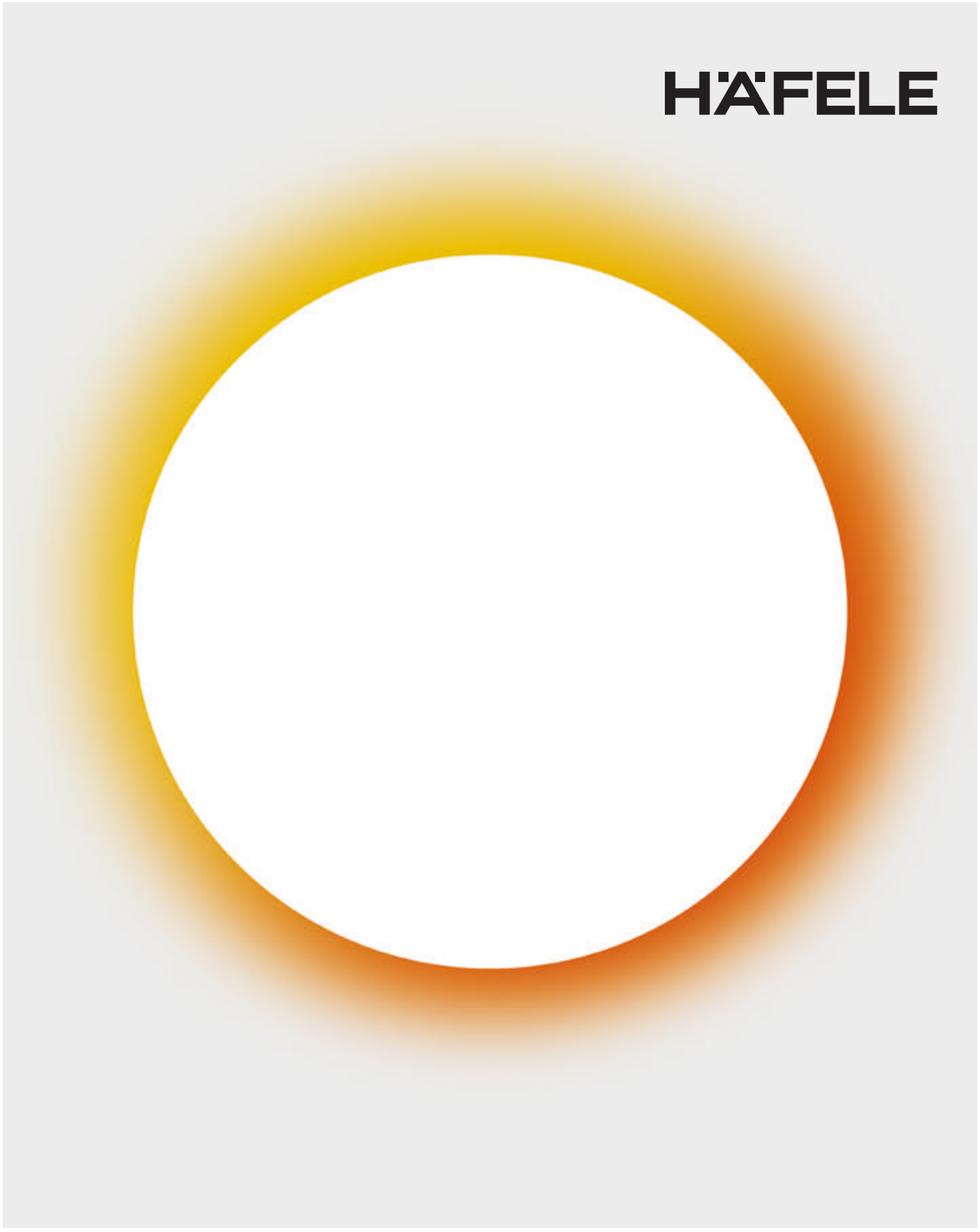
HÄFELE



LOX5

The LED lighting system
for furniture and rooms.

5

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Further development

System

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Linear light

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Häfele Connect Mesh

6-way distributor
Adapter multi-white, RGB, fittings
Remote control
Push button switch, wall mounted
2-channel interface

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Term definition

Distributor
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Leads and connectors for LED strip lights

Adapters Loox5/Loox

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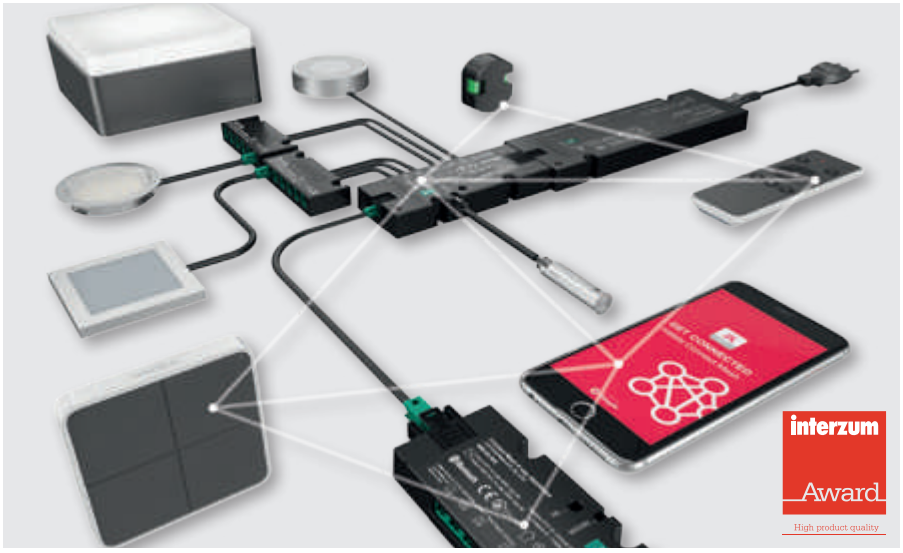
Linear light

Page

2

High-performance LED strip lights and design-oriented aluminium profiles – also available in the trendy colours black and brushed stainless steel coloured.



Häfele Connect Mesh

Page

96

The wireless network of lights and electrically operated fittings – with optional integration of the electrical installation of buildings.

Compatibility > Page 114

Adapters ensure compatibility: Using different Loox generations in one installation.

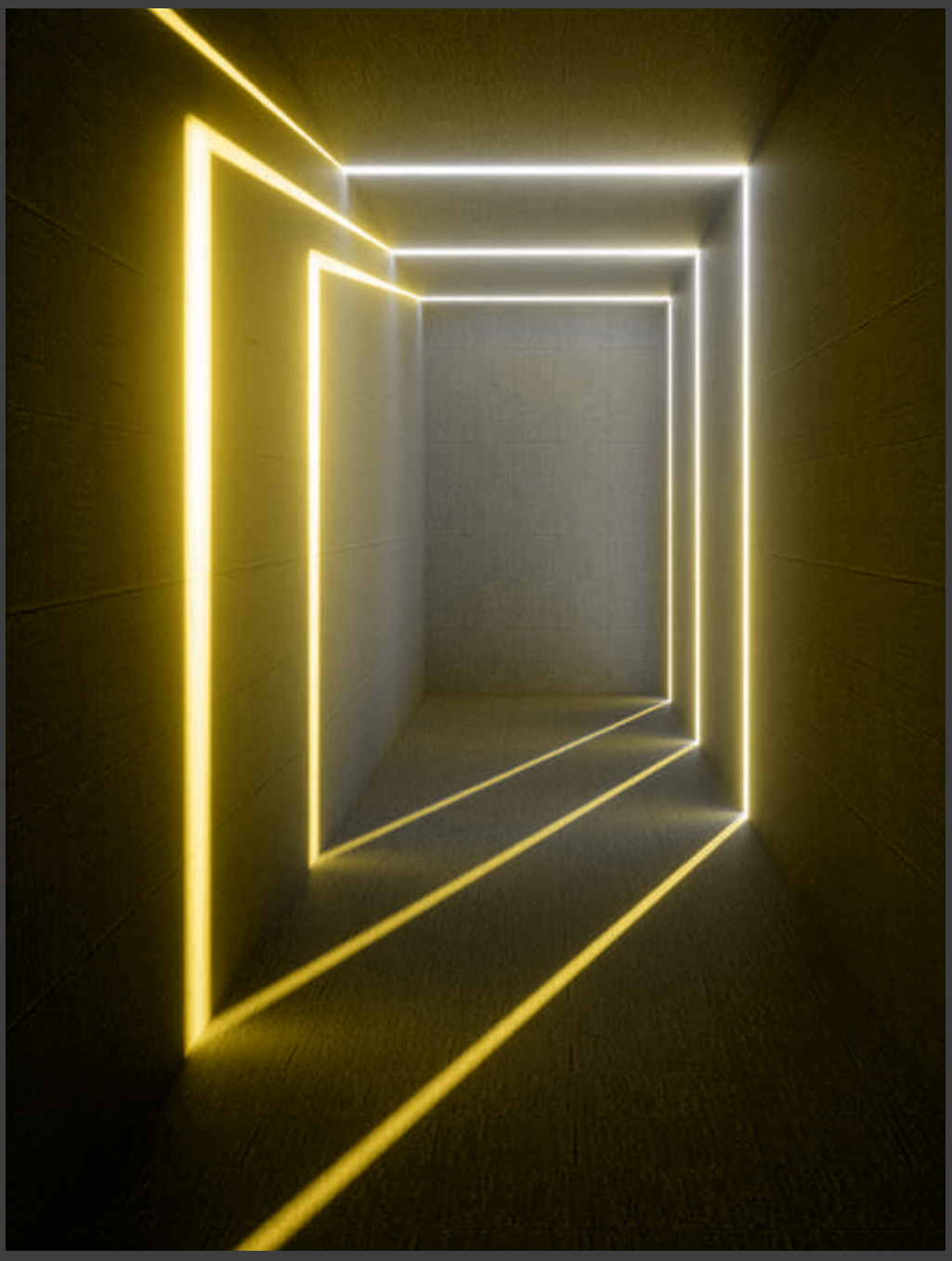
Technical data > Page 126

By professionals for professionals – all facts about LED strip lights at a glance.

Task light, Ambient light, Accent light > Page 144

Suitable areas of application for each light – now in a quick overview.

on.



LOOX5

We have spent about 100,000 hours working with LED lights, we have developed and researched, we have had many valuable discussions with partners in trade and industry – and we have learned a great deal. The market is demanding digital answers.

The result after four generations of Loox LED lights is therefore not simply further development, but a new level.
Our development has accelerated.
Because the world is accelerating, and the demands of our customers are growing at an equally rapid rate.

The essence of four generations.

We are driven by the same questions
time and time again.

How can it be made easier?
How can it be made better?
How can it be made more intelligent?

5

The essence of our experience
therefore has a new face.

Welcome to Loox5.

Easy.
Logical.
Linear.

Loox5

Supplying.

Output current 5 A. Suitable for longer installation routes.
Engineered by Häfele.

Loox5

Distributing.

Wired.

6-way distributor for monochrome lights. With connector for all standard switches from the Loox product range.

Straight down the line.

Loox5

Networking.

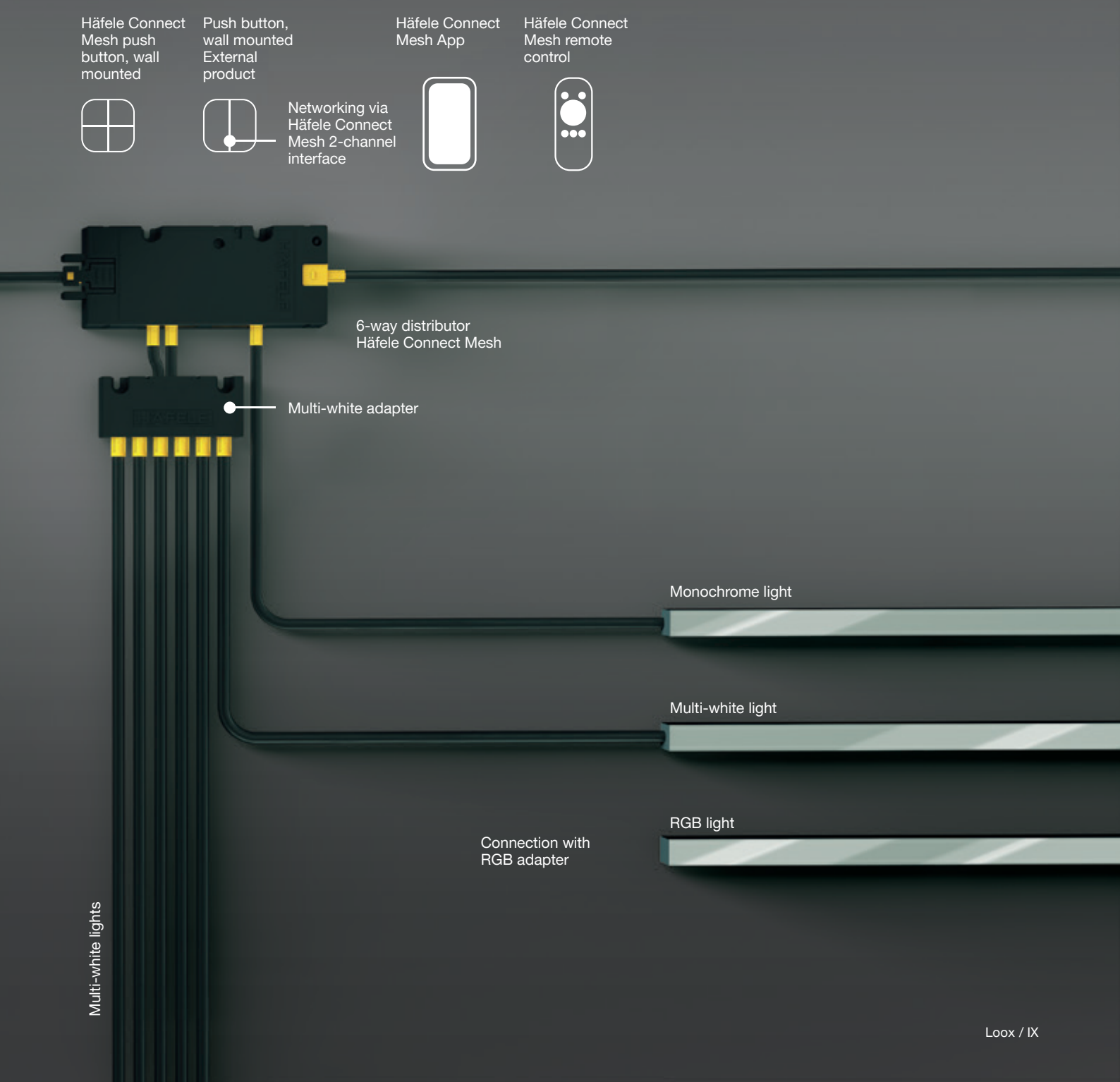
Wireless.

Häfele Connect Mesh 6-way distributor. For RGB, multi-white and monochrome lights. Engineered by Häfele.

Loox5

Illuminating.

Equipped with high-quality LEDs made by Samsung.



Loox5

Colour codes.

Intu
con

itive

__nec__tions.

RGB, multi-white, monochrome light.
The Häfele Connect Mesh 6-way distributor
controls everything. At once. Wireless.

Intelligent light, intelligently solved.

All-in-one

—

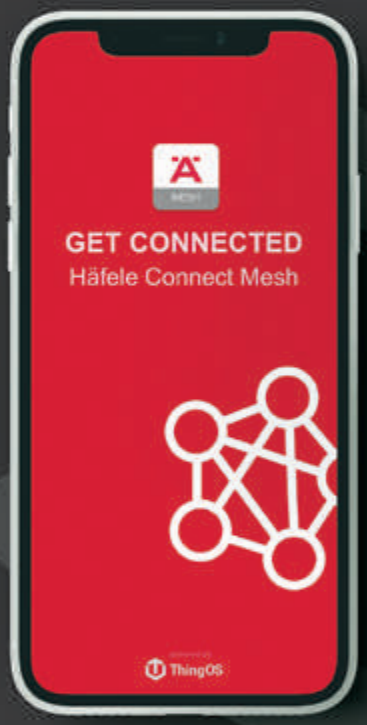
The Loox5 light control.

Häfele Connect Mesh 6-way distributor.

Häfele Connect Mesh App

Häfele Connect Mesh push button, wall mounted

Häfele Connect Mesh remote control



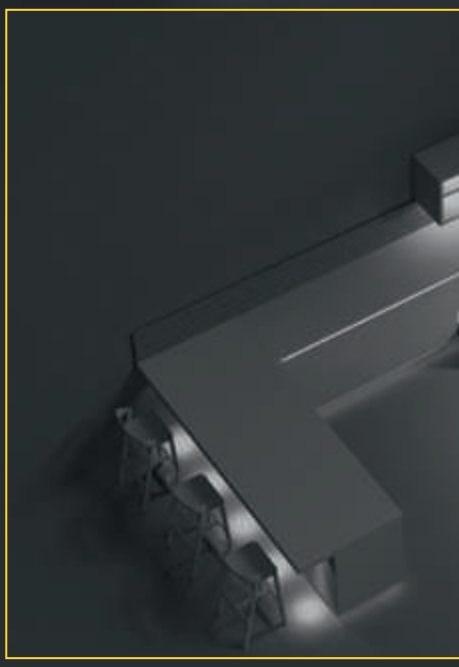
Control light and configure the lighting individually – it's that simple with the Loox5 system: all of the Loox5 lights installed in the house "register" in the Häfele Connect Mesh App and are integrated into the app interface in just a few steps. Now the lights can be individually activated, dimmed, their light colour can be changed, or they can be simply switched on and off. At the same time, different lighting scenarios can be created and saved. Operation can take place completely in accordance with requirements: via the app, via remote control or using wall-mounted push buttons. Integrating the Häfele Connect Mesh 2-channel interface also makes every standard wall-mounted push button compatible with the app. Loox5. A modular networking kit which can be described with one word: EASY.

Light is easy.

Few criteria.
Many solutions.

Light colour	Monochrome | Multi-white | RGB
Light intensity	Task light | Ambient light | Accent light
Light source	Linear light | Point light
Alignment	Directly or indirectly | Up or down | Forward or backward | To the side
Position on the cabinet	Outside | Inside
Installation type	Recess mounted | Surface mounted

Light in the sleeping area.
Ambience full of atmosphere for rest areas.



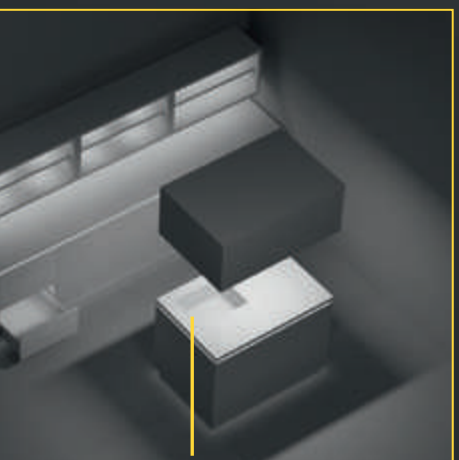
Light in the kitchen.
Functionality for every action.

