.73.741	833.77.785
Application	12 V system	24 V system
Wattage (W)	60	120
Max. wattage per slot (W)	30	60
Number of slots	6 slots for consumers, power supply from driver via 2 leads	
Supplied with	1 Premium radio receiver	

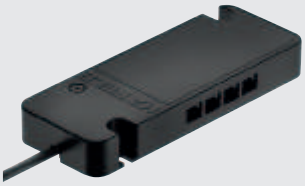
White LED lights can be remote controlled with this system. The Premium version consists of a radio receiver and a 6-channel remote control. Three lighting scenarios can be stored. Radio switches can be added that are compatible with both the 12 V and the 24 V system.

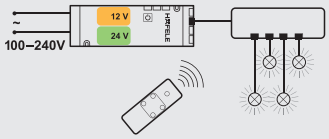
> For controlling white LED lights
> Not suitable for multi white or RGB
> max. 10 radio receivers can be combined

> For controlling Loox 6-channel radio receivers for white LEDs
> Soft on/off with dimming function for 6 channels
> 3 lighting scenarios can be stored
> Several radio receivers can be controlled within a radius of 15 m

Cat. No.	833.89.121
Application	12 V and 24 system
Supplied with	1 Premium radio remote control

Basic 4-channel radio receiver





Cat. No.	833.73.740	833.77.784
Application	12 V system	24 V system
Wattage (W)	30	60
Max. wattage per slot (W)	30	60
Number of slots	4 slots for consumers, power supply from driver via 1 lead	
Supplied with	1 Basic radio receiver	

White LED lights can be remote controlled with this system. The Basic version consists of a radio receiver and a 4-channel remote control. Radio switches can be added that are compatible with both the 12 V and the 24 V system.

> For controlling white LED lights
> Not suitable for mult white or RGB
> max. 10 radio receivers can be combined

> For controlling Loox 4-channel radio receivers for white LEDs
> Soft on/off with dimming function for 4 channels
> Several radio receivers can be controlled within a radius of 15 m

Cat. No.	833.89.120
Application	12 V and 24 system
Supplied with	1 Basic radio remote control

Radio switch 12 V/24 V

> For controlling all channels or one channel of Loox radio receiver for white LEDs
> Soft on/off
> Several radio receivers can be controlled within a radius of 15 m

> Housing for surface mounting, round for screw fixing Cat. No. 833.89.123

Cat. No.	833.89.122
Drill hole Ø (mm)	40
Height (mm)	14.4
Application	For recess mounting
Supplied with	1 radio switch

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX

THE SYSTEM COMPONENTS

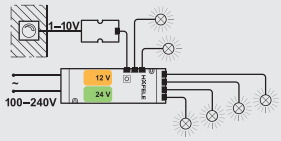
Based on the plug and play driver, you can customise the system in accordance with your requirements using add-on modules. The flexible and modular system components make it possible to have a wide range of applications and solutions, simplify installation or provide meaningful combinations of different lights and switches.

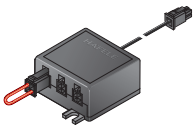
THE MOST IMPORTANT COMPONENTS OF THE LOOX SYSTEM

Dimmer interface 1 – 10 V

With the dimmer interface you can conveniently also dim Loox lights in furniture together using a wall switch.

12 V 24 V

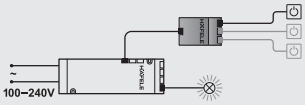


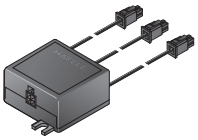


Multi switch box

1 LED driver operated by up to 3 switches. Allows the LED driver to be switched on and off from different positions.

12 V 24 V 350 mA

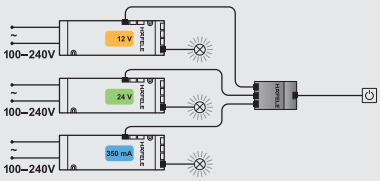


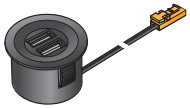


Multi driver box

Up to 3 LED drivers can be controlled with 1 switch. Several drivers and therefore several lights in the room can be switched on and off with one switch. These can also be 3 of the same driver if you require additional power in a 12 V system, for example.

12 V 24 V 350 mA

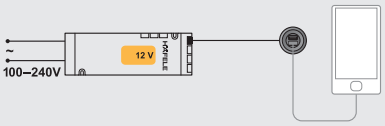




USB converter

The USB converter is intended for direct installation in the furniture. It can charge up to two tablets or smartphones simultaneously, and therefore provides additional functionality in the living area and stores.

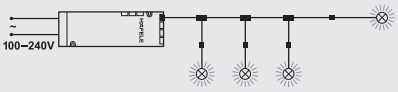
12 V



4-way extension lead (Daisy Chain cable)

4 LED lights can be connected with a single lead from an LED output using the 4-way extension.

12 V 24 V



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LOOX

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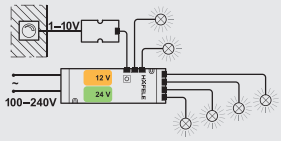
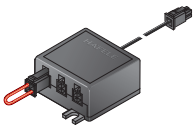
12 V 24 V

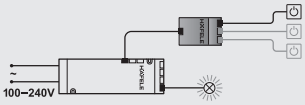


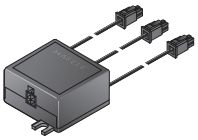


Multi switch box

1 LED driver operated by up to 3 switches. Allows the LED driver to be switched on and off from different positions.

12 V 24 V 350 mA

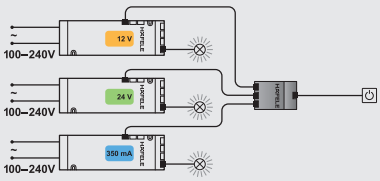


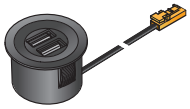


Multi driver box

Up to 3 LED drivers can be controlled with 1 switch. Several drivers and therefore several lights in the room can be switched on and off with one switch. These can also be 3 of the same driver if you require additional power in a 12 V system, for example.