Light colour Monochrome
Light intensity Ambient light
Light source Linear light
Alignment To the side
Installation type Attached at the side to the circular mounting plate behind the mirror
Example LED 3040, just 5 mm wide for slim design applications

Light in the storage space.

Orientation for
perfect organisation.

Light colour Monochrome
Light intensity Accent light
Light source Linear light
Alignment Down
Installation type Recess mounted
Example LED 2062



Light colour Monochrome
Light intensity Task light
Light source Linear light
Alignment Down
Installation type Recess mounted, several strips in parallel
Example LED 3048

Light colour Monochrome
Light intensity Task light
Light source Linear light
Alignment To the side
Position on the cabinet Inside
Installation type Recess mounted
Example LED 3051 with long-life constant current technology

Light in store fixtures.

Value for the presentation of goods.

Light is plannable.

The need to observe only a few planning steps structures and simplifies the planning of lighting in furniture.

Illuminating.

At the start of the development process, determine the lighting purposes of the furniture (multiple choices possible)
> Task light for pleasant and safe working
> Ambient light for highlighting, staging or emotionalising
> Accent light for storage spaces or paths
Also take into account the overall brightness of the room and the finishes to be illuminated: Sufficiently bright ceiling lighting or sunlight makes the orientation light unnecessary during the day, but at night it may be very pleasant if the ceiling lighting does not need to be used and a few furniture pieces provide some orientation light.
For confidence in the planning process, test lighting and finishes or use bright lighting with dimmers to achieve a balance of incident light and reflection.

The form factor of a light (linear, point) and the number used affects the planarity of the illumination. Light colour, installation type, position on the cabinet, and alignment are further criteria to select the perfect light.

Extending.

Häfele Loox5 drivers supply not only lights, but also charging stations (inductive and USB), audio systems, as well as electrically operated flap fittings, sliding doors, or TV lifts. Take advantage of the potential of Häfele Loox5. Create furniture that can do more than simply look good.

The chapter structure of the Loox brochure simplifies the ordering process by using this simple planning process.

Take advantage of the potential of Häfele Loox5 and create furniture that can do more than simply look good.

Switching.

Plan switch requirements and switch positions. Simple mechanical switches or convenient sensors and dimmers can be grouped together by means of multi driver or multi switch boxes to conveniently operate lights from a single location or from different locations.

Networking.

The Häfele Connect Mesh 6-way distributor is the central element for controlling monochrome lights, multi-white lights, or RGB lights individually or jointly. 6-way distributors can be networked. They can be controlled by remote control, wall-mounted push button, or app.

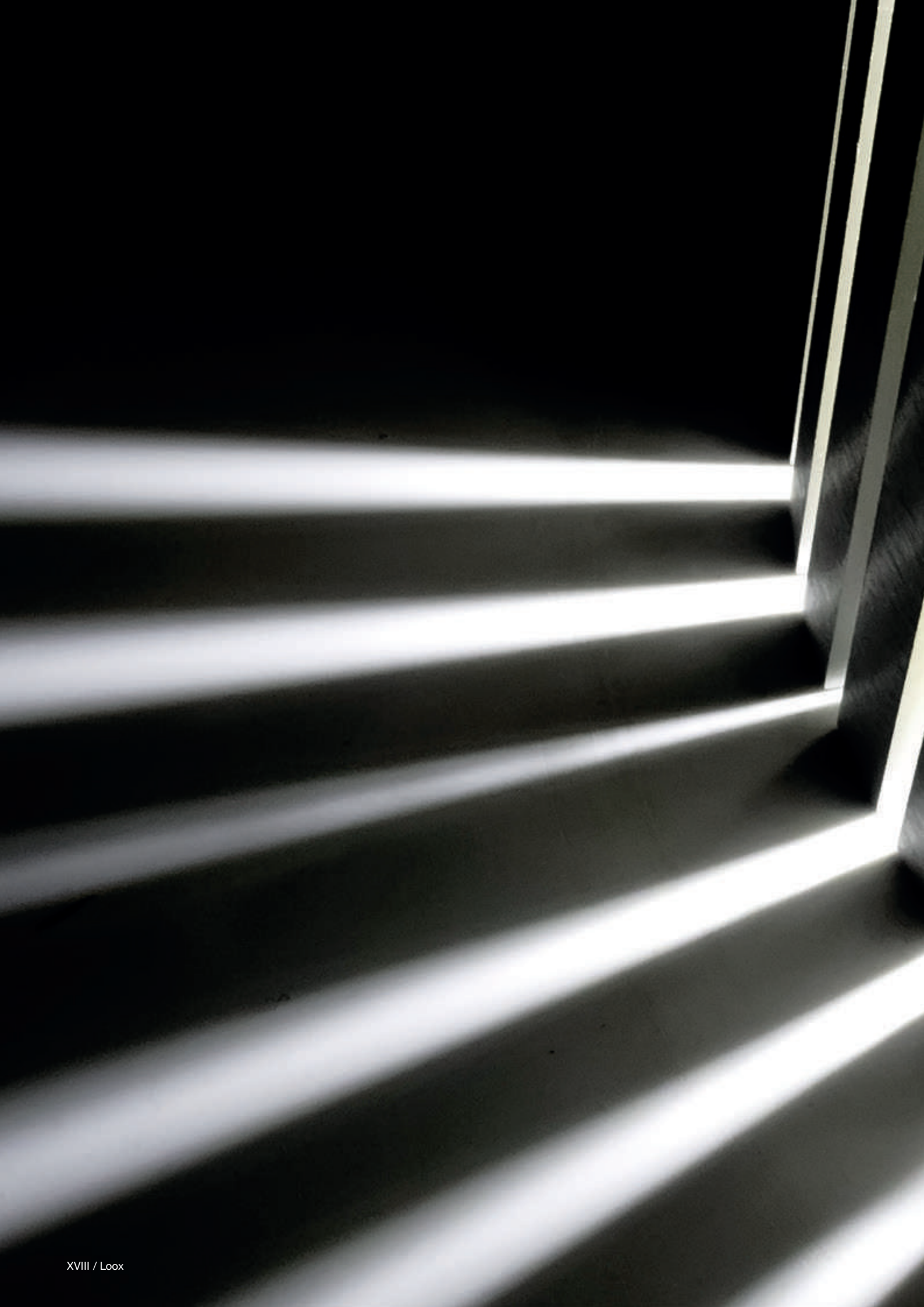
Distributing.

Plan the concealed cable routing and provide holes, grooves, or panels. An extensive range of extension leads and distributors facilitates suitable cabling of your project.

Supplying.

Add up the wattage of all lights and other devices.
If necessary, take into account possible later expansions and select a driver of the appropriate performance class. Lights of the same voltage type or current may be connected to a common driver. Converters are also available and are necessary if lights with different voltage types and currents will share a driver.

Choose a distributor for your current needs (with or without switching function or with Häfele Connect Mesh). The distributor can be easily replaced at a later time. Therefore, make sure the drivers are accessible in the furniture.



LOX5

Linear light

Task light Illuminate work spaces with > 500 lx at a distance of 500 mm

					Illuminance max. at a distance of 500 mm lx	
LED 3052	24 V	Constant current	8 mm	19.2 W/m	1840	> Page 12
LED 3051	24 V	Constant current	8 mm	14.4 W/m	1400	> Page 12
LED 3048	24 V		8 mm	14.4 W/m	1320	> Page 10
LED 3050	24 V	Constant current	8 mm	9.6 W/m	1010	> Page 12
LED 2068	12 V		8 mm	9.6 W/m	955	> Page 10
LED 3045	24 V		8 mm	9.6 W/m	955	> Page 10
LED 2061	12 V		5 mm	9.6 W/m	860	> Page 8
LED 3041	24 V		5 mm	9.6 W/m	860	> Page 8
LED 3046	24 V	Silicone sleeve	8 mm	9.6 W/m	860	> Page 14
LED 2077	12 V	Constant current	8 mm	9.6 W/m	830	> Page 12

Ambient light 150–500 lx at a distance of 500 mm

					Illuminance max. at a distance of 500 mm lx	
LED 2060	12 V		5 mm	4.8 W/m	1840	> Page 8
LED 3040	24 V		5 mm	4.8 W/m	1400	> Page 8
LED 2062	12 V		8 mm	4.8 W/m	1320	> Page 10
LED 2065	12 V		8 mm	4.8 W/m	1010	> Page 10
LED 3042	24 V		8 mm	4.8 W/m	955	> Page 10
LED 2063	12 V	Silicone sleeve	8 mm	4.8 W/m	860	> Page 14
LED 3043	24 V	Silicone sleeve	8 mm	4.8 W/m	860	> Page 14
LED 2032	12 V	Surface mounted light		3.0 W	860	> Page 36

Accent light <150 lx at a distance of 500 mm

LED 2019	12 V	Glass edge light	0.2 W	> Page 33
LED 9005	Battery-operated light	Drawer light	0.6 W	> Page 37

Multi-white lights

					Illuminance max. at a distance of 500 mm lx	
LED 3049	24 V		8 mm	14.4 W/m	1200	> Page 16
LED 2070	12 V		8 mm	9.6 W/m	865	> Page 16
LED 3047	24 V		8 mm	9.6 W/m	865	> Page 16
LED 2064	12 V		8 mm	4.8 W/m	445	> Page 16
LED 3044	24 V		8 mm	4.8 W/m	445	> Page 16

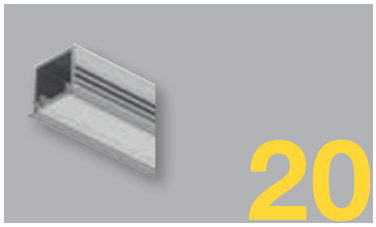
RGB lights

LED 2080	12 V	10 mm	9.6 W/m	> Page 18
LED 3080	24 V	10 mm	9.6 W/m	> Page 18

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Aluminium profiles for recess mounting

Model	Internal dimension		
1104	8 mm	For strip lights up to a width of 5 mm	> Page 20
1103	11 mm		> Page 20
1105	11 mm	Asymmetrical light distribution	> Page 21
	16 mm		> Page 22
1107	8 mm	Asymmetric light distribution, for strip lights up to a width of 5 mm	> Page 23
1106	11 mm	Asymmetrical light distribution	> Page 23



Plastic profiles for recess mounting

1102	5 mm		> Page 34
1101	8 mm		> Page 34

Aluminium profiles for recess mounting

2101, 2102	11 mm		> Page 24
2103	11 mm	With concealed fixing	> Page 26
2104	11 mm	With concealed fixing, asymmetric light distribution	> Page 26
	16 mm		> Page 28
	16 mm	With attached diffuser housing	> Page 29
	13 mm	Asymmetrical light distribution	> Page 30
	14 mm	Corner mounting	> Page 30
	14 mm	Drawer profile	> Page 31

Surface mounted aluminium profiles

	16 mm	Mounting arm, swivelling for profile for recess mounting, with attached diffuser housing	> Page 29

Aluminium wardrobe rail

	15 mm	Asymmetrical light distribution	> Page 32

Plastic glass edge profile

	11 mm		> Page 32

Aluminium cooling strip

	10 mm		> Page 35

Diffusers

For profiles for recess mounting 1103-1107	> Page 35
For profiles for recess mounting 2101-2104	
For Loox profiles with 16 mm internal dimension	> Page 35

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Point light

Task light

Illuminate work spaces with > 500 lx at a distance of 500 mm

	LED 2025	12 V	Recess mounted/surface mounted	Drill hole Ø 58 mm	3.8 W	> Page 38
	LED 3022	24 V	Recess mounted	Drill hole Ø 180 mm	4.8 W	> Page 68
	LED 3023	24 V	Surface mounted	Ø 180 mm	4.8 W	> Page 69
	LED 3024	24 V	Recess mounted	210 x 210 mm	5.8 W	> Page 70
	LED 3025	24 V	Surface mounted	205 x 205 mm	5.8 W	> Page 71

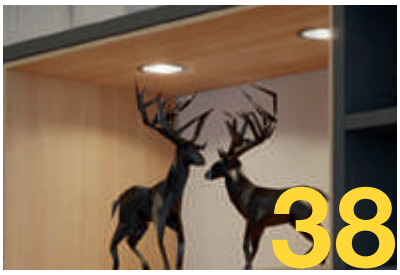
Spotlighting (higher intensity than task lights with very narrow beam angle)

Highlight objects with >500 lx at a distance of 500 mm

	LED 4013	350 mA	Surface mounted	44 x 33 mm corner mounting	1.0 W	> Page 76
	LED 4011	350 mA	Surface mounted	Spotlight, post light	1.0 W	> Page 77

Ambient light

Stage furnishings with 150–500 lx at a distance of 500 mm



	LED 2092 LED 3092	12 V 24 V	Recess mounted/ surface mounted	Drill hole Ø 58 mm	3.4 W	> Page 38
	LED 2040	12 V	Recess mounted/ surface mounted	Drill hole Ø 35 mm	3.4 W	> Page 42
	LED 2090 LED 3090	12 V 24 V	Recess mounted/ surface mounted	Drill hole Ø 26 mm	1.2 W	> Page 44
	LED 2047 LED 3038	12 V 24 V	Recess mounted/ surface mounted	Drill hole Ø 55 mm	3.0 W	> Page 46
	LED 2020	12 V	Recess mounted/ surface mounted	Drill hole Ø 55 mm	3.2 W	> Page 50
	LED 2022	12 V	Recess mounted/ surface mounted	Drill hole Ø 26 mm	1.5 W	> Page 52
	LED 2023	12 V	Recess mounted/ surface mounted	Drill hole Ø 26 mm	1.5 W	> Page 54
	LED 2039	12 V	Recess mounted	Ø 58 mm	2.5 W	> Page 56
	LED 2027	12 V	Recess mounted	Drill hole Ø 65 mm	2.6 W	> Page 60
	LED 2050	12 V	Surface mounted	Ø 65 mm	2.5 W	> Page 58
	LED 2051	12 V	Surface mounted	65 x 65 mm	2.5 W	> Page 59

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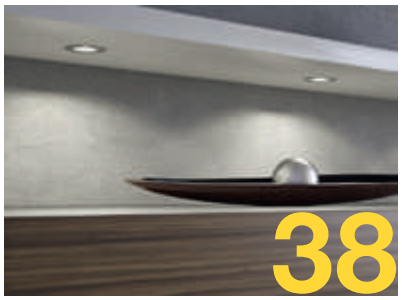
Ambient light

	LED 2033	12 V	Surface mounted	65 x 118 mm	3.8 W	> Page 61
	LED 3010	24 V	Recess mounted/ surface mounted	Drill hole Ø 60 mm	3.3 W	> Page 66
	LED 3035	24 V	Surface mounted	Ø 65 mm	2.5 W	> Page 72
	LED 3036	24 V	Surface mounted	65 x 65 mm	2.5 W	> Page 73
	LED 4009	350 mA	Recess mounted/ surface mounted	Drill hole Ø 55 mm	3.9 W	> Page 74



Accent light

Illuminate non-hazardous traffic areas and corridors or storage spaces with <150 lx at a distance of 500 mm

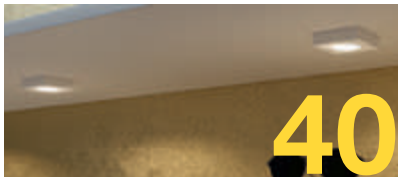
	LED 2028	12 V	Recess mounted	Drill hole Ø 54 mm	0.3 W	> Page 57
	LED 9003	Battery-operated light	Surface mounted	Ø 100 mm	0.6 W	> Page 80
	LED 9004	Battery-operated light	Surface mounted	120 x 65 mm	0.8 W	> Page 81

Flexible surface mounted lights

	LED 2034	12 V	Surface mounted, with charging station		1.5 W	> Page 62
	LED 2035	12 V	Surface mounted		1.5 W	> Page 63
	LED 2018	12 V	Surface mounted		2.0 W	> Page 64
	LED 3018	24 V	Surface mounted		2.8 W	> Page 65

Multi-white lights

	LED 2091 LED 3091	12 V 24 V	Recess mounted/ surface mounted	Drill hole Ø 58 mm	3.4 W	> Page 40
	LED 2048 LED 3039	12 V 24 V	Recess mounted/ surface mounted	Drill hole Ø 26 mm	3.0 W	> Page 48



RGB lights

	LED 2081 LED 3081	12 V 24 V	Surface mounted	65 x 65 mm	0.7 W	> Page 78

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Linear light

For universal use in furniture.

Good reasons.

> Continuous light line with homogeneous light distribution
> Minimalistic design
> Virtually invisible, glare-free light source
> Easy installation

For every situation.

> Radiant task light for work spaces
> Discreet ambient light for wellness zones
> Splash-proof silicone strip lights for bathroom applications
> Plastic profiles for vertical illumination in storage spaces
> Aluminium profiles in trendy colours for top-of-the-line design demands

LED strip lights

Monochrome, 5 mm

Häfele Loox5 LED 2060/2061/3040/3041

LED 2060/2061

LED 3040/3041

EXTRA NARROW 5 mm

Illuminance value in lx applies to 1 m strip length:

2700 K	3000 K	4000 K	5000 K	120°
940 lx	970 lx	1000 lx	1030 lx	250 mm
400 lx	420 lx	430 lx	430 lx	500 mm
220 lx	235 lx	240 lx	240 lx	750 mm
135 lx	145 lx	145 lx	145 lx	1000 mm

LED 2060/3040

2700 K	3000 K	4000 K	5000 K	120°
1860 lx	1960 lx	2000 lx	2060 lx	250 mm
790 lx	850 lx	860 lx	860 lx	500 mm
440 lx	470 lx	480 lx	480 lx	750 mm
270 lx	290 lx	290 lx	290 lx	1000 mm

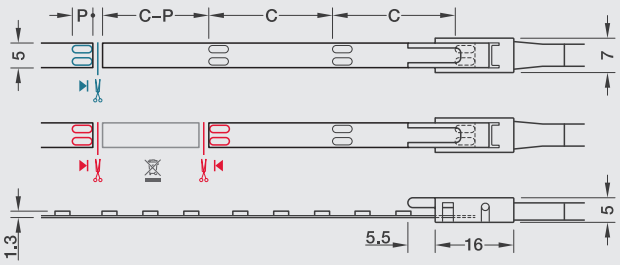
LED 2061/3041

Equipped with high-quality Samsung LEDs

> Dimmable:	Yes
> Material:	Plastic
> Finish/colour:	White
> Width:	5 mm
> Height:	1.3 mm
> Life time L80/B10:	>50,000 h
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Mounting:	Self-adhesive
> Supplied with:	1 roll

Order reference:
Please order lead separately.