12 V 24 V 350 mA

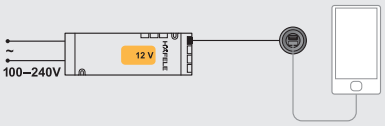




USB converter

The USB converter is intended for direct installation in the furniture. It can charge up to two tablets or smartphones simultaneously, and therefore provides additional functionality in the living area and stores.

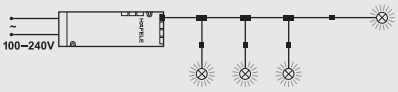
12 V



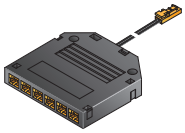
4-way extension lead (Daisy Chain cable)

4 LED lights can be connected with a single lead from an LED output using the 4-way extension.

12 V 24 V



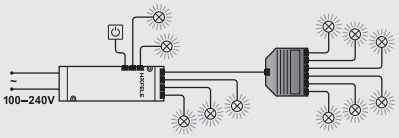
LOOX.2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.



6-way distributor

Connect the 6-way distributor to an LED light output and you will be able to operate 6 additional lights using the driver.

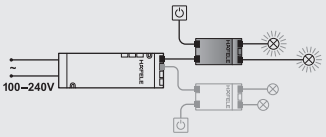
12 V 24 V

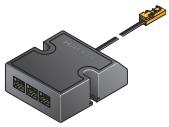


3-way distributor with switching function

The relevant lights can be operated separately and individually using the 3-way distributor with switching function connected to the output of the light.

12 V 24 V

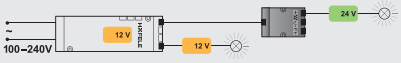


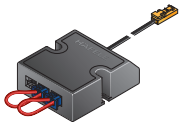


Converter 24 V to 12 V

Combine 24 V lights with 12 V lights and operate them using a single 12 V driver.

24 V → 12 V

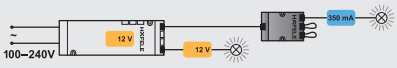


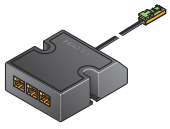


Converter 350 mA to 12 V

Combine 350 mA lights with 12 V lights and operate them using a single 12 V driver.

350 mA → 12 V





Converter 12 V to 24 V

Combine 12 V lights with 24 V lights and operate them using a single 24 V driver.

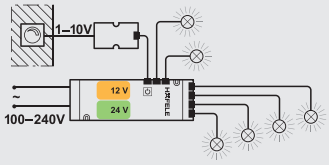
12 V → 24 V

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX ACCESSORIES

SWITCH ACCESSORIES

Dimmer interface 1–10 V, modular – for 12 V and 24 V systems



With the dimmer interface you can conveniently also dim Loox lights in furniture together using a wall switch. The modular design makes installation easier.

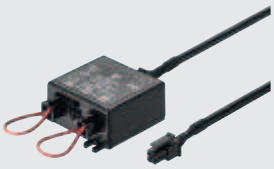
> Please order lead for modular switch to Loox driver separately
> Cannot be combined with multi switch box

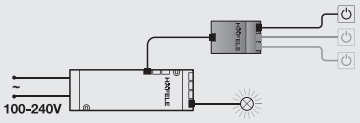
Cat. No.	833.89.086
Length (mm)	60.4
Width (mm)	34.2
Height (mm)	13.5
Supplied with	1 dimmer interface

Direct connection to a normal household dimmer with a 1–10 V control output and connection via a lead for modular switches to the switch input of a Loox driver 12 V or 24 V.

Lead for modular switches
> 500 mm, Cat. No. 833.89.054
> 1000 mm, Cat. No. 833.89.055
> 2000 mm, Cat. No. 833.89.056

Multi switch box and leads





Cat. No.	833.89.060	833.89.064
Multi switch box		
Length (mm)	50	50
Width (mm)	40	40
Height (mm)	19	19
Finish	Plastic, black	Plastic, black
Standby power consumption (W)	1.5	
Function	without change-over switch	with change-over switch
Supplied with	1 Multi driver box with 1 m lead	

1 LED driver operated by up to 3 switches.
Allows the LED driver to be switched on and off from different points.

> A dimmer cannot be used in combination with the multi switch box.
> max. 75 W per multi switch box.

Cat. No.	833.89.068	833.89.069
Lead for switch – as connecting cable to switch input of the driver		
Length (mm)	500	2000
Supplied with	1 lead	1 lead

> Alternative to the supplied 1 m lead for multi switch box.

Extension lead for switches

Cat. No.	833.89.067
Length (mm)	2000
Supplied with	1 lead

> Can also be used for the multi switch box and the multi driver box.
> Lead length from driver to switch max. 6 m
> The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm.