Aluminium profile recommended from 9.6 W/m, see page 20



Cut LED strip light to length
(one contact side remains on the remainder piece; reusable)
Connect LED strip lights
(two contact sides required)

C = section length
P = length of contact surface

5 12 V Loox5 12 V driver see page 121

5 24 V Loox5 24 V driver see page 122

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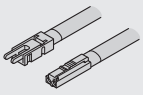
IP20

Häfele Loox5 LED 2060 / 2061 / 3040 / 3041

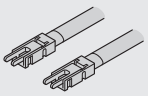
Voltage	Quantity	Colour temperature	Wattage	Luminous flux	Luminous efficacy	Colour rendering index CRI		Weight. energy consumpt. per m in kWh/1000 h	Section length C	Length of contact surface P	Max. strip length (visual)	Available length	
V	LEDs/m	K	W/m	lm/m	lm/W	R_a	R_9		mm	mm	m	5 m	15 m
5 12 V	**Häfele Loox5 LED 2060**												
	120	2700	4.8	440	92	>90	>50	5.28	25	3	4.0	**833.74.320**	**833.74.324**
		3000	4.8	460	96	>90	>50	5.28	25	3	4.0	**833.74.321**	**833.74.325**
		4000	4.8	480	100	>90	>50	5.28	25	3	4.0	**833.74.322**	**833.74.326**
		5000	4.8	495	103	>90	>50	5.28	25	3	4.0	**833.74.323**	**833.74.327**
	Häfele Loox5 LED 2061												
	120	2700	9.6	870	91	>90	>50	10.56	25	3	3.0	**833.74.328**	**833.74.332**
		3000	9.6	830	97	>90	>50	10.56	25	3	3.0	**833.74.329**	**833.74.333**
		4000	9.6	955	99	>90	>50	10.56	25	3	3.0	**833.74.330**	**833.74.334**
		5000	9.6	990	103	>90	>50	10.56	25	3	3.0	**833.74.331**	**833.74.335**
5 24 V	**Häfele Loox5 LED 3040**												
	120	2700	4.8	440	92	>90	>50	5.28	50	3	8.0	**833.76.300**	**833.76.304**
		3000	4.8	460	96	>90	>50	5.28	50	3	8.0	**833.76.301**	**833.76.305**
		4000	4.8	480	100	>90	>50	5.28	50	3	8.0	**833.76.302**	**833.76.306**
		5000	4.8	495	103	>90	>50	5.28	50	3	8.0	**833.76.303**	**833.76.307**
	Häfele Loox5 LED 3041												
	120	2700	9.6	870	91	>90	>50	10.56	50	3	5.5	**833.76.308**	**833.76.312**
		3000	9.6	930	97	>90	>50	10.56	50	3	5.5	**833.76.309**	**833.76.313**
		4000	9.6	955	99	>90	>50	10.56	50	3	5.5	**833.76.310**	**833.76.314**
		5000	9.6	990	103	>90	>50	10.56	50	3	5.5	**833.76.311**	**833.76.315**

Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.
Maximum wattage-dependent strip length on the driver, see page 126.



> 3.5 A/20 AWG lead
for LED strip light 5 mm

Voltage	Length mm	Cat. No.
5 12 V	2000	833.95.705
5 24 V	2000	833.95.711



> 3.5 A/20 AWG interconnecting lead
for 5 mm LED strip light

Length mm	Cat. No.
50	**833.89.194**
500	**833.89.195**
2000	**833.89.196**

> 3.5 A clip connector
for 5 mm LED strip light

	Cat. No.
Clip connector	**833.89.207**

> Corner connector, 90° rigid, 3.5 A
for left or right for 5 mm LED strip light

	Cat. No.
Corner connector rigid	**833.89.190**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

LED strip lights

Monochrome, 8 mm

Häfele Loox5 LED 2062/2065/2068/3042/3045/3048

LED 2062

LED 2065/2068

LED 3042/3045/3048

Illuminance value in lx applies to 1 m strip length:

2700 K	3000 K	4000 K	5000 K	120°	
1050 lx	1090 lx	1120 lx	1130 lx		250 mm
435 lx	455 lx	460 lx	470 lx		500 mm
240 lx	245 lx	260 lx	260 lx		750 mm
145 lx	150 lx	155 lx	160 lx		1000 mm

LED 2062/2065/3042

2700 K	3000 K	4000 K	5000 K	120°	
2145 lx	2250 lx	2300 lx	2300 lx		250 mm
900 lx	940 lx	950 lx	955 lx		500 mm
480 lx	505 lx	510 lx	515 lx		750 mm
300 lx	310 lx	320 lx	320 lx		1000 mm

LED 2068/3045

2700 K	3000 K	4000 K	5000 K	120°	
2870 lx	3000 lx	3100 lx	3100 lx		250 mm
1210 lx	1270 lx	1310 lx	1320 lx		500 mm
665 lx	695 lx	715 lx	715 lx		750 mm
415 lx	430 lx	445 lx	450 lx		1000 mm

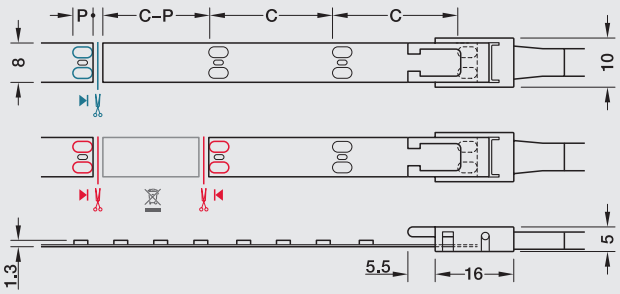
LED 3048

Equipped with high-quality Samsung LEDs

> Dimmable:	Yes
> Material:	Plastic
> Finish/colour:	White
> Width:	8 mm
> Height:	1.3 mm
> Life time L80/B10:	>50,000 h
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Mounting:	Self-adhesive
> Supplied with:	1 roll

Order reference:
Please order lead separately.

Aluminium profile recommended from 9.6 W/m, see page 20



Cut LED strip light to length
(one contact side remains on the remainder piece; reusable)
Connect LED strip lights
(two contact sides required)

C = section length
P = length of contact surface

5 12 V Loox5 12 V driver see page 121

5 24 V Loox5 24 V driver see page 122

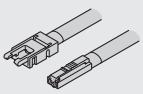
Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%. Maximum wattage-dependent strip length on the driver, see page 126.

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

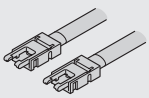
Häfele Loox5 LED 2062/2065/2068/3042/3045/3048

Voltage V	Quantity LEDs/m	Colour temperature K	Wattage W/m	Luminous flux lm/m	Luminous efficacy lm/W	Colour rendering index CRI R_a	R_9	Weight. energy consumpt. per m in kWh/1000 h	Section length C mm	Length of contact surface P mm	Max. strip length (visual) m	Available length 5 m	Available length 50 m
5 12 V	**Häfele Loox5 LED 2062**												
	60	2700	4.8	440	92	>90	>50	5.28	50	4	6.0	**833.74.336**	**833.74.340**
		3000	4.8	465	97	>90	>50	5.28	50	4	6.0	**833.74.337**	**833.74.341**
		4000	4.8	490	102	>90	>50	5.28	50	4	6.0	**833.74.338**	**833.74.342**
		5000	4.8	495	103	>90	>50	5.28	50	4	6.0	**833.74.339**	**833.74.343**
	Häfele Loox5 LED 2065												
	120	2700	4.8	440	92	>90	>50	5.28	25	4	6.0	**833.74.354**	**833.74.358**
		3000	4.8	465	97	>90	>50	5.28	25	4	6.0	**833.74.355**	**833.74.359**
		4000	4.8	490	102	>90	>50	5.28	25	4	6.0	**833.74.356**	**833.74.360**
		5000	4.8	495	103	>90	>50	5.28	25	4	6.0	**833.74.357**	**833.74.361**
	Häfele Loox5 LED 2068												
	120	2700	9.6	920	96	>90	>50	10.56	25	4	4.0	**833.74.362**	**833.74.366**
		3000	9.6	970	101	>90	>50	10.56	25	4	4.0	**833.74.363**	**833.74.367**
		4000	9.6	1000	104	>90	>50	10.56	25	4	4.0	**833.74.364**	**8337.4.368**
		5000	9.6	1040	108	>90	>50	10.56	25	4	4.0	**833.74.365**	**833.74.369**
5 24 V	**Häfele Loox5 LED 3042**												
	120	2700	4.8	440	92	>90	>50	5.28	50	4	12.0	**833.76.316**	**833.76.320**
		3000	4.8	465	97	>90	>50	5.28	50	4	12.0	**833.76.317**	**833.76.321**
		4000	4.8	490	102	>90	>50	5.28	50	4	12.0	**833.76.318**	**833.76.322**
		5000	4.8	495	103	>90	>50	5.28	50	4	12.0	**833.76.319**	**833.76.323**
	Häfele Loox5 LED 3045												
	120	2700	9.6	920	96	>90	>50	10.56	50	4	8.0	**833.76.334**	**833.76.338**
		3000	9.6	970	101	>90	>50	10.56	50	4	8.0	**833.76.335**	**833.76.339**
		4000	9.6	1000	104	>90	>50	10.56	50	4	8.0	**833.76.336**	**833.76.340**
		5000	9.6	1040	108	>90	>50	10.56	50	4	8.0	**833.76.337**	**833.76.341**
	Häfele Loox5 LED 3048												
	120	2700	14.4	1270	88	>90	>50	15.84	50	4	6.2	**833.76.352**	**833.76.356**
		3000	14.4	1305	91	>90	>50	15.84	50	4	6.2	**833.76.353**	**833.76.357**
		4000	14.4	1340	93	>90	>50	15.84	50	4	6.2	**833.76.354**	**833.76.358**
		5000	14.4	1430	99	>90	>50	15.84	50	4	6.2	**833.76.355**	**833.76.359**



> 5 A/18 AWG lead
for LED strip light 8 mm

Voltage	Length mm	Cat. No.
5 12 V	100	**833.93.736**
	500	**833.95.701**
	2000	**833.95.700**
5 24 V	100	**833.75.743**
	500	**833.95.707**
	2000	**833.95.706**



> 5 A/18 AWG interconnecting lead
for 8 mm LED strip light

Length mm	Cat. No.
50	**833.89.191**
500	**833.89.192**
2000	**833.89.193**

> 5 A clip connector
for 8 mm LED strip light

	Cat. No.
Clip connector	**833.89.206**

> Corner connector, 90° rigid, 5 A
for left or right for 8 mm LED strip light

	Cat. No.
Corner connector rigid	**833.89.187**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

LED strip lights

Monochrome, constant current, 8 mm

Häfele Loox5 LED 2077 / 3050 / 3051 / 3052

LED 2077

LED 3050 / 3051 / 3052

Constant current technology
> Achieves uniform brightness over the entire strip light length
> Increased life time, higher visual strip length, higher luminous efficacy

Equipped with high-quality Samsung LEDs

> Dimmable:	Yes
> Material:	Plastic
> Finish/colour:	White
> Width:	8 mm
> Height:	1.5 mm
> Life time L80/B10:	>70,000 h
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Mounting:	Self-adhesive
> Supplied with:	1 roll

Illuminance value in lx applies to 1 m strip length:

2700 K	3000 K	4000 K	5000 K	120°
1775 lx	1850 lx	1950 lx	1950 lx	250 mm
760 lx	790 lx	830 lx	830 lx	500 mm
425 lx	440 lx	465 lx	465 lx	750 mm
265 lx	270 lx	285 lx	285 lx	1000 mm

LED 2077

2700 K	3000 K	4000 K	5000 K	120°
2050 lx	2150 lx	2205 lx	2340 lx	250 mm
890 lx	930 lx	990 lx	1010 lx	500 mm
490 lx	520 lx	545 lx	550 lx	750 mm
305 lx	325 lx	335 lx	340 lx	1000 mm

LED 3050

2700 K	3000 K	4000 K	5000 K	120°
3150 lx	3170 lx	3190 lx	3200 lx	250 mm
1365 lx	1385 lx	1390 lx	1400 lx	500 mm
760 lx	770 lx	770 lx	770 lx	750 mm
470 lx	480 lx	480 lx	480 lx	1000 mm

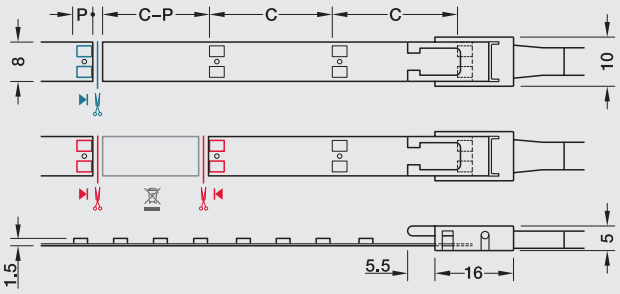
LED 3051

2700 K	3000 K	4000 K	5000 K	120°
4070 lx	4160 lx	4220 lx	4260 lx	250 mm
1750 lx	1780 lx	1800 lx	1840 lx	500 mm
970 lx	990 lx	1000 lx	1020 lx	750 mm
600 lx	620 lx	625 lx	630 lx	1000 mm

LED 3052

Order reference:
Please order lead separately.

Aluminium profile recommended from 9.6 W/m, see page 20



Cut LED strip light to length
(one contact side remains on the remainder piece; reusable)
Connect LED strip lights
(two contact sides required)

C = section length
P = length of contact surface

5 12 V Loox5 12 V driver see page 121

5 24 V Loox5 24 V driver see page 122

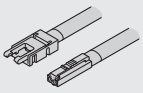
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

Häfele Loox5 LED 2077 / 3050 / 3051 / 3052

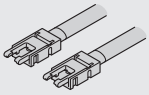
Voltage	Quantity	Colour temperature	Wattage	Luminous flux	Luminous efficacy	Colour rendering index CRI		Weight. energy consumpt. per m in kWh/1000 h	Section length C	Length of contact surface P	Max. strip length (visual)	Available length	
V	LEDs/m	K	W/m	lm/m	lm/W	R_a	R_9		mm	mm	m	5 m	50 m
5 12 V	**Häfele Loox5 LED 2077**												
	120	2700	9.6	810	84	>90	>50	10.56	25	4	6.2	**833.74.372**	**833.74.376**
		3000	9.6	860	90	>90	>50	10.56	25	4	6.2	**833.74.373**	**833.74.377**
		4000	9.6	900	94	>90	>50	10.56	25	4	6.2	**833.74.374**	**833.74.378**
		5000	9.6	905	94	>90	>50	10.56	25	4	6.2	**833.74.375**	**833.74.379**
5 24 V	**Häfele Loox5 LED 3050**												
	140	2700	9.6	945	98	>90	>50	10.56	50	3	9.0	**833.76.362**	**833.76.366**
		3000	9.6	1030	107	>90	>50	10.56	50	3	9.0	**833.76.363**	**833.76.367**
		4000	9.6	1060	110	>90	>50	10.56	50	3	9.0	**833.76.364**	**833.76.368**
		5000	9.6	1080	113	>90	>50	10.56	50	3	9.0	**833.76.365**	**833.76.369**
	Häfele Loox5 LED 3051												
	140	2700	14.4	1430	99	>90	>50	15.84	50	3	6.2	**833.76.370**	**833.76.374**
		3000	14.4	1520	106	>90	>50	15.84	50	3	6.2	**833.76.371**	**833.76.375**
		4000	14.4	1605	111	>90	>50	15.84	50	3	6.2	**833.76.372**	**833.76.376**
		5000	14.4	1650	115	>90	>50	15.84	50	3	6.2	**833.76.373**	**833.76.377**
	Häfele Loox5 LED 3052												
	140	2700	19.2	1850	96	>90	>50	21.12	50	3	4.6	**833.76.378**	**833.76.382**
		3000	19.2	2015	105	>90	>50	21.12	50	3	4.6	**833.76.379**	**833.76.383**
		4000	19.2	2050	107	>90	>50	21.12	50	3	4.6	**833.76.380**	**833.76.384**
		5000	19.2	2100	109	>90	>50	21.12	50	3	4.6	**833.76.381**	**833.76.385**

The maximum visual strip length for Loox5 constant current strips is the length without drop in luminous flux.
Maximum wattage-dependent strip length on the driver, see page 128.



> 5 A/18 AWG lead
for LED strip light 8 mm

Voltage	Length mm	Cat. No.
5 12 V	100	**833.93.736**
	500	**833.95.701**
	2000	**833.95.700**
5 24 V	100	**833.75.743**
	500	**833.95.707**
	2000	**833.95.706**



> 5 A/18 AWG interconnecting lead
for 8 mm LED strip light

Length mm	Cat. No.
50	**833.89.191**
500	**833.89.192**
2000	**833.89.193**

> 5 A clip connector
for 8 mm LED strip light

	Cat. No.
Clip connector	**833.89.206**

> Corner connector, 90° rigid, 5 A
for left or right for 8 mm LED strip light

	Cat. No.
Corner connector rigid	**833.89.187**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

LED silicone strip lights

Monochrome, 8 mm

Häfele Loox5 LED 2063/3043/3046

LED 2063

LED 3043/3046

Illuminance value in lx applies to 1 m strip length:

2700 K	3000 K	4000 K	5000 K	120°	
920 lx	960 lx	975 lx	1010 lx		250 mm
390 lx	410 lx	415 lx	425 lx		500 mm
215 lx	225 lx	230 lx	235 lx		750 mm
135 lx	140 lx	145 lx	145 lx		1000 mm

LED 2063 /3043

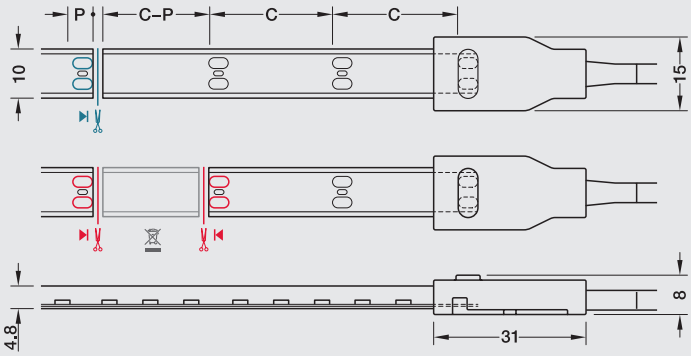
2700 K	3000 K	4000 K	5000 K	120°	
1855 lx	1895 lx	1960 lx	2020 lx		250 mm
790 lx	805 lx	840 lx	860 lx		500 mm
435 lx	445 lx	465 lx	475 lx		750 mm
270 lx	275 lx	290 lx	295 lx		1000 mm

LED 3046

Equipped with high-quality Samsung LEDs

> Dimmable:	Yes
> Material:	Plastic
> Finish/colour:	White
> Width:	Strip: 8 mm, silicone sleeve: 10 mm
> Height:	Strip: 1.3 mm, silicone sleeve: 4.8 mm
> Life time L80/B10:	>50,000 h
> Energy efficiency class:	A+
> Degree of protection:	IP44 / IP20 optional
> Mounting:	Self-adhesive
> Supplied with:	1 roll

Order reference:
Please order lead separately.