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

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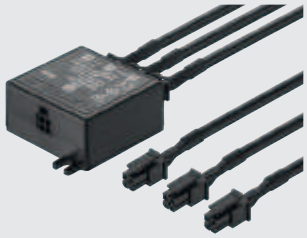
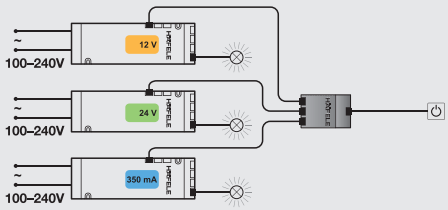
LOOX ACCESSORIES

MULTI DRIVER BOX AND USB CHARGING STATION

Multi driver box and leads





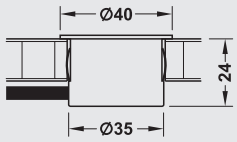
Cat. No.	833.89.061
Multi driver box	
Length (mm)	50
Width (mm)	40
Height (mm)	19
Standby power consumption (W)	1.5 W
Finish	Plastic, black
Supplied with	1 multi driver box with 3 x 1 m lead

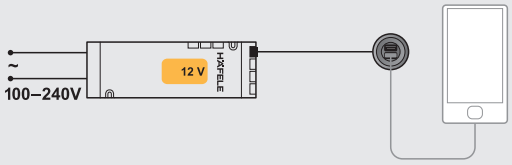
> Up to 3 LED drivers can be controlled with 1 switch. Several drivers and therefore several lights in the room can be switched on and off with one switch.
These can also be 3 of the same driver if you require additional power in a 12 V system, for example.
> max. 3 x 75 W per multi driver box

Cat. No.	833.89.068	833.89.069
Lead for switch – as connecting cable to switch input of the driver		
Length (mm)	500	2000
Supplied with	1 lead	1 lead

> Alternative to the supplied three 1 m leads for multi driver box.
> The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm.

USB converter, modular – for 12 V system





The USB converter is intended for direct installation in the furniture. It can charge up to two tablets or smartphones simultaneously, and therefore provides additional functionality in the living area and stores. The cover ring can be removed.

Cat. No.	833.74.876
Finish	Plastic, matt, black
Installation	For mounting in drilled hole, with clip fastener
Output voltage	5 V
Output current	2 A
Power consumption	max. 15 W
Supplied with	1 USB charging station

> Drill hole Ø: 35 mm
> Installation: For mounting in drilled hole, with clip fastener
> Power consumption max. 15 W

Lead
> 500 mm Cat. No. 833.72.128
> 1000 mm Cat. No. 833.72.129
> 2000 mm Cat. No. 833.72.123

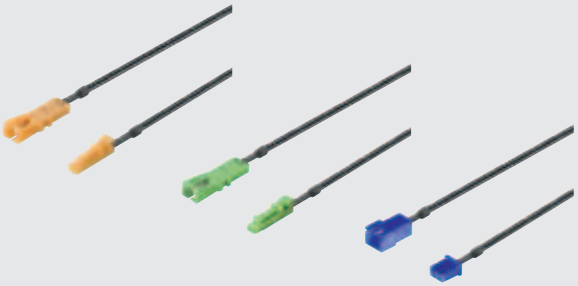
> Please order lead separately.

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX ACCESSORIES

LEADS AND DISTRIBUTORS

Extension leads 12 V / 24 V / 350 mA

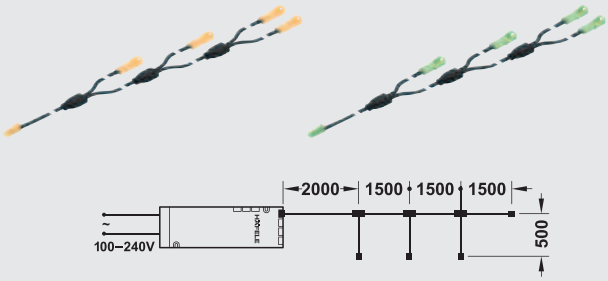


Length (mm)	500	1000	2000
12 V system	833.74.724	833.74.725	833.74.726
24 V system	833.77.706	833.77.707	833.77.708
350 mA system	833.80.704	833.80.705	833.80.706
Supplied with	1 lead		

For extending the connection leads of the LED lights

> Lead length from driver to light max. 6 m

4-way extension lead – convenient extension for additional lights

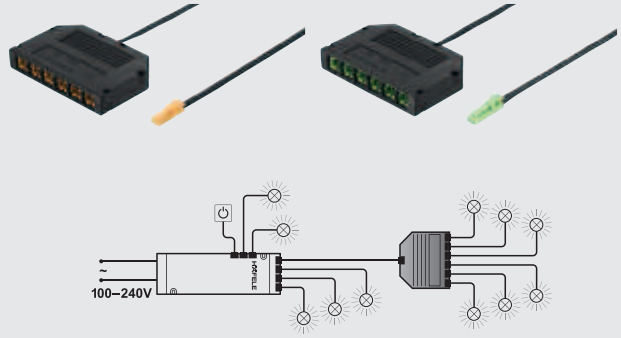


Cat. No.	833.74.765	833.77.800
Length (mm)	6500	6500
Application	12 V system	24 V system
Finish	Plastic, black	
Supplied with	1 lead	

Makes the power supply for multiple lights easier.