Cut LED strip light to length
(one contact side remains on the remainder piece; reusable)
Connect LED strip lights
(two contact sides required)

C = section length
P = length of contact surface

5 12 V Loox5 12 V driver see page 121

5 24 V Loox5 24 V driver see page 122

Minimal colour deviations due to silicone sleeve:

Colour temperature of the LED	Colour deviation
2700 K	–30 K
3000 K	–40 K
4000 K	–50 K
5000 K	-80 K

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

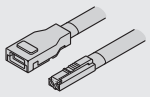
IP44

Häfele Loox5 LED 2063/3043/3046

Voltage V	Quantity LEDs/m	Colour temperature K	Wattage W/m	Luminous flux lm/m	Luminous efficacy lm/W	Colour rendering index CRI R_a	R_9	Weight. energy consumpt. per m in kWh/1000 h	Section length C mm	Length of contact surface P mm	Max. strip length (visual) m	Available length 5 m	15 m
5 12 V	**Häfele Loox5 LED 2063**												
	60	2700	4.8	415	86	>90	>50	5.28	50	4	6.0	**833.74.344**	**833.74.348**
		3000	4.8	440	92	>90	>50	5.28	50	4	6.0	**833.74.345**	**833.74.349**
		4000	4.8	455	95	>90	>50	5.28	50	4	6.0	**833.74.346**	**833.74.350**
		5000	4.8	460	96	>90	>50	5.28	50	4	6.0	**833.74.347**	**833.74.351**
5 24 V	**Häfele Loox5 LED 3043**												
	120	2700	4.8	415	86	>90	>50	5.28	50	4	12.0	**833.76.324**	**833.76.328**
		3000	4.8	440	92	>90	>50	5.28	50	4	12.0	**833.76.325**	**833.76.329**
		4000	4.8	455	95	>90	>50	5.28	50	4	12.0	**833.76.326**	**833.76.330**
		5000	4.8	460	96	>90	>50	5.28	50	4	12.0	**833.76.327**	**833.76.331**
	Häfele Loox5 LED 3046												
	120	2700	9.6	820	85	>90	>50	10.56	50	4	8.0	**833.76.342**	**833.76.346**
		3000	9.6	870	91	>90	>50	10.56	50	4	8.0	**833.76.343**	**833.76.347**
		4000	9.6	900	94	>90	>50	10.56	50	4	8.0	**833.76.344**	**833.76.348**
		5000	9.6	930	97	>90	>50	10.56	50	4	8.0	**833.76.345**	**833.76.349**

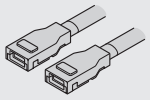
Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.
Maximum wattage-dependent strip length on the driver, see page 128.

Degree of protection IP44



> 5 A/18 AWG lead
for 8 mm LED silicone strip light

Voltage	Length mm	Cat. No.
5 12 V	2000	**833.95.703**
5 24 V	2000	**833.95.709**



> 5 A/18 AWG interconnecting lead
for 8 mm LED silicone strip light

Length mm	Cat. No.
50	**833.89.203**
500	**833.89.204**
2000	**833.89.205**

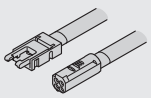
> End cap set with adhesive
for 8 mm LED silicone strip light

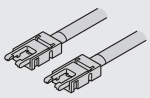
For sealing the shortened silicone sleeve; achieves degree of protection IP44

	Cat. No.
Set of 5, with 5 ml adhesive	**833.89.184**

Degree of protection IP20

If necessary, you can realise an IP20 version using leads, interconnecting leads and clip connectors for 8 mm monochrome LED strip lights, see Accessories page 11.





LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

LED strip lights

Multi-white, 8 mm

Häfele Loox5 LED 2064/2070/3044/3047/3049

LED 2064

LED 2070

LED 3044/3047/3049

Optimised light mixture
> Cool white and warm white LEDs in the smallest of spaces
> Optimal light mixture without flickering

> Dimmable:	Yes
> Material:	Plastic
> Finish/colour:	White
> Width:	8 mm
> Height:	1.3 mm
> Life time L80/B10:	>50,000 h
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Mounting:	Self-adhesive
> Supplied with:	1 roll

Illuminance value in lx applies to 1 m strip length:

2700 K	5000 K	120°	
1025 lx	1075 lx		250 mm
425 lx	445 lx		500 mm
230 lx	245 lx		750 mm
145 lx	150 lx		1000 mm

LED 2064/3044

2700 K	5000 K	120°	
1865 lx	2045 lx		250 mm
785 lx	865 lx		500 mm
430 lx	475 lx		750 mm
270 lx	295 lx		1000 mm

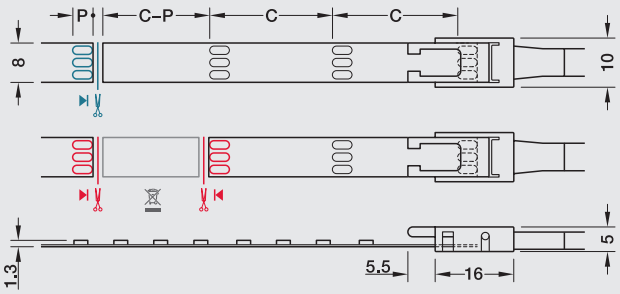
LED 2070/3047

2700 K	5000 K	120°	
2780 lx	2800 lx		250 mm
1180 lx	1200 lx		500 mm
650 lx	660 lx		750 mm
405 lx	415 lx		1000 mm

LED 3049

Order reference:
Please order lead separately.

Aluminium profile recommended from 9.6 W/m, see page 20



Cut LED strip light to length
(one contact side remains on the remainder piece; reusable)
Connect LED strip lights
(two contact sides required)

C = section length
P = length of contact surface

5 12 V Loox5 12 V driver see page 121

5 24 V Loox5 24 V driver see page 122

Colour control only via 6-way distributor Häfele Connect Mesh with multi-white adapter and remote control or smartphone. Please order separately, see chapter Networking, page 96.

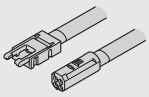
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

Häfele Loox5 LED 2064 / 2070 / 3044 / 3047 / 3049

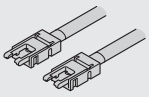
Voltage	Quantity	Colour temperature	Wattage	Luminous flux	Luminous efficacy	Colour rendering index CRI		Weight. energy consumpt. per m in kWh/ 1000 h	Section length C	Length of contact surface P	Max. strip length (visual)	Available length	
V	LEDs/m	K	W/m	lm/m	lm/W	R_a	R_9		mm	mm	m	5 m	50 m
5 12 V	**Häfele Loox5 LED 2064**												
	2 x 60	2700 5000	4.8	425 465	89 97	>90	>50	5.28	50	4	4.5	**833.74.352**	**833.74.353**
	Häfele Loox5 LED 2070												
	2 x 120	2700 5000	9.6	825 930	86 97	>90	>50	10.56	25	3.5	3.5	**833.74.370**	**833.74.371**
5 24 V	**Häfele Loox5 LED 3044**												
	2 x 120	2700 5000	4.8	425 465	89 97	>90	>50	5.28	50	3.5	8.5	**833.76.332**	**833.76.333**
	Häfele Loox5 LED 3047												
	2 x 120	2700 5000	9.6	825 930	86 97	>90	>50	10.56	50	3.5	6.5	**833.76.350**	**833.76.351**
	Häfele Loox5 LED 3049												
	2 x 120	2700 5000	14.4	1230 1370	85 95	>90	>50	15.84	50	3.5	5.0	**833.76.360**	**833.76.361**

Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.
Maximum wattage-dependent strip length on the driver, see page 130.



> 3.5 A/20 AWG lead
for 8 mm multi-white LED strip light

Voltage	Length mm	Cat. No.
5 12 V	2000	**833.95.702**
5 24 V	2000	**833.95.708**



> 3.5 A/20 AWG interconnecting lead
for 8 mm multi-white LED strip light

Length mm	Cat. No.
50	**833.89.197**
500	**833.89.198**
2000	**833.89.199**

> 3.5 A clip connector
for 8 mm multi-white LED strip light

	Cat. No.
Clip connector	**833.89.208**

> Corner connector 90° rigid, 3.5 A
for left or right for 8 mm multi-white LED strip light

	Cat. No.
Corner connector rigid	**833.89.188**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

LED strip lights

RGB, 10 mm

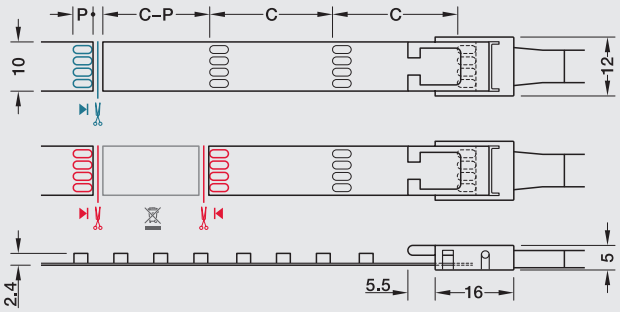
Häfele Loox5 LED 2080/3080

LED 2080/3080

> Dimmable:	Yes
> Material:	Plastic
> Finish/colour:	White
> Width:	10 mm
> Height:	2.4 mm
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Mounting:	Self-adhesive
> Supplied with:	1 roll

Order reference:
Please order lead separately.

Aluminium profile recommended from 9.6 W/m, see page 20



Cut LED strip light to length
(one contact side remains on the remainder piece; reusable)
Connect LED strip lights
(two contact sides required)

C = section length
P = length of contact surface

5 12 V Loox5 12 V driver see page 121

5 24 V Loox5 24 V driver see page 122

Colour control only via 6-way distributor Häfele Connect Mesh with RGB adapter and remote control or smartphone.
Please order separately, see chapter Networking, page 96.

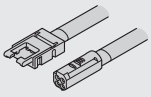
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

Häfele Loox5 LED 2080/3080

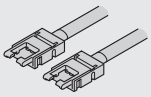
Voltage V	Number of LEDs/m	Colour temperature K	Wattage W/m	Luminous flux lm/m	Luminous efficacy lm/W	Weight. energy consumpt. per m in kWh/1000 h	Section length C mm	Length of contact surface P mm	Max. strip length (visual) m	Delivery length 5 m
5 12 V	**Häfele Loox5 LED 2080**									
	120	RGB	9.6	530	51	10.78	25	3.8	3.0	**833.74.380**
5 24 V	**Häfele Loox5 LED 3080**									
	120	RGB	9.6	530	51	10.78	50	3.8	6.5	**833.76.386**

Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.
Maximum wattage-dependent strip length on the driver, see page 130.



> 3.5 A/20 AWG lead
for LED RGB strip light, 10 mm

Voltage	Length mm	Cat. No.
5 12 V	2000	**833.95.704**
5 24 V	2000	**833.95.710**



> 3.5 A/20 AWG interconnecting lead
for LED RGB strip light, 10 mm

Length mm	Cat. No.
50	**833.89.200**
500	**833.89.201**
2000	**833.89.202**

> 3.5 A clip connector
for LED RGB strip light, 10 mm

	Cat. No.
Clip connector	**833.89.209**

> Corner connector, 90° rigid, 3.5 A
for left or right for LED RGB strip light, 10 mm

	Cat. No.
Corner connector rigid	**833.89.189**

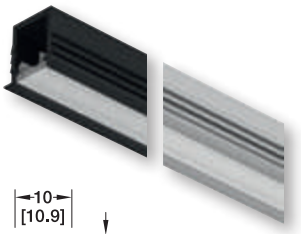
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

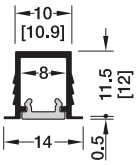
Profiles for recess mounting

Aluminium

Häfele Loox5 profile 1104/1103

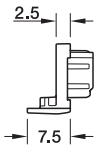
Häfele Loox5 profile 1104



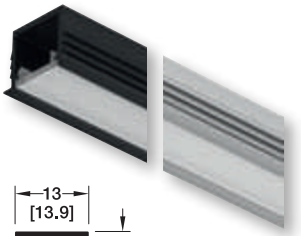


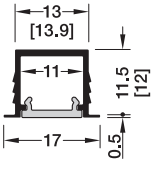
[Routing dimensions]

End caps



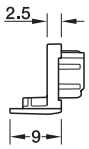
Häfele Loox5 profile 1103





[Routing dimensions]

End caps



> Material:	Profile: Aluminium, diffuser: Plastic
> Finish/colour:	Profile: Anodized, diffuser: White opal, transmittance 70–80 %
> Length:	3000 mm
> Diffuser width:	Profile 1104: 8 mm Profile 1103: 11 mm
> Supplied with:	1 aluminium profile 1 diffuser white opal

Colour	Profile 1104	Profile 1103
Black	**833.95.725**	**833.95.723**
Silver coloured	**833.95.724**	**833.95.722**

Note
Profile 1104 usable for LED strip lights up to max. 5 mm width.

End caps for Häfele Loox5 profile 1104, 1103

> Material:	Plastic
> Version:	With cable outlet
> Packing::	10 pieces

Colour	End cap 1104	End cap 1103
Black	**833.95.769**	**833.95.767**
Silver coloured	**833.95.768**	**833.95.766**

Diffusers
The diffuser creates a uniform light.
The LED points are invisible from 120 LEDs/m.
If required, please order alternative diffusers in black or transparent separately.

Diffusers see page 35

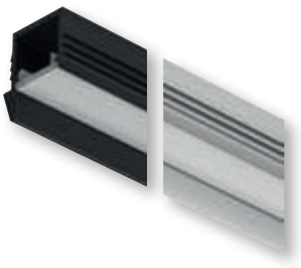
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

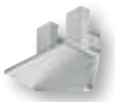
Profiles for recess mounting

Aluminium

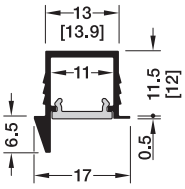
Häfele Loox5 profile 1105, asymmetric light distribution

Häfele Loox5 profile 1105

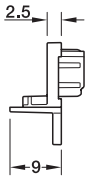




End caps



[Routing dimensions]



> Material:	Profile: Aluminium, diffuser: Plastic
> Finish/colour:	Profile: Anodized, diffuser: White opal, transmittance 70–80 %
> Length:	3000 mm
> Diffuser width:	11 mm
> Supplied with:	1 aluminium profile 1 diffuser white opal

Colour	Cat. No.
Black	**833.95.727**
Silver coloured	**833.95.726**

End caps for Häfele Loox5 profile 1105

> Material:	Plastic
> Version:	With cable outlet
> Packing::	10 pieces

Colour	Cat. No.
Black	**833.95.771**
Silver coloured	**833.95.770**

Anti-glare shield
Asymmetric light distribution allows for a glare-free light source.

Diffusers
The diffuser creates a uniform light.
The LED points are invisible from 120 LEDs/m.
If required, please order alternative diffusers in black or transparent separately.

Diffusers see page 35

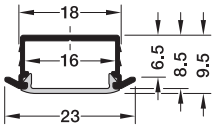
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles for recess mounting

Aluminium

Häfele Loox profile for recess mounting

End cap



> Material: Aluminium
> Finish/colour: Silver coloured anodized
> Length x width: 2500 x 18 mm
> Height: 8.5 mm
> Supplied with: 1 profile, 1 diffuser

Cover	Cat. No.
Milky	**833.72.844**
Frosted	**833.72.845**

LED points are always visible when this profile is used

End cap with cable outlet
for 833.72.844 and 833.72.845

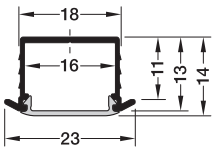
> Material: Plastic, silver coloured
> Supplied with: 2 pieces

	Cat. No.
End cap for 833.72.844 and 833.72.845	**833.72.855**

Switch for aluminium profiles 16 mm see page 90
Diffusers see page 35

Häfele Loox profile for recess mounting

End cap



> Material: Aluminium
> Finish/colour: Silver coloured anodized
> Length x width: 2500 x 18 mm
> Height: 13 mm
> Supplied with: 1 profile, 1 diffuser

Cover	Cat. No.
Milky	**833.72.846**
Frosted	**833.72.847**

End cap with cable outlet
for 833.72.846 and 833.72.847

> Material: Plastic, silver coloured
> Supplied with: 2 pieces

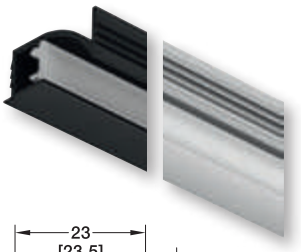
	Cat. No.
End cap for 833.72.846 and 833.72.847	**833.72.854**

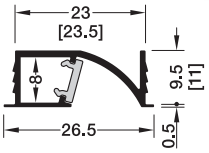
Switches for aluminium profiles 16 mm see page 90
Diffusers see page 35

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Häfele Loox5 profile 1107 / 1106, asymmetric light distribution

Häfele Loox5 profile 1107





[Routing dimensions]

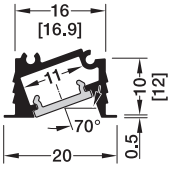
> Material:	Profile: Aluminium, diffuser: Plastic
> Finish/colour:	Profile: Anodized, diffuser: White opal, transmittance 70–80 %
> Length:	3000 mm
> Diffuser width:	Profile 1107: 8 mm, profile 1106: 11 mm
> Supplied with:	1 aluminium profile 1 diffuser white opal

Colour	Profile 1107	Profile 1106
Black	**833.95.731**	**833.95.729**
Silver coloured	**833.95.730**	**833.95.728**

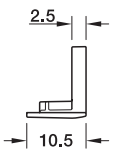
Profile 1107 usable for LED strip lights up to max. 5 mm width.
Glare-free light, ideal for vertical installation in wardrobes.

Häfele Loox5 profile 1106

End caps



[Routing dimensions]



End caps for Häfele Loox5 profile 1106

> Material:	Plastic
> Version:	With cable outlet
> Mounting:	For screw fixing
> Packing::	10 pieces

Colour	Cat. No.
Black	**833.95.773**
Silver coloured	**833.95.772**

Diffusers
The diffuser creates a uniform light.
If required, please order alternative diffusers in black or transparent (only for width 11 mm) separately.

Diffusers see page 35

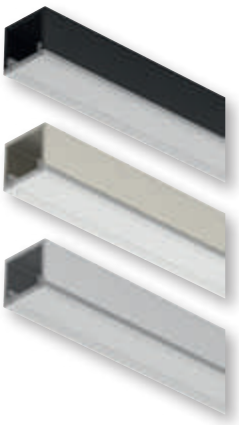
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

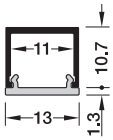
Profiles for surface mounting

Aluminium

Häfele Loox5 profile 2101 / 2102

Häfele Loox5 profile 2101





Surface mounted diffuser

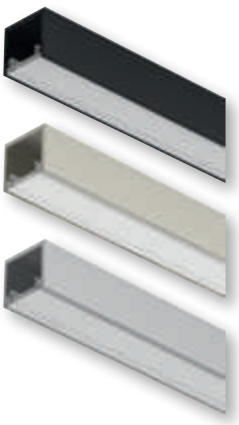
> Material: Profile: Aluminium, diffuser: Plastic
> Finish/colour: Profile: Anodized, diffuser: White opal, transmittance 70–80 %
> Length: 3000 mm
> Diffuser width: Profile 2101: 13 mm, Profile 2102: 11 mm
> Supplied with: 1 aluminium profile, 1 diffuser white opal

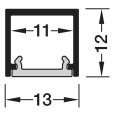
Colour	Profile 2101	Profile 2102
Black	**833.95.733**	**833.95.735**
Brushed stainless steel coloured	**833.95.762**	**833.95.763**
Silver coloured	**833.95.732**	**833.95.734**

Diffusers
The diffuser creates a uniform light.
The LED points are invisible from 120 LEDs/m.
If required, please order alternative diffusers in black or transparent (only for width 11 mm) separately.