> max. 4 lights per extension can be connected, max. 2 extensions can be coupled

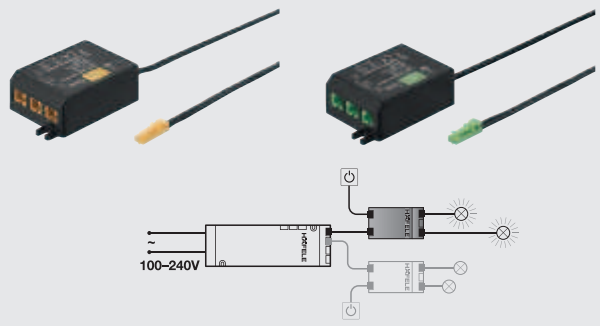
6-way distributor – for connecting additional lights to one driver



Cat. No.	833.74.743	833.77.722
Application	12 V system	24 V system
Finish	Plastic, black	
Dim. (L x W x H) mm	58.5 x 38.2 x 10.2	58.5 x 38.2 x 10.2
Supplied with	1 distributor with 2 m mains lead	

With the 6-way distributor, up to 6 additional lights can be operated from one driver slot.

3-way distributor with switching function 12 V / 24 V



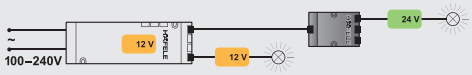
Cat. No.	833.74.742	833.77.720
Application	12 V system	24 V system
Power consumption	0.1 W	0.1 W
Dim. (L x W x H) mm	57 x 34 x 18	57 x 34 x 18
Wattage	max. 30 W	max. 60 W
Supplied with	1 distributor with 2 m mains lead	

Up to 3 lights can be operated separately and individually using the 3-way distributor with switching function connected to the output of the light.

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

CONVERTERS

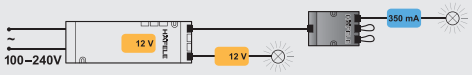
Converter 24 V to 12 V – for connecting 24 V lights to the 12 V system



Cat. No.	833.77.934
Application	Connecting 24 V lights to the 12 V system
Power consumption	15 W
Standby power consumption	0.3 W
Primary side	DC 12 V
Secondary side	DC 24 V
Number of output ports	3 connections for 24 V lights
Dimensions (L x W x H)	60.5 x 34.2 x 14.6 mm
Supplied with	1 converter with 1 m lead

> Combine 24 V lights with 12 V lights and operate them using a single 12 V driver. max. 10 W per converter

Converter 350 mA to 12 V – for connecting 350 mA lights to the 12 V

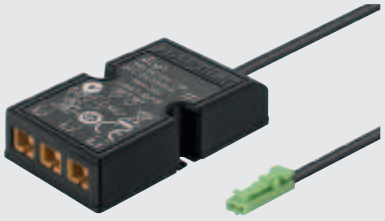


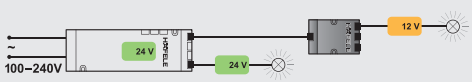
Cat. No.	833.80.912
Application	Connecting 350 mA lights to the 12 V system
Power consumption	3.5 W
Primary side	DC 12 V
Secondary side	DC 350 mA (min. 1 W, max. 9 W)
Number of output ports	3 connections for 350 mA lights
Dimensions (L x W x H)	61 x 34 x 15 mm
Supplied with	1 converter with 1 m lead

> Combine 350 mA lights with 12 V lights and operate them using a single 12 V driver. max 9 W per converter

> Cable bridge (alternative); 1 piece Cat. No. 833.80.720

Converter 12 V to 24 V – for connecting 12 V lights to the 12 V system





Cat. No.	833.74.947
Application	Connecting 12 V lights to the 24 V system
Power consumption	15 W
Standby power consumption	0.3 W
Primary side	DC 24 V
Secondary side	DC 12 V
Number of output ports	3 connections for 12 V lights
Dimensions (L x W x H)	60.5 x 34.2 x 14.6 mm
Supplied with	1 converter with 1 m lead

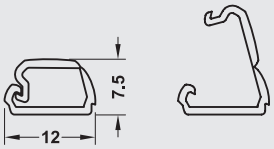
> Combine 12 V lights with 24 V lights and operate them using a single 24 V driver. max. 10 W per converter

LOOX 2015, HDE-en, 05/15; Dimensional data not binding. We reserve the right to alter specifications without notice.

LOOX ACCESSORIES

CABLE CHANNEL AND MAINS LEADS

Cable channel



Cat. No.	833.89.013	833.89.023	833.89.033
Finish	White, RAL 9010	Brown, RAL 8007	Black, RAL 9005
Length (mm)	2500	2500	2500
Width (mm)	12	12	12
Height (mm)	7.5	7.5	7.5
Application	Concealing visible cables in furniture and cabinets		
Supplied with	1 cable channel with adhesive tape		

> For diffuser covers and cable covers see page 117

Country-specific mains leads

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

833.89.007 TW

833.89.009 EU

833.89.050 US

Cat. No.	833.89.000	833.89.001	833.89.002	833.89.003	833.89.004	833.89.005	833.89.006	833.89.007	833.89.009	833.89.050
Plug design										
Designation	UK	AU	EU	US	JP	CN	KR	TW	EU	US
Voltage (V)	250	250	250	120	100	250	250	110	250	120
Length (mm)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Finish	Plastic, black									
Supplied with	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece

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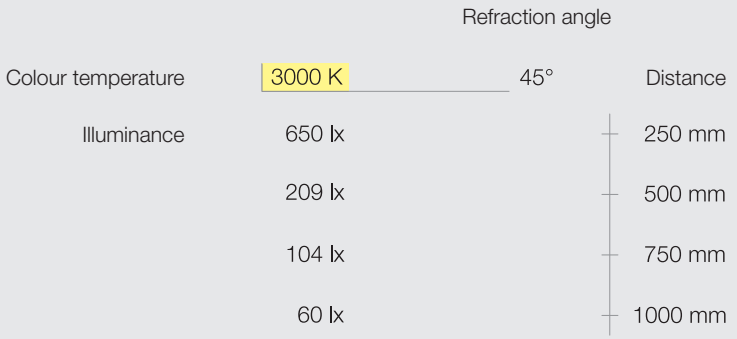
INFORMATION

LIGHTING EFFECTS AND LIGHTING TECHNOLOGY

Cone of light

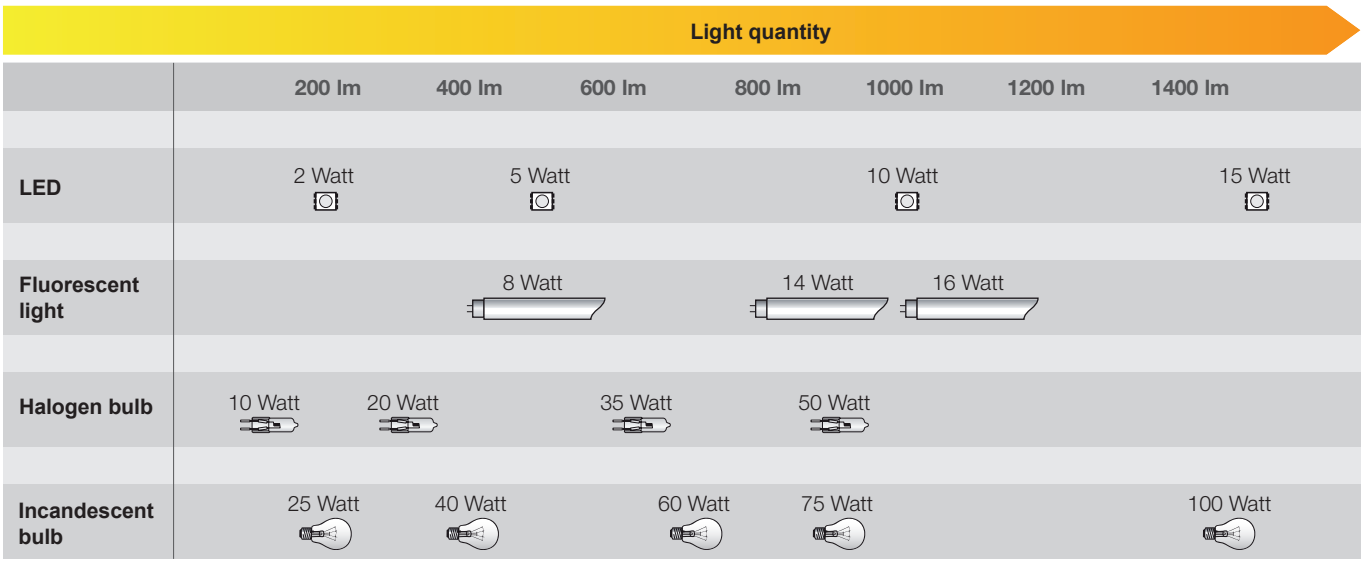


Light source comparison

	LED	Halogen bulb	Fluorescent light
Colour temperature	2700–6500 K	2800-3100 K	2700–6500 K
Power consumption	0.5–6 Watt	5-50 Watt	7-58 Watt
Luminous efficacy	up to 140 lm/W	12–25 lm/W	45-100 lm/W
Service life	up to 50,000 hrs. (L70, i.e. no complete failure)	2000–5000 hrs.	8000-24000 hrs.
Heat generation	approx. 50 °C	approx. 90 °C	approx. 70 °C
Colour rendering index (CRI)	80–95	100	50-90

L70 means that the LED is only emitting 70 % of the original light.

Luminous efficacy comparison



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SYMBOLS AND TERMS

TEST SYMBOLS AND DEFINITION OF TECHNICAL TERMS

TÜV seal of quality

Confirmation from manufacturer that the product complies with the product-specific applicable European directives.

Underwriters Laboratories correspondence with the national standards in the USA and Canada.

Product Safety Electrical Appliance and Material Safety Law (for Japan)

Regulatory Compliance Mark (for Australia)

China Compulsory Certification

Korea Certification Mark

R36733

Bureau of Standards, Metrology & Inspection BSMI (for Taiwan)

Thai Industrial Standards Institute TISI

RoHS Restriction of Hazardous Substances (EU directive 2011/65/EU)

Protection class II

Protection class III

SELV Safety Extra Low Voltage

IP20 Only for use in dry locations

IP44 Penetration by solid foreign bodies ≥1 mm Ø is prevented. Water spray protection (water from all directions)

IP65 Dust-tight, protection from water spray (jet) from any angle.

IP20 / IP44 IP44 after installation

IP20 / IP65 IP65 after installation

Furniture installation symbol

Lights to be used indoors only. Not to be used outdoors!

Do not use components that impede thermal radiation

K Kelvin

W Watt

T_A Ambient temperature

f Frequency

Switches

Driver

0 100% Dimmable

Motion detector

RGB RGB light

Multi white light

Technical terms	
Luminous intensity	The luminous intensity indicates the light output, i.e. the quantity of light a source emits. It is indicated in Lumen (lm).
Luminous efficacy	The luminous efficacy is the ratio of the luminous intensity and the wattage absorbed (lm/W) and is used to measure the operating efficiency of the light source.
Illuminance	The illuminance is the luminous intensity in relation to a surface and it is indicated in Lux (lx = lm/m²). It is used to measure the brightness with which a surface is illuminated.
Refraction angle	The refraction angle (beam angle) describes the angle between two imagined straight lines in a plane through the optical beam axis, whereby these straight lines go through the centre of the front of the lamp and through the points at which the illuminance is 50% of the illuminance on the optical beam axis.
Colour temperature	The colour temperature is a specification of the colour appearance of a white light source and is measured in Kelvin (K). The lower the colour temperature, the warmer the light; the higher the colour temperature, the cooler the light. White light sources with a colour temperature below 3400 K are considered “warm white”, white light sources with a colour temperature between 3400 and 5700 K are considered “cool white”. White light sources above 5700 K are referred to as “daylight white”.
Colour binning	LEDs are sorted according to colour. LED colour deviations are dependent on the grade of binning. The LEDs used in Loox lights have a deviation of ±200 K.
Colour rendering index (CRI)	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. The higher the value, the better the colour rendering. A value of 100 corresponds to the colour rendering of daylight.
Energy efficiency category	The energy efficiency category provides information about the relevant energy consumption. Lamps and lights are categorised in classes E to A++. LED lights achieve the highest classes A to A++.
Weighted energy consumption	The weighted energy consumption shows the energy consumption in kilowatt hours in relation to 1,000 hours of use.

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LED LIGHTING TECHNOLOGY

LEDs (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.

THE ADVANTAGES:

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

> Insensitive
LEDs 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 also be designed as colour changing lights. This allows the colour temperature to be coordinated with furniture contents such as exhibits in the best possible way.

THE LOOX LIGHTING 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 slots on the driver can be freely allocated. 12 V lights are among the most widespread at present.

24 V System

Powerful 24 V system

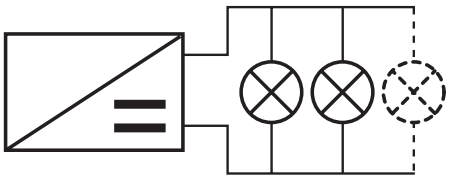
Technically speaking, the 24 V system is identical to the 12 V system, but has a considerably higher power level. 24 V lights can therefore be used when extremely bright lights are required.

350 mA System

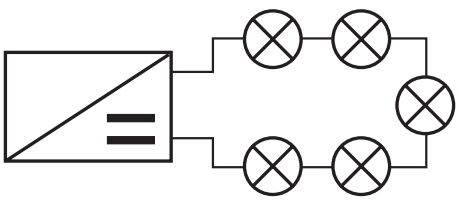
Spotlights in the 350 mA system

The LED lights in the 350 mA system are current-controlled and connected in series. This means that each slot has to be either occupied or must have a bridge. 350 mA lights provide extremely great light output and are particularly suitable for spotlighting.

SWITCHING



Parallel connection for 12 V and 24 systems



Series connection for 350 mA system

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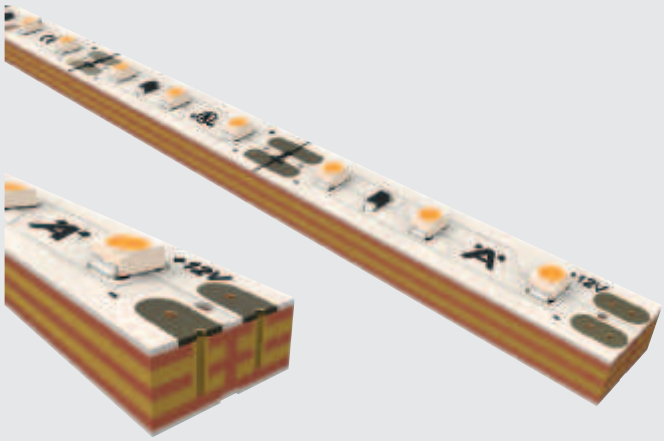
LED FLEXIBLE STRIP LIGHT

QUALITY FEATURES

How to recognize our quality:



Light emitting diode (LED):

> Use of extremely bright high-power LEDs for the best light quality
> Low light colour tolerance – subsequent purchases have the same colour
> After 30,000 hours the LEDs still have at least 70% of the light output (ambient temperature ≤35 °C)

Structure of strip light:

> Multi-layer for transporting high currents with little heat development
> Flexible copper alloy for avoiding broken conductor tracks
> Gold-plated contacts for a permanently reliable, corrosion-free contact
> White top coat with UV coating to prevent corrosion and yellowing, for permanent aesthetics
> Reflective white top coat – for better light yield
> The rear 3M© adhesive tape provides secure adhesion to practically any surface
> Strip lights can be individually shortened, extended and are also flexible due to clip and corner connectors

Can be individually combined with:

Profiles (see page 110)
Switches (see page 118)
Distributors (see page 126)

TEST THE LOOX
PLANNING SERVICE
www.hafele.com

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FAQ

QUESTIONS AND ANSWERS

Glossary

LED

A light-emitting diode (LED) is a semi-conductor element that emits light when electricity passes through it. This semi-conductor element consists of a crystal that is attached to a metal holder, and are both encapsulated in protective plastic. LEDs are mostly based on inorganic, i.e. non-carbonic materials.