Diffusers see page 35

Häfele Loox5 profile 2102



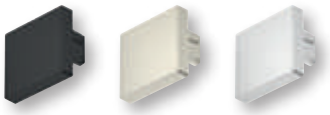


Flush recess mounted diffuser

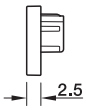
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Häfele Loox5 profile 2101 / 2102

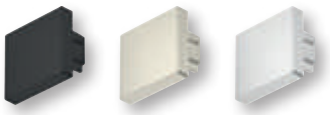
Häfele Loox5 profile 2101



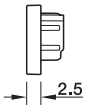
End caps



Häfele Loox5 profile 2102



End caps

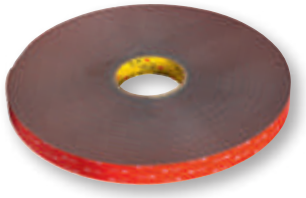


End caps for Häfele Loox5 profile 2101 / 2102

> Material: Plastic
> Version: With drill mark for cable outlet
> Packing:: 10 pieces

Colour	End cap 2101	End cap 2102
Black	**833.95.775**	**833.95.778**
Brushed stainless steel coloured	**833.95.776**	**833.95.779**
Silver coloured	**833.95.774**	**833.95.777**

Adhesive tape for Häfele Loox5 profile 2101 / 2102



> Area of application: For fixing aluminium on wood, metals, or plastics
> Version: Double-sided, high instant adhesion, high temperature resistance
> Length: 33 m
> Width: 10 mm
> Thickness: 0.6 mm

	Cat. No.
Adhesive tape	**833.89.266**

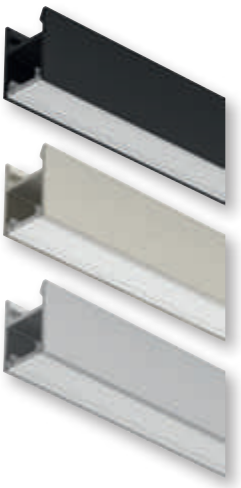
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

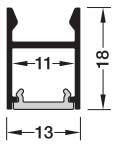
Profiles for surface mounting

Aluminium

Häfele Loox5 profile 2103/2104, with concealed fixing

Häfele Loox5 profile 2103





- > Material: Profile: Aluminium, diffuser: Plastic
- > Finish/colour: Profile: Anodized, diffuser: White opal, transmittance 70–80 %
- > Length: 3000 mm
- > Diffuser width: 11 mm
- > Supplied with: 1 aluminium profile, 1 diffuser white opal

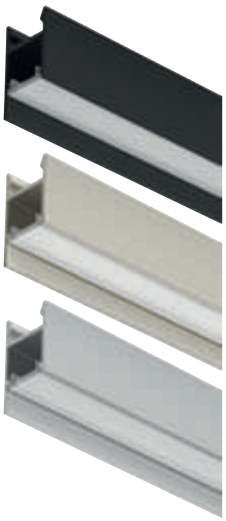
Colour	Profile 2103	Profile 2104
Black	**833.95.737**	**833.95.739**
Brushed stainless steel coloured	**833.95.764**	**833.95.765**
Silver coloured	**833.95.736**	**833.95.738**

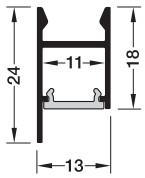
Order reference
Please order (mandatory) mounting bracket separately.

Diffusers
The diffuser creates a uniform light.
The LED points are invisible from 120 LEDs/m.
If required, please order alternative diffusers in black or transparent separately.

Diffusers see page 35

Häfele Loox5 profile 2104, with asymmetric light distribution





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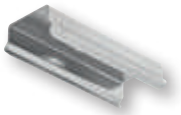
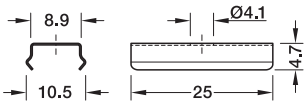
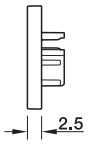
Häfele Loox5 profile 2103/2104, with concealed fixing





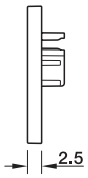
Mounting bracket
for concealed fixing

Häfele Loox5 profile 2103



End caps

Häfele Loox5 profile 2104



End caps

Mounting bracket

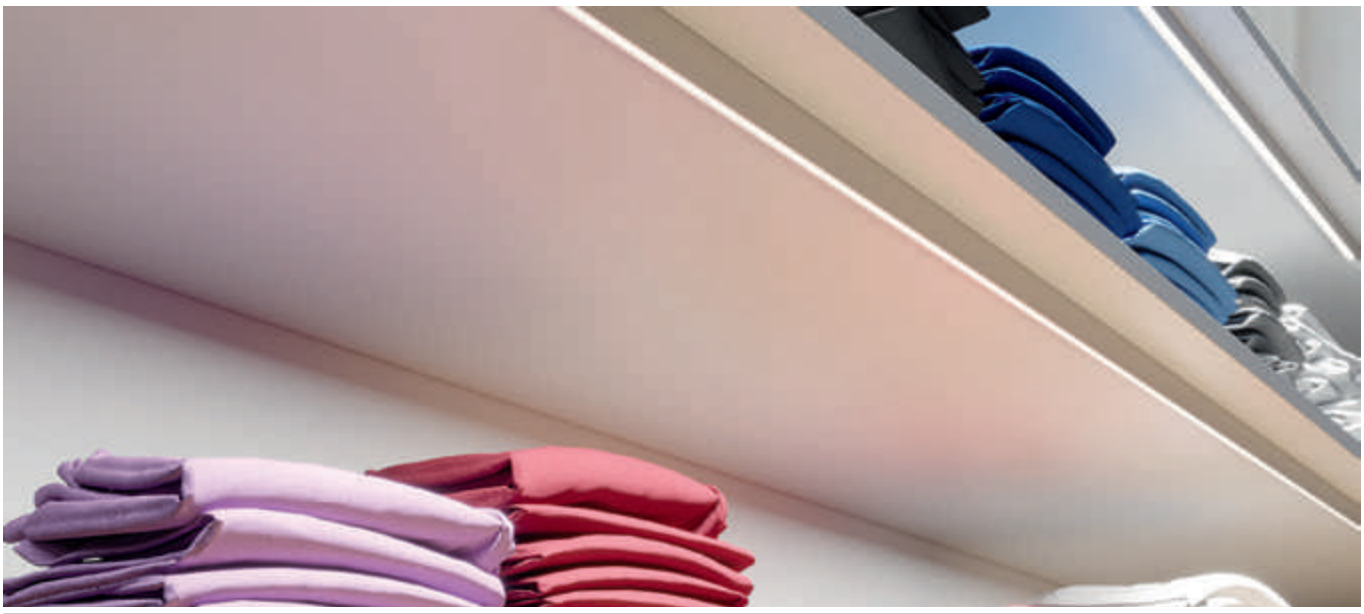
> Material: Stainless steel
> Mounting: For screw fixing
> Packing:: 10 pieces

	Cat. No.
Mounting bracket	**833.95.761**

End caps for Häfele Loox5 profile 2103/2104

> Material: Plastic
> Version: With drill mark for cable outlet
> Packing:: 10 pieces

Colour	End cap 2103	End cap 2104
Black	**833.95.781**	**833.95.784**
Brushed stainless steel coloured	**833.95.782**	**833.95.785**
Silver coloured	**833.95.780**	**833.95.783**



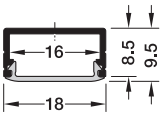
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Profiles for surface mounting

Aluminium

Häfele Loox profile for recess mounting

End cap



> Material: Aluminium
> Finish/colour: Silver coloured anodized
> Length x width x height: 2500 x 18 mm x 9.5 mm
> Supplied with: 1 profile, 1 diffuser

Cover	Cat. No.
Milky	**833.72.840**
Frosted	**833.72.843**

Note
LED points are always visible when this profile is used.
Permanent operation (≥8 hours/day) only with LED strip lights up to 9.6 W/m.

Order reference
Please order retaining clip (optional) separately

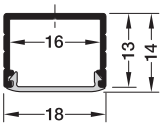
End cap

> Material: Plastic, silver coloured
> Supplied with: 2 pieces

	Cat. No.
End cap for 833.72.840 and 833.72.843	**833.72.852**

Switch for aluminium profiles 16 mm see page 90
Diffusers see page 35

End cap



> Material: Aluminium
> Finish/colour: Silver coloured anodized
> Length x width x height: 2500 x 18 mm x 14 mm
> Supplied with: 1 profile, 1 diffuser

Cover	Cat. No.
Milky	**833.72.841**
Frosted	**833.72.842**

Order reference
Please order retaining clip (optional) separately

End cap

> Material: Plastic, silver coloured
> Supplied with: 2 pieces

	Cat. No.
End cap for 833.72.841 and 833.72.842	**833.72.853**

Retaining clip

> Material: Stainless steel, silver coloured
> Supplied with: 2 pieces

Version	Cat. No.
Retaining clip	**833.74.832**
Retaining clip 40°	**833.74.833**

Switch for aluminium profiles 16 mm see page 90
Diffusers see page 35

Retaining clip

Retaining clip 40°

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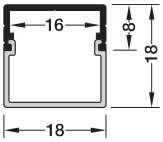
Profiles for surface mounting

Aluminium

Häfele Loox profile for recess mounting, with attached diffuser housing



- > Material: Profile: Aluminium; Diffuser housing: Plastic
- > Finish/colour: Profile: Silver coloured anodized; Diffuser housing: Milky
- > Length x width: 2500 x 18 mm
- > Height: 18 mm
- > Supplied with: 1 aluminium profile; 1 diffuser housing milky

	Cat. No.
Profile for recess mounting, with attached diffuser housing	**833.74.813**

End cap

Retaining clip

Retaining clip 40°

End cap

- > Material: Plastic, silver coloured
- > Version: With cable outlet
- > Supplied with: 2 pieces

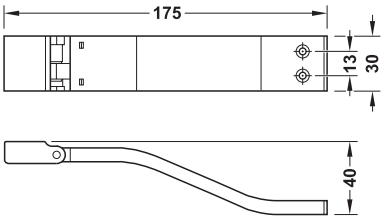
	Cat. No.
End cap	**833.74.823**

Retaining clip

- > Material: Stainless steel, silver coloured
- > Application: For mounting as downlight
- > Supplied with: 2 pieces

Version	Cat. No.
Retaining clip	**833.74.832**
Retaining clip 40°	**833.74.833**

Mounting arm



Mounting arm for profile 833.74.813

- > Material: Aluminium, silver coloured anodized
- > Version: Can be swivelled 30° horizontally
- > Length x width: 175 x 30 mm
- > Height: 40 mm
- > Application: For surface mounting
- > Supplied with: 1 pair of mounting arms, 2 end caps

	Cat. No.
Mounting arm for profile 833.74.813	**833.74.834**

Max. distance of retaining clips 500 mm.
The mounting arms make it possible to have customised, perfectly fitting surface mounted cabinet lights.

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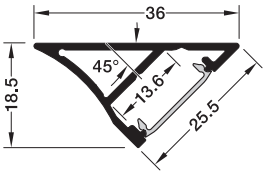
Profiles for surface mounting

Aluminium

Häfele Loox profile for recess mounting, asymmetric light distribution



End caps

> Material: Aluminium
> Finish/colour: Profile: Silver coloured anodized
Diffuser: Milky
> Version: Indirect light output
> Length x width: 2500 x 36 mm
> Height: 18.4 mm
> Diffuser width: 16 mm
> Supplied with: 1 aluminium profile
1 diffuser milky

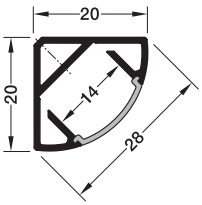
	Cat. No.
Profile for recess mounting, angled	**833.74.898**

End cap

> Material: Plastic, silver coloured
> Supplied with: 2 pieces

	Cat. No.
End cap	**833.74.899**

Häfele Loox corner profile



End cap

Holder

Mounting plate

> Material: Aluminium
> Finish/colour: Profile: Silver coloured anodized
Diffuser: Milky
> Cover: Milky
> Length x width: 2500 x 28 mm
> Height: 20 mm
> Supplied with: 1 aluminium profile
1 diffuser milky

	Cat. No.
Corner profile	**833.74.812**

> Material: End cap and holder:
Plastic, silver coloured
Mounting plate: Stainless steel
> Supplied with: 2 pieces

	Cat. No.
End cap with cable outlet	**833.74.899**
Holder	**833.74.825**
Mounting plate	**833.74.826**

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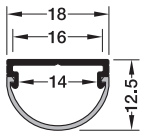
Profiles for surface mounting

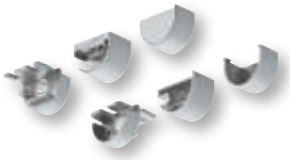
Aluminium

Häfele Loox drawer profile

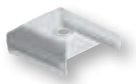


> Material: Aluminium
> Finish/colour: Profile: Silver coloured anodized
Diffuser: Milky
> Length x width: 2500 x 18 mm
> Height: 12.5 mm
> Supplied with: 1 aluminium profile
1 diffuser milky

	Cat. No.
Drawer profile	**833.74.835**

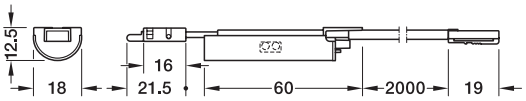


End caps

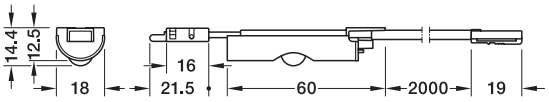


Retaining clip

Door sensor



Motion detector



End cap set

> Material: ABS plastic, silver coloured
> Supplied with: 5 sets of end caps,
fixing screws

	Cat. No.
End cap set	**833.74.877**

Retaining clip

> Material: Stainless steel, silver coloured
> Supplied with: 2 pieces

	Cat. No.
Retaining clip	**833.74.893**

Loox5 door sensor for Häfele Loox drawer profile

Voltage	Switching capacity	Cat. No.
5 12 V	60 W	**833.89.251**
5 24 V	90 W	**833.89.253**

Loox5 motion detector for Häfele Loox drawer profile

> Delay time: 30 sec.
> Sensor range: 0–3000 mm

Voltage	Switching capacity	Cat. No.
5 12 V	60 W	**833.89.252**
5 24 V	90 W	**833.89.254**

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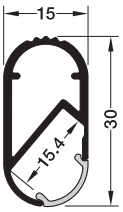
Profiles

Aluminium

Häfele Loox wardrobe rail, asymmetric light distribution



Rail end support, side panel

Wardrobe rail, rail centre support

> Material: Aluminium
> Finish/colour: Profile: Silver coloured anodized
Diffuser: Milky
> Length x width: 2500 x 15 mm
> Height: 30 mm
> Supplied with: 1 aluminium profile
1 diffuser milky

	Cat. No.
Häfele Loox wardrobe rail	**833.72.790**

LED points are always visible when this profile is used.

Rail end support, side panel

> Material: Zinc alloy
> Mounting: For screw fixing to side panel
> Supplied with: 1 piece

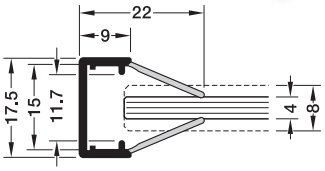
	Cat. No.
Rail end support, side panel	**803.33.757**

Wardrobe rail, rail centre support

> Material: Zinc alloy, chrome plated
> Mounting: For screw fixing
> Supplied with: 1 piece

	Cat. No.
Wardrobe rail, rail centre support	**802.07.200**

Häfele Loox glass edge profile



Effect of the glass edge on the light
> Glass edge with satin finish = even light line
> Clear glass edge = point light

> Material: Plastic
> Finish/colour: Profile: Silver coloured
Diffusers: Milky
> Length x width: 2000 x 17.5 mm
> Height: 22 mm
> Application: For screw fixing
> Supplied with: 1 aluminium profile
2 diffusers milky

	Cat. No.
Glass edge profile	**833.74.733**

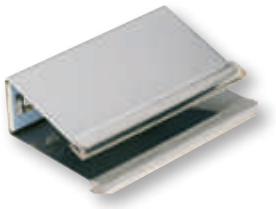
For manufacturing customised glass edge lighting for glass thicknesses of 4–8 mm.
Without load bearing function.
Only for LED strip lights with max. 9.6 W/m.
Note the dimensions of the clip connector.

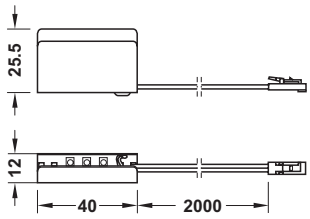
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

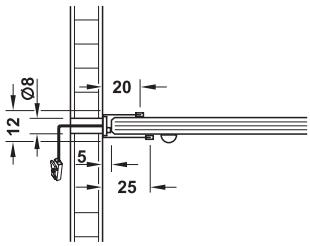
Glass edge light

Monochrome

Häfele Loox LED 2019







Effect of the glass edge on the light
> Glass edge with satin finish = even light line
> Clear glass edge = point light

> Dimmable:	Yes
> Material:	Stainless steel
> Length x width:	40 X 25.5 mm
> Height:	12 mm
> Degree of protection:	IP20
> Number of LEDs:	3
> Mounting:	Is pushed onto the glass shelf from the rear
> Glass thickness:	6–12 mm
> Supplied with:	1 light with 2 m lead

Without load bearing function

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Glass edge profile for individual lengths up to 2 m see page 32

Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Finish/colour	Cat. No.
4000	0.2	15	75	88	0.22	Bright	**833.74.130**
6000	0.2	19	95	84	0.22	Bright	**833.74.120**

IP20

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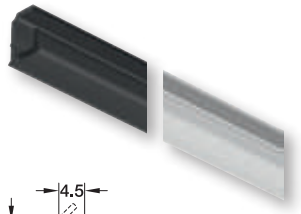
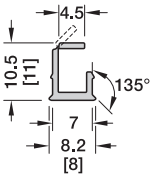
Profiles for recess mounting

Plastic

Häfele Loox5 profile 1102/1101

Häfele Loox5 profile 1102





[Routing dimensions]

- > Material: Plastic
- > Length: 3000 mm
- > Supplied with: 1 plastic profile

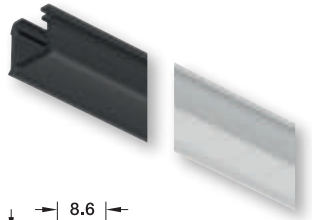
Colour	Transmittance	Profile 1102	Profile 1101
Black	~20 %	**833.95.741**	**833.72.899**
white opal	70-80 %	**833.95.740**	**833.72.898**

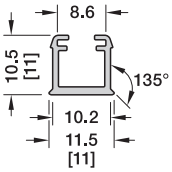
Note
Profil 1102 und 1101 für LED-Bänder bis max. 9,6 W/m verwendbar.

Profil 1102 für LED-Bänder bis max. 5 mm Breite verwendbar.
Profil 1101 nur für LED-Bänder mit exakt 8 mm Breite verwendbar.

Durch die Streuscheibe entsteht ein gleichmäßiges Licht.
Die LED-Punkte sind bei der weißen Version ab 120 LEDs/m nicht sichtbar.

Häfele Loox5 profile 1101





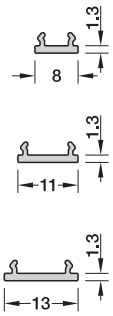
[Routing dimensions]

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Diffusers, cooling strip

Diffusers Häfele Loox5 for profiles for recess mounting 1103-1107 as well as for profiles for recess mounting 2101-2104

Dimensions



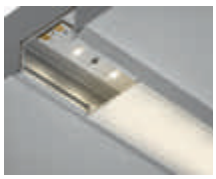
> Material: Plastic
> Length: 3000 mm
> Supplied with: 1 diffuser

Width mm	Transmittance		
	transparent, ~90 %	white opal, 70–80 %	black, ~20 %
8	–	**833.95.754**	**833.95.758**
11	**833.95.757**	**833.95.755**	**833.95.759**
13	–	**833.95.756**	**833.95.760**

The white diffuser creates a uniform light.
The LED points are invisible from 120 LEDs/m. When using the black diffuser, LED points may be visible.
LED points are always visible when the transparent diffuser is used.

Diffusers Häfele Loox for profiles with 16 mm internal dimension

Frosted



Milky

Protruding

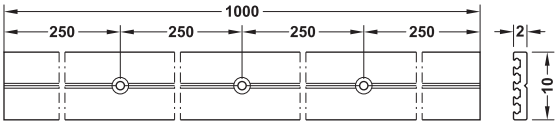
Flush

> Material: Plastic
> Length: 2500 mm
> Supplied with: 1 diffuser

Cover	Cat. No.
Version: Protruding, for push fitting	
Frosted	**833.74.780**
Milky	**833.74.781**
Version: Flush, for sliding in	
Frosted	**833.72.858**
Milky	**833.72.859**

Simple replacement of existing diffusers in order to switch from frosted to milky, e.g.. Cannot be used for the following aluminium profiles: 833.74.812, 833.74.813, 833.74.814 or for aluminium profiles with curved diffusers.

Häfele Loox cooling strip



> Material: Aluminium
> Length x width: 1000 x 10 mm
> Height: 2 mm
> Mounting: For screw fixing, drill holes at 250 mm, 500 mm, and 750 mm
> Supplied with: 1 profile

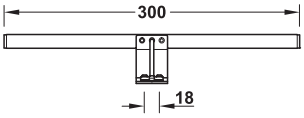
	Cat. No.
Cooling strip	**833.77.700**

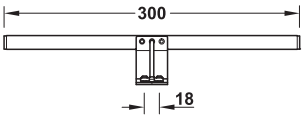
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

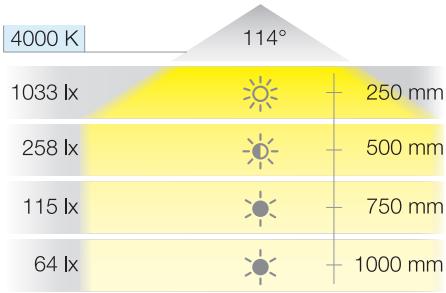
Surface mounted lights

Monochrome, length 300 mm

Häfele Loox LED 2032







> Dimmable:	Yes
> Material:	Aluminium
> Length x width:	300 x 180 mm
> Height:	50 mm
> Energy efficiency class:	A+
> Degree of protection:	IP44
> Number of LEDs:	27
> Mounting:	For screw fixing
> Supplied with:	1 light with 2 m lead, including fixing materials

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Finish/colour	Cat. No.
4000	3	200	67	84	3.30	Silver coloured	**833.74.070**
4000	3	200	67	84	3.30	Chrome plated	**833.74.080**

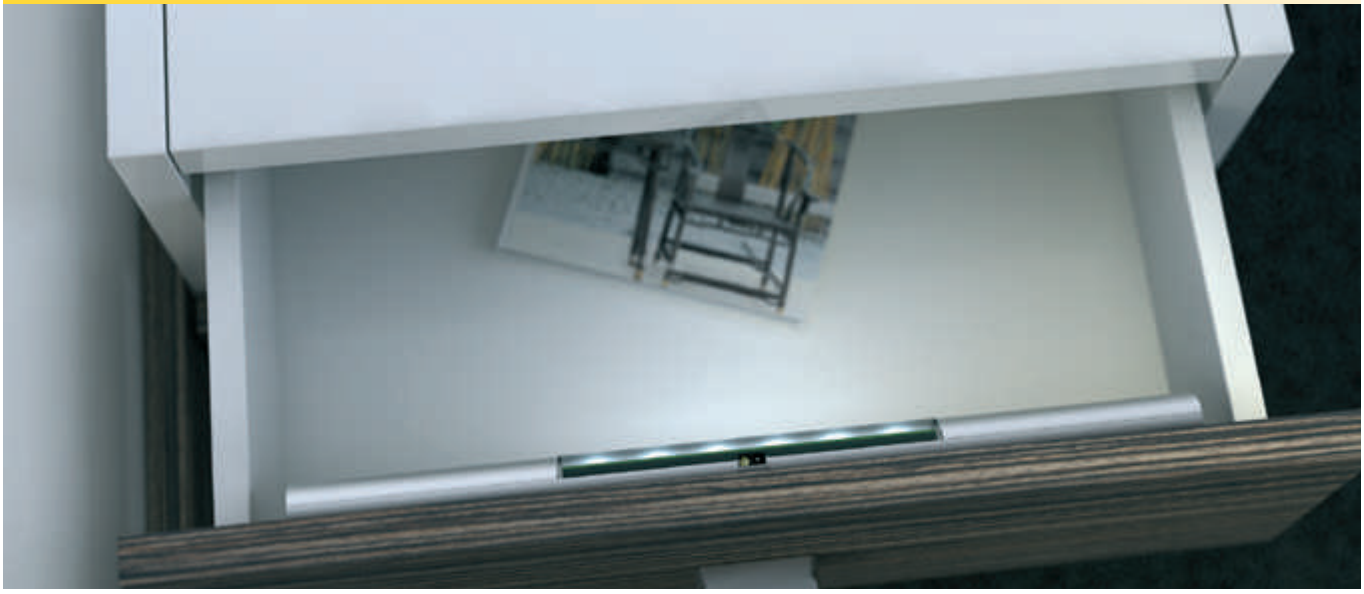
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

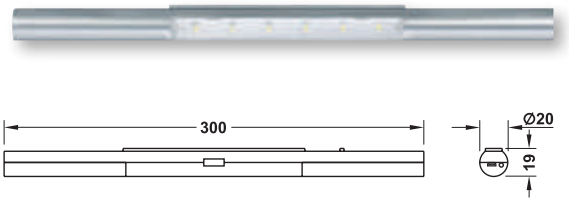
IP44

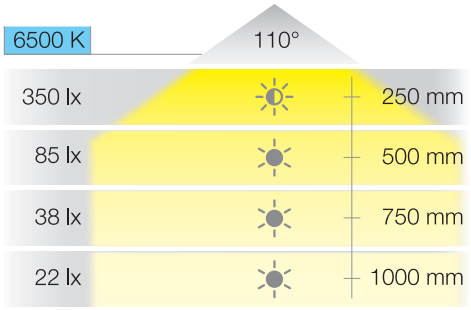
Drawer lights

Battery-operated light, monochrome length 300 mm

Häfele Loox LED 9005







> Version:	With automatic shut-off
> Material:	Plastic
> Diameter:	20 mm
> Length:	300 mm
> Degree of protection:	IP20
> Number of LEDs:	6
> Operating time:	6 hrs.
> Charging time:	3–4 hrs.
> 2 operating modes:	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: Manual on/off switching at the sensor
> Mounting:	The light is pushed onto the mounting plate
> Supplied with:	1 light with mounting plate for screw fixing and 0.8 m micro-USB cable

The light can be recharged using the supplied micro-USB cable

Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Finish/colour	Cat. No.
6500	0.6	51	85	82	Silver colour lacquered	**833.87.020**

IP20

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess/surface mounted downlights

Modular monochrome, drill hole Ø: 58 mm

Häfele Loox LED 2025, Loox5 2092/3092

LED 2092 and LED 3092, equipped with high-quality Samsung LEDs

> Dimmable:	Yes
> Material:	Aluminium
> Energy efficiency class:	A+
> Degree of protection:	IP44 as recess mounted downlight; IP20 as surface mounted downlight
> Mounting:	For mounting in drilled hole, for clamp fixing or for screw fixing
> Drill hole Ø:	58 mm
> Supplied with:	1 light module

2700 K	3000 K	4000 K	5000 K	80°	
2600 lx	2650 lx	2700 lx	2800 lx		250 mm
730 lx	750 lx	780 lx	800 lx		500 mm
320 lx	350 lx	345 lx	350 lx		750 mm
180 lx	185 lx	185 lx	190 lx		1000 mm

LED 2025

2700 K	3000 K	4000 K	5000 K	80°	
1870 lx	1990 lx	2025 lx	2135 lx		250 mm
500 lx	540 lx	540 lx	580 lx		500 mm
210 lx	230 lx	235 lx	240 lx		750 mm
120 lx	125 lx	130 lx	135 lx		1000 mm

LED 2092/3092

Note

The IP44 degree of protection is reduced to IP20 when mounting as downlight or recess mounting with through hole.

Order reference

Please order lead and housing separately.

5 12 V Loox5 12 V driver see page 121

5 24 V Loox5 24 V driver see page 122

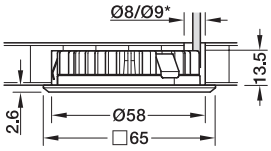
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20
IP44

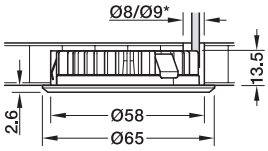
Häfele Loox LED 2025, Loox5 2092/3092

Voltage V	Quantity LEDs	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	R_9	Weighted energy consumption kWh/1000 h	Cat. No.
5 12 V	**Häfele Loox LED 2025** (compatible with Loox5 lead with snap-in connector)								
	1	2700	3.8	270	71	>90	–	4.18	**833.72.350**
		3000	3.8	300	78	>90	–	4.18	**833.72.351**
		4000	3.8	306	80	>90	–	4.18	**833.72.352**
		5000	3.8	345	90	>83	–	4.18	**833.72.323**
	Häfele Loox5 LED 2092								
	6	2700	3.4	220	65	>90	>55	3.74	**833.72.474**
		3000	3.4	240	71	>90	>55	3.74	**833.72.475**
		4000	3.4	250	74	>90	>55	3.74	**833.72.476**
		5000	3.4	260	76	>90	>55	3.74	**833.72.477**
5 24 V	**Häfele Loox5 LED 3092**								
	6	2700	3.4	220	65	>90	>55	3.74	**833.75.174**
		3000	3.4	240	71	>90	>55	3.74	**833.75.175**
		4000	3.4	250	74	>90	>55	3.74	**833.75.176**
		5000	3.4	260	76	>90	>55	3.74	**833.75.177**

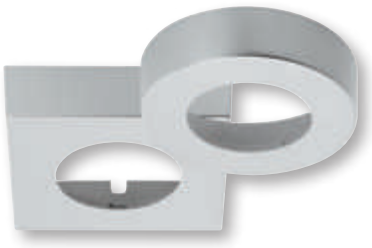
Recess mounted housing



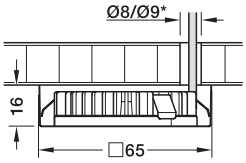
Recess mounting, square



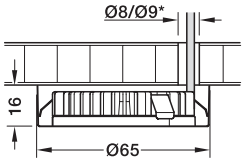
Recess mounting, round



Downlight housing



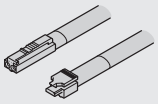
Mounting as downlight, square



Mounting as downlight, round

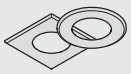
Housings are suitable for monochrome lights and for multi-white lights.

* valid for multi-white plugs.



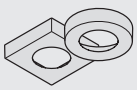
> Lead, 1.5 A/24 AWG, with snap-in connector

Voltage	Length	Cat. No.
5 12 V	1000 mm	**833.95.789**
	2000 mm	**833.95.788**
5 24 V	2000 mm	**833.95.791**



> Housing for recess mounting, plastic

Colour	Round	Square
Black	**833.72.168**	**833.72.172**
Anthracite	**833.72.380**	**833.72.383**
Brown	**833.72.381**	**833.72.384**
Matt nickel plated	**833.72.170**	**833.72.174**
Stainless steel coloured	**833.72.382**	**833.72.385**
Silver coloured	**833.72.126**	**833.72.127**
White, RAL 9003	**833.72.171**	**833.72.175**



> Downlight housing, plastic

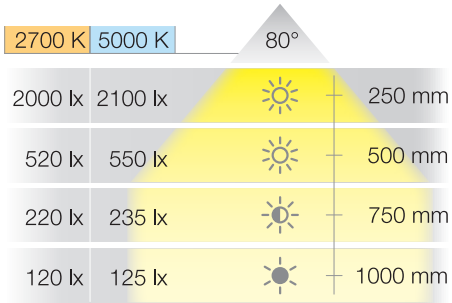
Colour	Round	Square
Black	**833.72.160**	**833.72.164**
Anthracite	**833.72.193**	**833.72.195**
Brown	**833.72.192**	**833.72.196**
Matt nickel plated	**833.72.162**	**833.72.166**
Stainless steel coloured	**833.72.194**	**833.72.197**
Silver coloured	**833.72.124**	**833.72.125**
White, RAL 9003	**833.72.163**	**833.72.167**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess/surface mounted downlights

Modular multi-white, drill hole Ø: 58 mm

Häfele Loox5 LED 2091 / 3091



Equipped with high-quality Samsung LEDs

> Dimmable:	Yes
> Material:	Aluminium
> Energy efficiency class:	A+
> Degree of protection:	IP44 as recess mounted downlight; IP20 as surface mounted downlight
> Mounting:	For mounting in drilled hole, for clamp fixing or for screw fixing
> Drill hole Ø:	58 mm
> Supplied with:	1 light module

Note
The IP44 degree of protection is reduced to IP20 when mounting as downlight or recess mounting with through hole.

Order reference
Please order lead and housing separately.

5 12 V Loox5 12 V driver see page 121

5 24 V Loox5 24 V driver see page 122

Colour control only via 6-way distributor Häfele Connect Mesh with multi-white adapter and remote control or smartphone. Please order separately, see chapter Networking, page 96

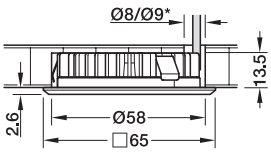
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20
IP44

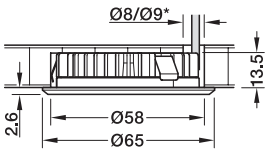
Häfele Loox5 LED 2091 / 3091

Voltage V	Quantity LEDs	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	CRI R_9	Weighted energy consumption kWh/1000 h	Cat. No.
5 12 V	**Häfele Loox5 LED 2091**								
	12	2700 5000	3.4	240 270	72 80	>90	>55	3.74	**833.72.478**
5 24 V	**Häfele Loox5 LED 3091**								
	12	2700 5000	3.4	240 270	72 80	>90	>55	3.74	**833.75.178**

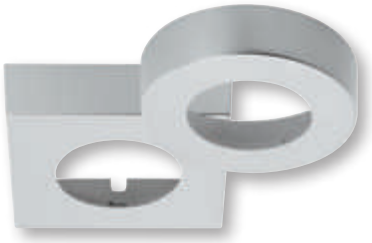
Recess mounted housing



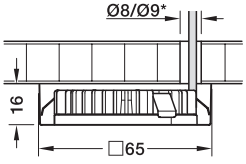
Recess mounting, square



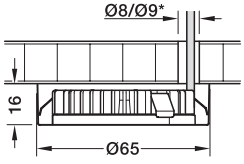
Recess mounting, round



Downlight housing



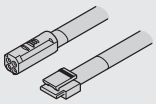
Mounting as downlight, square



Mounting as downlight, round

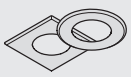
Housings are suitable for monochrome lights and for multi-white lights.

* valid for multi-white plugs.



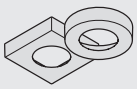
> Lead, 1.5 A/24 AWG, with snap-in connector for multi-white lights

Voltage	Length	Cat. No.
5 12 V	2000 mm	**833.95.787**
5 24 V	2000 mm	**833.95.790**



> Housing for recess mounting, plastic

Colour	Round	Square
Black	**833.72.168**	**833.72.172**
Anthracite	**833.72.380**	**833.72.383**
Brown	**833.72.381**	**833.72.384**
Matt nickel plated	**833.72.170**	**833.72.174**
Stainless steel coloured	**833.72.382**	**833.72.385**
Silver coloured	**833.72.126**	**833.72.127**
White, RAL 9003	**833.72.171**	**833.72.175**



> Downlight housing, plastic

Colour	Round	Square
Black	**833.72.160**	**833.72.164**
Anthracite	**833.72.193**	**833.72.195**
Brown	**833.72.192**	**833.72.196**
Matt nickel plated	**833.72.162**	**833.72.166**
Stainless steel coloured	**833.72.194**	**833.72.197**
Silver coloured	**833.72.124**	**833.72.125**
White, RAL 9003	**833.72.163**	**833.72.167**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess/surface mounted downlights

Modular monochrome, drill hole Ø: 35 mm

Häfele Loox5 LED 2040

> Dimmable:	Yes
> Material:	Aluminium
> Energy efficiency class:	A+
> Degree of protection:	IP44 as recess mounted downlight; IP20 as surface mounted downlight
> Mounting:	For mounting in drilled hole, for clamp fixing or for screw fixing
> Drill hole Ø:	35 mm
> Supplied with:	1 light module

2700 K	3000 K	4000 K	5000 K	90°	
530 lx	660 lx	720 lx	800 lx		250 mm
135 lx	180 lx	185 lx	220 lx		500 mm
55 lx	80 lx	85 lx	95 lx		750 mm
35 lx	40 lx	50 lx	55 lx		1000 mm

Note
The IP44 degree of protection is reduced to IP20 when mounting as downlight or recess mounting with through hole.