OLED

Organic light-emitting diodes (OLEDs) are based upon organic (carbonic) materials. OLEDs are manufactured in thin layers and therefore provide a diffuse light source. The OLED technology is becoming more frequently used in display applications (e.g. mobile phones and PDA screens).

Service life of an LED L70

Up to 50,000 hours. L70 is the time after which the LED is still emitting 70% of its original light.

Infrared radiation from LEDs

LEDs do not emit infrared radiation like incandescent bulbs do.

Heat generation of LEDs

All light sources produce heat, even LEDs. However, they do not become very hot, especially if the LEDs and lights are fitted with “heat sinks”, they help to lead away heat.

Test of service life in accordance with the LM-80 standard

Häfele tests all LEDs it uses in accordance with the LM-80 standard. LM-80 is a standardised testing method, which allows products to bear the EPA's (Environmental Protection Agency) Energy Star. The test is a manufacturer-independent comparison of LEDs. During the test the luminous flux (Lumen maintenance) of an LED is tested at three different temperatures (55, 85, and 105 °C) for 6,000 hours. Then the life span L70 is calculated by means of extrapolation. The extrapolation procedure is described in regulation IES TM-21.

Lead in Loox products

Loox Products by Häfele are lead-free and adhere to the RoHS guidelines.

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FAQ

QUESTIONS AND ANSWERS

Technical questions about Loox

What has a major effect on the service life of drivers and LEDs?

An ambient temperature and/or voltage that is too high.

How long should the lead of an LED light / LED flexible strip light be?

6 metres, as with a longer lead the resistance drops and the specified light intensity can no longer be guaranteed.

What is the service life of the drivers?

At least 30,000 hours at a max. ambient temperature of 45°C.

Can an LED flexible strip light be used behind acrylic glass?

Yes, however the acrylic glass increases the colour variations (binning) up to four times and minimal colour deviations are therefore more visible.

Can the multi switch box, the multi driver box and the 3-way distributor with switching function be connected in series multiple times?

No, because the signals can no longer be transmitted properly.

With what output tolerance should drivers and LED lights be calculated?

±10 per cent

Can 12 V and 350 mA lights or 12 V and 24 V lights be used together?

Yes, please use our respective converter (converter see page 123).

Which ambient variables can lead to problems when using the door sensor switch?

High-gloss front panels and sliding doors. Solution: Please use motion detector.

Is it possible to control multiple colour mixers with a single remote control?

Yes, different colour mixers can be taught in on a single remote control.

Is the dimmer setting saved if the power fails?

The dimmer setting is saved for RGB/multi-white mixers, but the mixer has to have been connected to the mains for at least one minute.

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Technical questions about Loox

For how many Amperes are the Loox LED plug systems suitable?

2.5 Amperes

What is the maximum Wattage that I can connect to a light output on a driver?

With 12 V systems this is 12 V x 2.5 A = 30 W.
With 24 V systems this is 24 V x 2.5 A = 60 W.

What is AWG 22?

AWG stands for American Wire Gauge.
It is the coding for wire diameters in electrical leads that are mainly used in North America. This identifies the cross-section of wires in electrical leads that consist of strands and wire.

Can Loox lights be operated using multiple switches?

Yes, please use the multi switch box to do this. Up to three switches can be connected to the multi switch box. The dimmer does not work with the multi switch box (multi switch box see page 124).

What is the difference between the different LED flexible strip lights?

Some flexible strip lights are sheathed in silicone, which means that no profiles are required for installation.
These LED flexible strip lights can be directly installed in a groove or attached to a surface.
Other flexible strip lights do not have silicone and it is advisable to use aluminium profiles for installation and heat management.

What influence does the type of glass edge have on the lighting effect that is generated?

The lighting effect varies depending on the type of glass shelf.
> Glass edge with satin finish = even light line
> Clear glass edge = point light

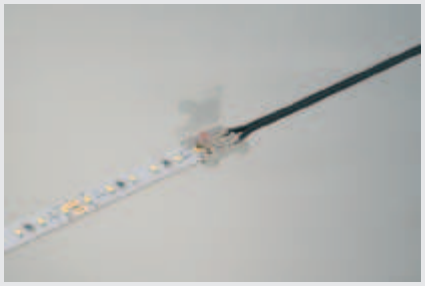
Can I simply cut LED flexible strip lights to length?

Yes, LED flexible strip lights can be shortened at the mark with the scissor symbol.

Example of LED flexible strip light: Cut off, fit clip connector and press on – finished.

Can be shortened

Installation: Self-adhesive



Lead with clip connector

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FAQ

QUESTIONS AND ANSWERS

Why do the lights have to be plugged in first before connecting the high voltage mains plug?

If the driver is connected to the power first, electrical power is output at the secondary side, which leads to overvoltage and therefore damage to the lights if they are connected.

Can Loox lights be used in RVs/boats?

Yes, but an upstream voltage stabiliser must always be installed, since voltage fluctuations occur in on-board power supplies and voltage peaks (even slight overvoltage) can reduce the service life of the lights considerably or cause damage.

How can I compare the output of an LED light with a halogen light?

Use the cone of light and compare the values at 500 mm. A 20 W halogen light features approx. 600 lx at 500 mm.