Order reference
Please order lead and housing separately.

5 12 V Loox5 12 V driver see page 121

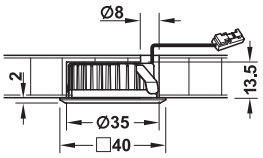
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20
IP44

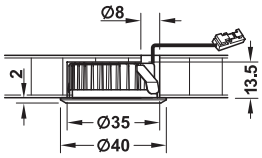
Häfele Loox5 LED 2040

Voltage V	Quantity LEDs	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
5 12 V	3	2700	1.5	75	50	90	1.65	**833.72.370**
		3000	1.5	88	59	90	1.65	**833.72.371**
		4000	1.5	96	64	90	1.65	**833.72.372**
		5000	1.5	110	73	83	1.65	**833.72.333**

Recess mounted housing

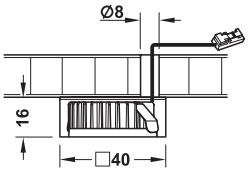


Recess mounting, square

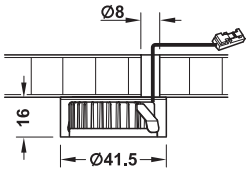


Recess mounting, round

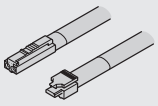
Downlight housing



Mounting as downlight, square



Mounting as downlight, round

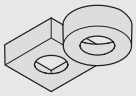


> Lead, 1.5 A/24 AWG, with snap-in connector

Voltage	Length	Cat. No.
5 12 V	1000 mm	**833.95.789**
	2000 mm	**833.95.788**

> Housing for recess mounting, plastic

Colour	Round	Square
Black	**833.72.184**	**833.72.188**
Matt nickel plated	**833.72.186**	**833.72.190**
Silver coloured	**833.72.145**	**833.72.146**
White, RAL 9003	**833.72.187**	**833.72.191**



> Downlight housing, plastic

Colour	Round	Square
Black	**833.72.176**	**833.72.180**
Matt nickel plated	**833.72.178**	**833.72.182**
Silver coloured	**833.72.143**	**833.72.144**
White, RAL 9003	**833.72.179**	**833.72.183**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess/surface mounted downlights

Monochrome, drill hole Ø: 26 mm

Häfele Loox5 LED 2090/3090

> Narrow beam angle for staging objects

Equipped with high-quality Samsung LEDs

> Dimmable:	Yes
> Material:	Aluminium
> Energy efficiency class:	A+
> Degree of protection:	IP44 as recess mounted downlight; IP20 as surface mounted downlight
> Mounting:	For mounting in drilled hole, for clamp fixing or for screw fixing
> Drill hole Ø:	26 mm
> Supplied with:	1 light module with 2 m lead

2700 K	3000 K	4000 K	5000 K	55°	
930 lx	990 lx	1005 lx	1005 lx		250 mm
230 lx	240 lx	250 lx	260 lx		500 mm
95 lx	100 lx	110 lx	115 lx		750 mm
50 lx	55 lx	60 lx	60 lx		1000 mm

LED 2090

2700 K	3000 K	4000 K	5000 K	55°	
825 lx	870 lx	935 lx	940 lx		250 mm
220 lx	225 lx	235 lx	245 lx		500 mm
95 lx	95 lx	100 lx	105 lx		750 mm
50 lx	55 lx	55 lx	60 lx		1000 mm

LED 3090

Note
The IP44 degree of protection is reduced to IP20 when mounting as downlight or recess mounting with through hole.

Order reference
Please order housing separately.

5 12 V Loox5 12 V driver see page 121

5 24 V Loox5 24 V driver see page 122

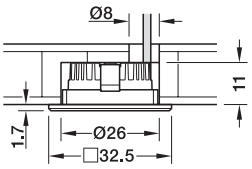
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20
IP44

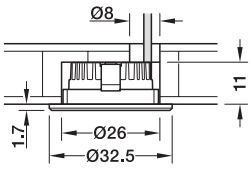
Häfele Loox5 LED 2090/3090

Voltage V	Quantity LEDs	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	R_9	Weighted energy consumption kWh/1000 h	Cat. No.
5 12 V	**Häfele Loox5 LED 2090**								
	1	2700	1.2	80	67	>90	>60	1.32	**833.72.470**
		3000	1.2	90	75	>90	>60	1.32	**833.72.471**
		4000	1.2	95	79	>90	>60	1.32	**833.72.472**
		5000	1.2	100	83	>90	>60	1.32	**833.72.473**
5 24 V	**Häfele Loox5 LED 3090**								
	1	2700	1.2	75	63	>90	>60	1.32	**833.75.170**
		3000	1.2	80	67	>90	>60	1.32	**833.75.171**
		4000	1.2	80	67	>90	>60	1.32	**833.75.172**
		5000	1.2	85	71	>90	>60	1.32	**833.75.173**

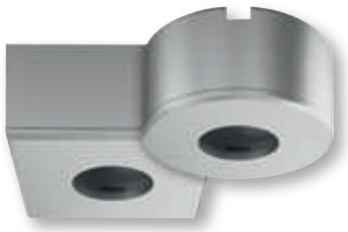
Recess mounted housing



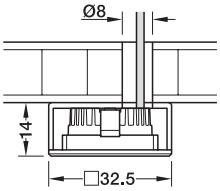
Recess mounting, square



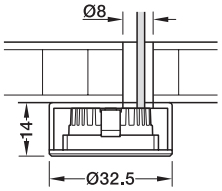
Recess mounting, round



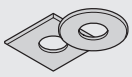
Downlight housing



Mounting as downlight, square

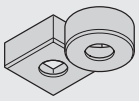


Mounting as downlight, round



> Housing for recess mounting, plastic

Colour	Round	Square
Black	**833.89.225**	**833.89.232**
Anthracite	**833.89.226**	**833.89.233**
Brown	**833.89.227**	**833.89.234**
Matt nickel plated	**833.89.223**	**833.89.230**
Stainless steel coloured	**833.89.228**	**833.89.235**
Silver coloured	**833.89.222**	**833.89.229**
White, RAL 9003	**833.89.224**	**833.89.231**



> Downlight housing, plastic

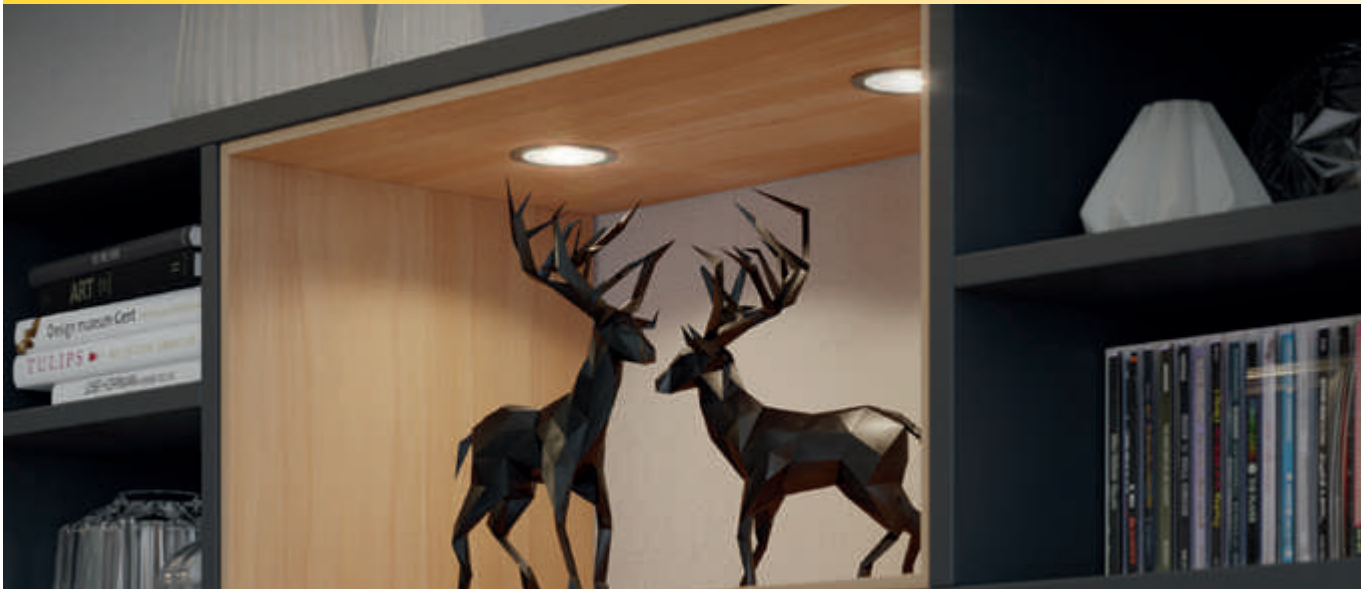
Colour	Round	Square
Black	**833.89.239**	**833.89.246**
Anthracite	**833.89.240**	**833.89.247**
Brown	**833.89.241**	**833.89.248**
Matt nickel plated	**833.89.237**	**833.89.244**
Stainless steel coloured	**833.89.242**	**833.89.249**
Silver coloured	**833.89.236**	**833.89.243**
White, RAL 9003	**833.89.238**	**833.89.245**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess/surface mounted downlights

Monochrome, drill hole Ø: 55 mm

Häfele Loox LED 2047/3038



- > Dimmable: Yes
- > Material: Steel
- > Energy efficiency class: A+
- > Degree of protection: IP20
- > Mounting: For mounting in drilled hole, for clamp fixing or for screw fixing
- > Drill hole Ø: 55 mm
- > Supplied with: 1 light with 2 m lead

3000 K	4000 K	5000 K	120°	
560 lx	570 lx	670 lx		250 mm
210 lx	215 lx	245 lx		500 mm
115 lx	115 lx	135 lx		750 mm
75 lx	75 lx	90 lx		1000 mm

LED 2047

3000 K	4000 K	5000 K	120°	
580 lx	590 lx	710 lx		250 mm
220 lx	220 lx	265 lx		500 mm
115 lx	115 lx	140 lx		750 mm
75 lx	75 lx	100 lx		1000 mm

LED 3038

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

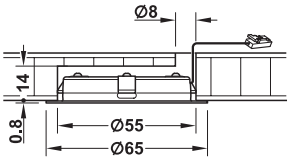
24 V 5 24 V Loox5 24 V driver see page 122
Please order 6-piece adapter set 833.77.838 separately.

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

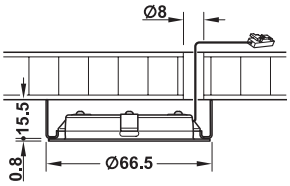
IP20

Häfele Loox LED 2047 / 3038

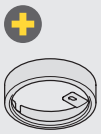
Voltage V	Number of LEDs	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Stainless steel coloured	Silver coloured	Polished chrome plated
12 V	**Häfele Loox LED 2047**									
	24	3000	3	210	70	90	3.3	**833.72.390**	**833.72.340**	**833.72.300**
		4000	3	216	72	90	3.3	**833.72.391**	**833.72.341**	**833.72.301**
		5000	3	240	80	83	3.3	**833.72.392**	**833.72.342**	**833.72.302**
24 V	**Häfele Loox LED 3038**									
	24	3000	3	215	72	90	3.3	**833.75.150**	**833.75.120**	**833.75.140**
		4000	3	225	75	90	3.3	**833.75.151**	**833.75.121**	**833.75.141**
		5000	3	245	82	83	3.3	**833.75.152**	**833.75.122**	**833.75.142**



Recess mounting



Mounting as downlight



> Downlight housing

Colour	Cat. No.
Stainless steel coloured	**833.72.804**
Silver coloured	**833.72.803**
Polished chrome plated	**833.72.802**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess/surface mounted downlights

Multi-white, drill hole Ø: 55 mm

Häfele Loox LED 2048/3039

2700 K	5000 K	120°	
290 lx	345 lx		250 mm
110 lx	130 lx		500 mm
60 lx	70 lx		750 mm
40 lx	45 lx		1000 mm

LED 2048

2700 K	5000 K	120°	
335 lx	350 lx		250 mm
125 lx	130 lx		500 mm
70 lx	70 lx		750 mm
45 lx	45 lx		1000 mm

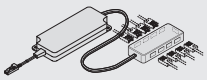
LED 3039

> Dimmable via multi-white mixer

> Material:	Steel
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Mounting:	For mounting in drilled hole, for clamp fixing or for screw fixing
> Drill hole Ø:	55 mm
> Supplied with:	1 light with 2 m multi-white lead

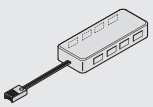
> Remote control 12/24 V

	Cat. No.
For multi-white mixer 12/24 V	833.77.786



> Multi-white mixer

		Cat. No.
12 V	With 8-way distributor, max. 30 W Power consumption 0.3 W	833.73.750
24 V	With 8-way distributor, max. 60 W Power consumption 0.3 W	833.77.787



> 8-way distributor 12/24 V

	Cat. No.
8-way distributor 12/24 V	833.77.721

Drivers for multi-white mixer

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

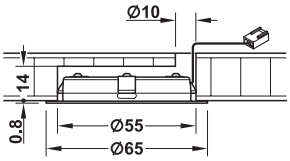
24 V 5 24 V Loox5 24 V driver see page 122
Please order 6-piece adapter set 833.77.838 separately.

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

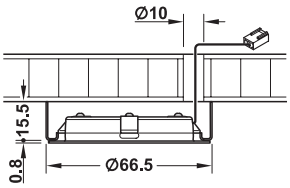
IP20

Häfele Loox LED 2048/3039

Voltage V	Number of LEDs	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Stainless steel coloured	Silver coloured	Polished chrome plated
12 V	**Häfele Loox LED 2048**									
	60	2700 5000	3	255	85	90 83	3.3	**833.72.400**	**833.72.311**	**833.72.310**
24 V	**Häfele Loox LED 3039**									
	60	2700 5000	3	258	85	90 83	3.3	**833.75.160**	**833.75.131**	**833.75.130**



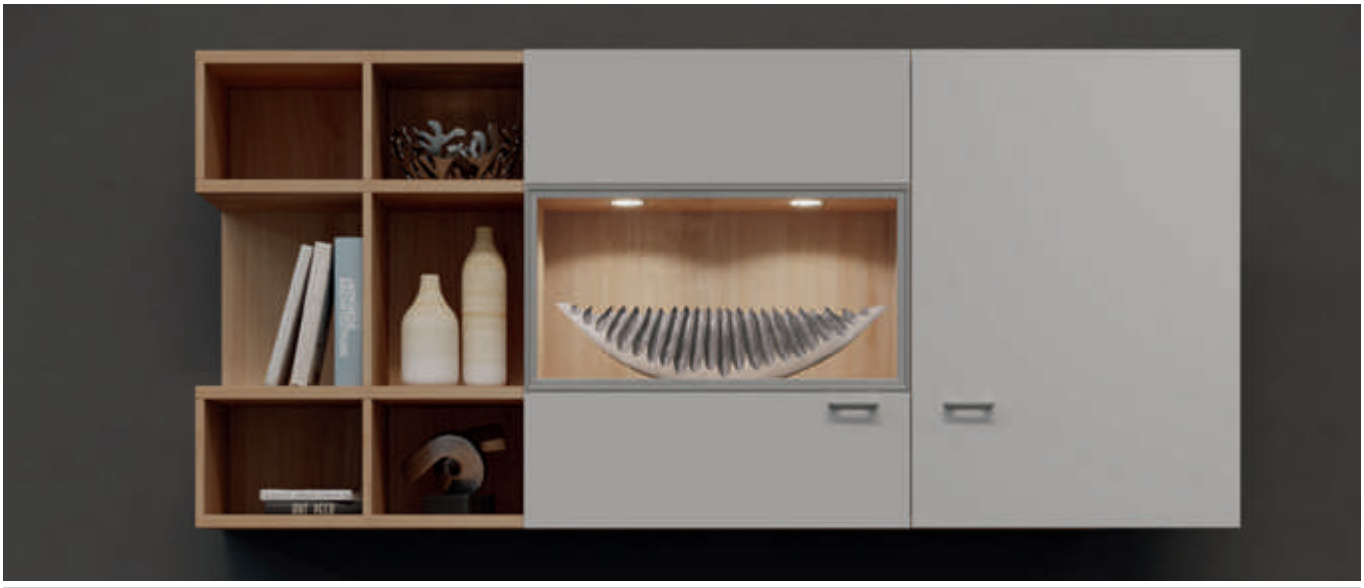
Recess mounting



Mounting as downlight

> Downlight housing

Colour	Cat. No.
Stainless steel coloured	**833.72.804**
Silver coloured	**833.72.803**
Polished chrome plated	**833.72.802**

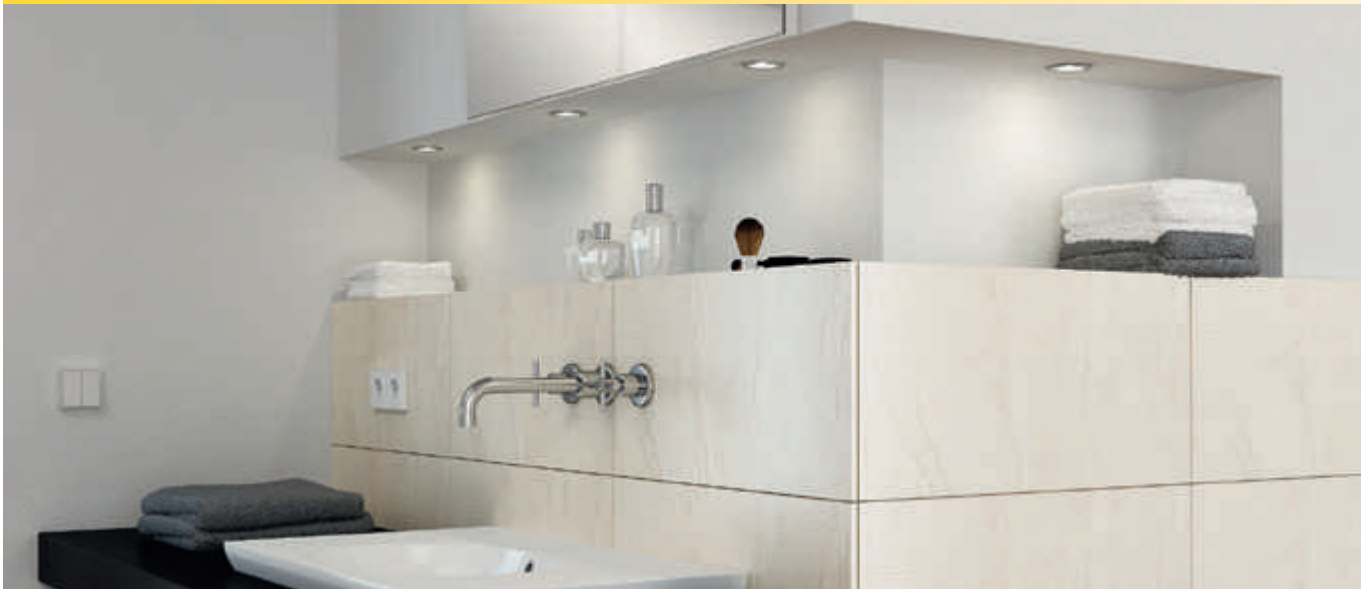


LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

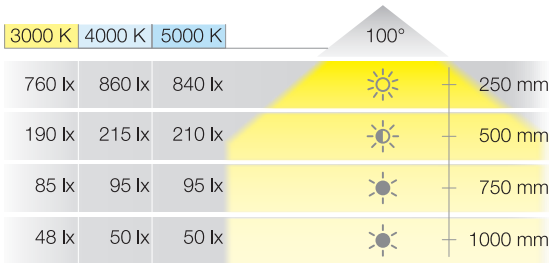
Recess/surface mounted downlights

Monochrome, drill hole Ø: 55 mm

Häfele Loox LED 2020



- > Dimmable: Yes
- > Material: Zinc alloy
- > Energy efficiency class: A
- > Degree of protection: IP44 as recess mounted downlight; IP20 with downlight housing (surface mounted downlight)
- > Number of LEDs: 6
- > Mounting: For mounting in drilled hole, for clamp fixing or for screw fixing
- > Drill hole Ø: 55 mm
- > Supplied with: 1 light with 2 m lead, including fixing materials