Troubleshooting

Why does the light flash at regular intervals when it is switched off?

This is caused by leakage current in the electrical installation which is charging the capacitor in the driver until it briefly gives off the power at regular intervals to discharge itself and the light therefore briefly flashes.
Solution: Check the entire installation.

Why does my LED light flash?

Flashing is a sign of (under or) overloading.
Use a driver with higher power or reduce the number of consumers.

What may be the cause if an RGB LED flexible strip light is only displaying individual colours?

The clip connector has been connected the wrong way round or the strip has been connected to the wrong end or to the driver.

Why is the door sensor switch not operating correctly?

When sliding doors are being used, the door sensor switch cannot record the movement of the door properly.
Dark surfaces (e.g. jet black) have poor reflection. The optical sensor may therefore fail to detect the door panel.
Solution: Use motion detectors

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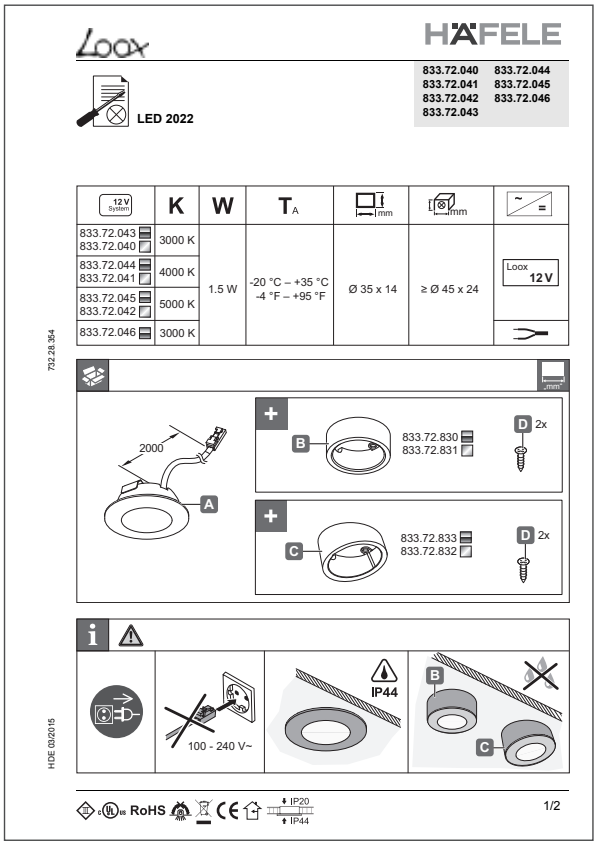
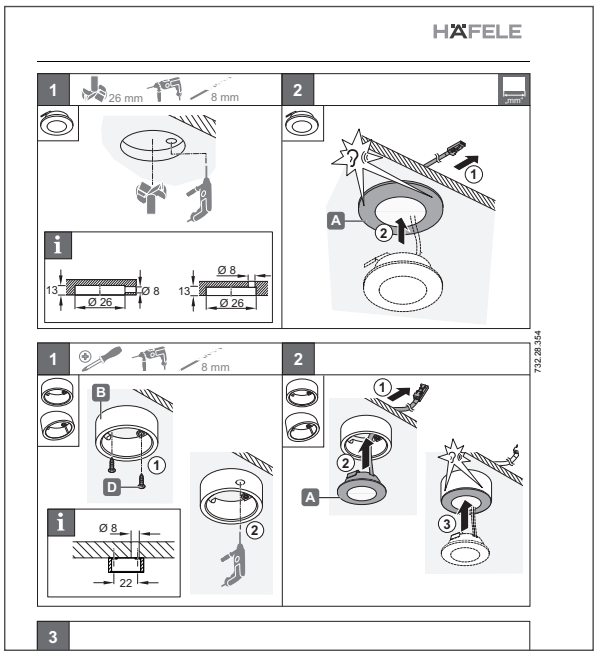
INSTALLATION INSTRUCTIONS

LANGUAGE NEUTRAL FOR ALL MARKETS

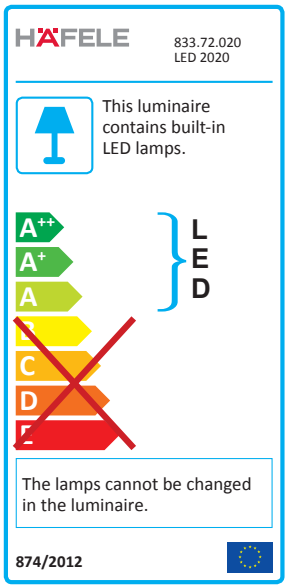
Language neutral installation instructions are provided for all Häfele Loox lighting systems.

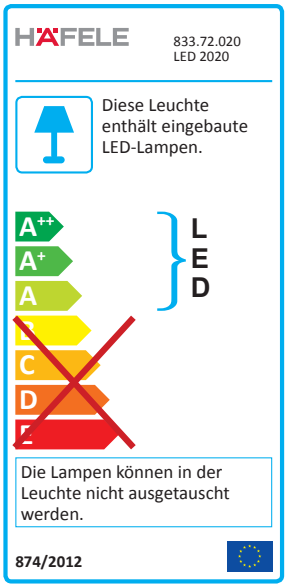




ENERGY EFFICIENCY CATEGORY

LABEL IN ALL EU LANGUAGES





Labels are available for downloading in all EU languages for all Loox lighting systems at **www.hafele.com.**

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