12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

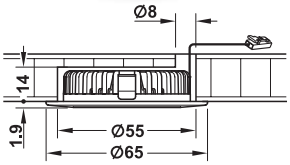
The IP44 degree of protection is reduced to IP20 when mounting as downlight or recess mounting with through hole.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Black	Matt nickel plated	Polished chrome plated
12 V	3000	3.2	142	44	83	3.52	**833.72.281**	**833.72.280**	**833.72.282**
	4000	3.2	150	47	83	3.52	**833.72.284**	**833.72.283**	**833.72.285**
	5000	3.2	150	47	83	3.52	**833.72.287**	**833.72.286**	**833.72.288**

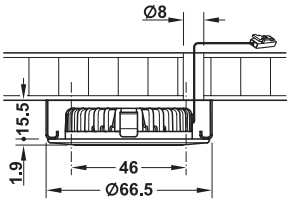
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20
IP44

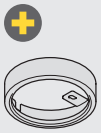
Häfele Loox LED 2020



Recess mounting



Mounting as downlight



> Downlight housing

Colour	Cat. No.
Black	**833.72.801**
Matt nickel plated	**833.72.800**
Polished chrome plated	**833.72.802**

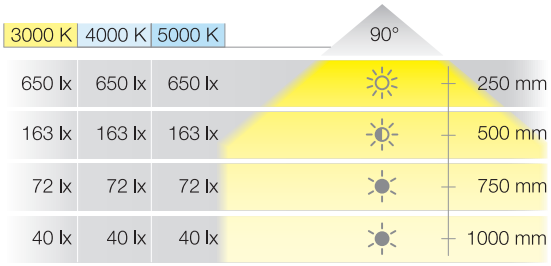
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess/surface mounted downlights

Monochrome, drill hole Ø: 26 mm

Häfele Loox LED 2022

- > Dimmable: Yes
- > Material: Aluminium
- > Energy efficiency class: A+
- > Degree of protection: IP44 as recess mounted downlight; IP20 with downlight housing (surface mounted downlight)
- > Number of LEDs: 3
- > Mounting: For mounting in drilled hole, for clamp fixing or for screw fixing
- > Drill hole Ø: 26 mm
- > Supplied with: 1 light with 2 m lead



12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

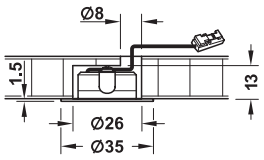
The IP44 degree of protection is reduced to IP20 when mounting as downlight or recess mounting with through hole.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Silver coloured anodized	Polished chrome plated
12 V	3000	1.5	105	70	82	1.65	**833.72.040**	**833.72.043**
	4000	1.5	105	70	87	1.65	**833.72.041**	**833.72.044**
	5000	1.5	105	70	88	1.65	**833.72.042**	**833.72.045**

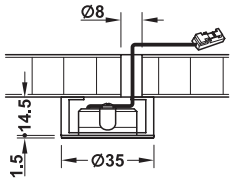
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20
IP44

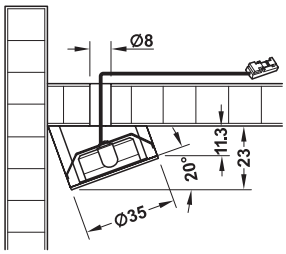
Häfele Loox LED 2022



Recess mounting



Mounting as downlight



> Downlight housing, round

Colour	Cat. No.
Silver coloured anodized	**833.72.831**
Chrome plated	**833.72.830**

> Downlight housing, wedge-shaped

Colour	Cat. No.
Silver coloured anodized	**833.72.832**
Chrome plated	**833.72.833**

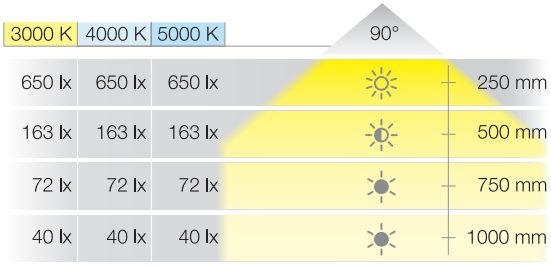
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess/surface mounted downlights

Monochrome, drill hole Ø: 26 mm

Häfele Loox LED 2023

- > Dimmable: Yes
- > Material: Aluminium
- > Length x width: 30 x 30 mm
- > Energy efficiency class: A+
- > Degree of protection: IP44 as recess mounted downlight; IP20 with downlight housing (surface mounted downlight)
- > Number of LEDs: 3
- > Mounting: For mounting in drilled hole, for clamp fixing
- > Drill hole Ø: 26 mm
- > Supplied with: 1 light with 2 m lead



12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

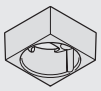
The IP44 degree of protection is reduced to IP20 when mounting as downlight or recess mounting with through hole.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Silver coloured anodized	Polished chrome plated
12 V	3000	1.5	105	70	82	1.65	**833.72.064**	**833.72.060**
	4000	1.5	105	70	82	1.65	**833.72.065**	**833.72.061**
	5000	1.5	105	70	82	1.65	**833.72.066**	**833.72.062**

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

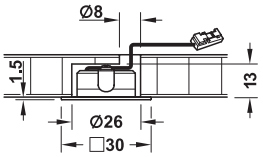
IP20
IP44

Häfele Loox LED 2023

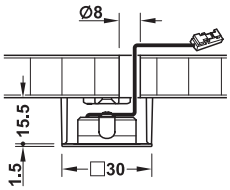


> Downlight housing, square, plastic

Colour	Cat. No.
Silver coloured	**833.72.834**
Chrome plated	**833.72.835**



Recess mounting



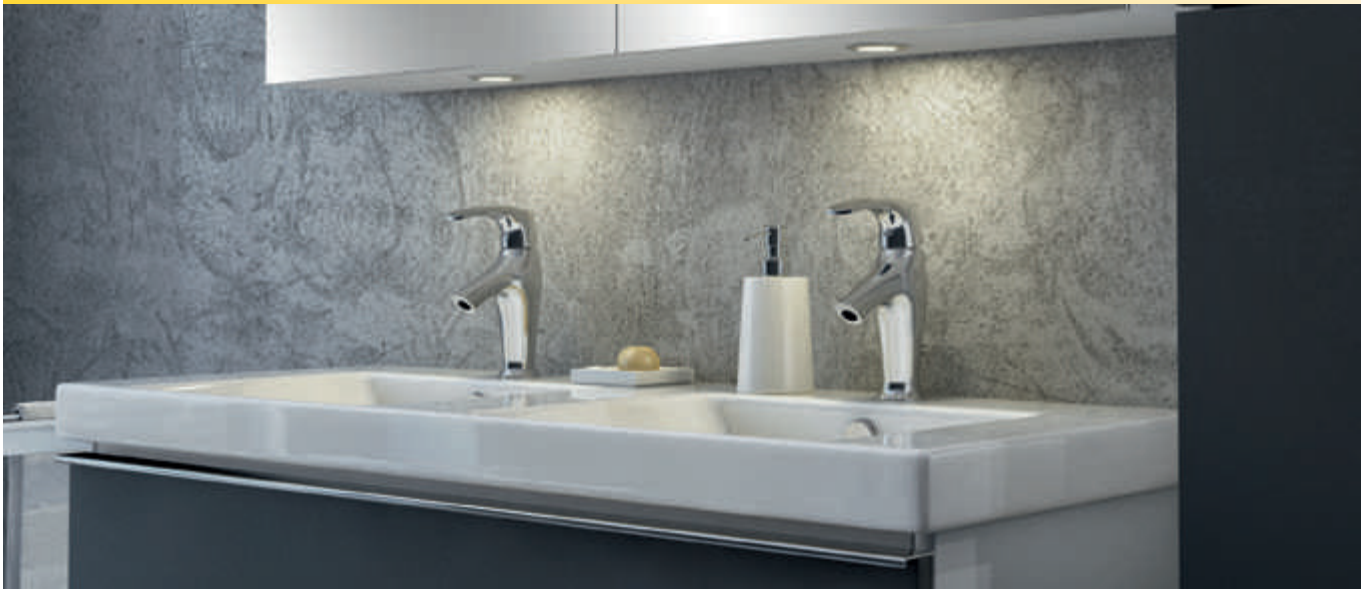
Mounting as downlight

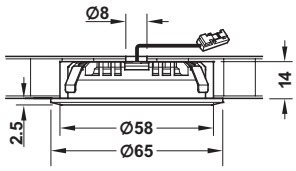
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

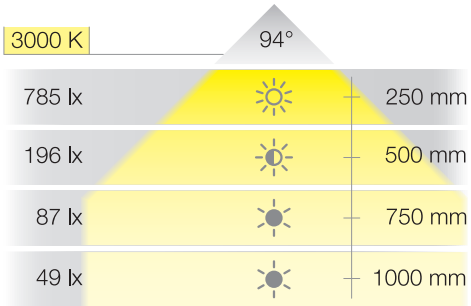
Recess mounted downlights

Monochrome, drill hole Ø: 58 mm

Häfele Loox LED 2039







- > Dimmable: Yes
- > Material: Zinc alloy
- > Energy efficiency class: A
- > Degree of protection: IP65 after installation
- > Number of LEDs: 18
- > Mounting: For mounting in drilled hole, for clamp fixing
- > Drill hole Ø: 58 mm
- > Supplied with: 1 light with 4 m lead

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Matt nickel plated	Chrome plated
12 V	3000	2.5	125	50	85	2.75	**833.72.091**	**833.72.092**

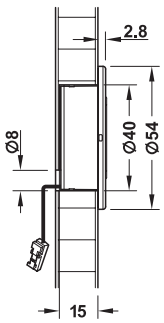
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

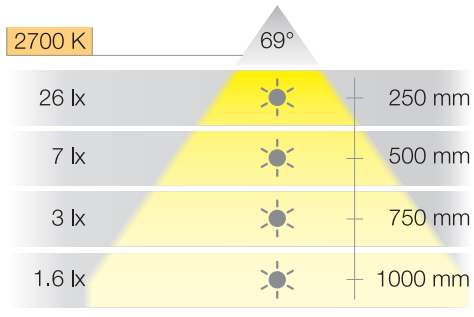
IP20
IP65

Recess mounted downlights

Monochrome, sensor-controlled, drill hole Ø: 40 mm

Häfele Loox LED 2028 with motion detector





- > Not dimmable
- > Material: Stainless steel, plastic
- > Version: With motion detector active from a decreasing ambient light of 15 lx
- > Energy efficiency class: A+
- > Degree of protection: IP44
- > Delay time: approx. 2 min.
- > Sensor range: 0–3000 mm
- > Number of LEDs: 3
- > Mounting: For mounting in drilled hole
- > Drill hole Ø: 40 mm
- > Supplied with: 1 light with 2 m lead, including fixing materials

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Black	Matt
12 V	2700	0.3	4	13	90	0.37	**833.73.111**	**833.73.110**

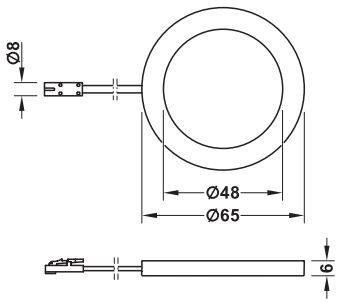
IP44

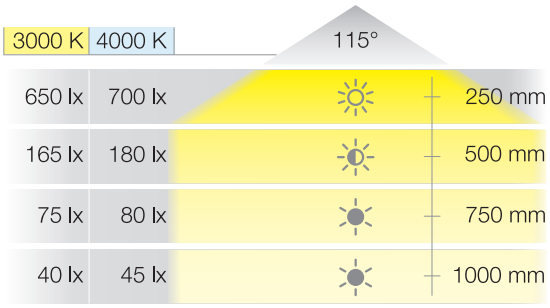
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Surface mounted downlights

Monochrome, Ø 65 mm

Häfele Loox LED 2050





- > Dimmable: Yes
- > Material: Plastic, silver coloured
- > Diameter: 65 mm
- > Height: 6 mm
- > Energy efficiency class: A+
- > Degree of protection: IP20
- > Number of LEDs: 8
- > Mounting: For screw fixing
- > Supplied with: 1 light with 2 m lead, including fixing materials

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

24 V Also available as 24 V light, see page 72

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
12 V	3000	2.5	170	68	90	2.75	**833.74.040**
	4000	2.5	180	72	90	2.75	**833.74.041**

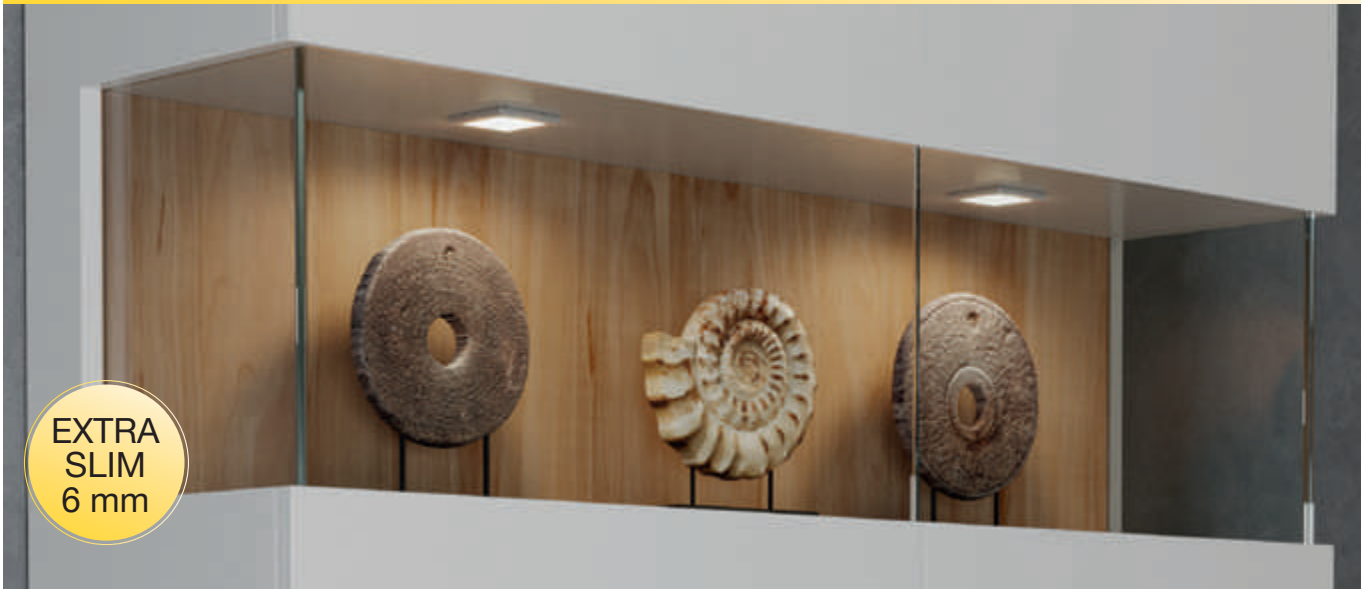
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

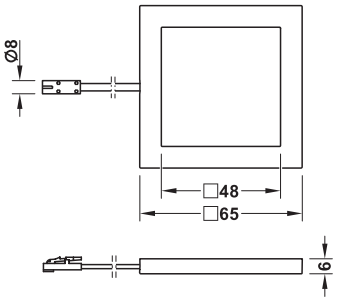
IP20

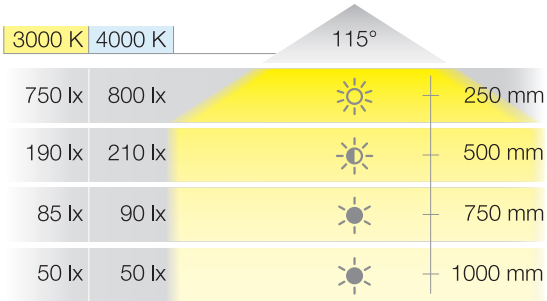
Surface mounted downlights

Monochrome, 65 x 65 mm

Häfele Loox LED 2051







- > Dimmable: Yes
- > Material: Plastic, silver coloured
- > Length x width: 65 x 65 mm
- > Height: 6 mm
- > Energy efficiency class: A+
- > Degree of protection: IP20
- > Number of LEDs: 8
- > Mounting: For screw fixing
- > Supplied with: 1 light with 2 m lead, including fixing materials

12 V 5 12 V — Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

24 V — Also available as 24 V light, see page 73

Also available as RGB light (12 V or 24 V), see page 78

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
12 V	3000	2.5	190	76	90	2.75	**833.74.030**
	4000	2.5	200	80	90	2.75	**833.74.031**

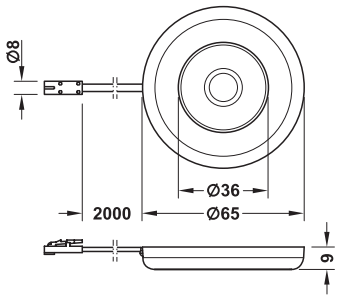
IP20

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Surface mounted downlights

Monochrome, Ø 65 mm

Häfele Loox LED 2027



> Dimmable:	Yes
> Material:	Aluminium, silver coloured, plastic
> Diameter:	65 mm
> Height:	9 mm
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Number of LEDs:	27
> Mounting:	For screw fixing
> Supplied with:	1 light with 2 m lead, including fixing materials

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

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
12 V	3000	2.6	190	73	85	2.86	**833.72.050**
	4000	2.6	208	80	85	2.86	**833.72.051**
	5000	2.6	218	84	85	2.86	**833.72.052**

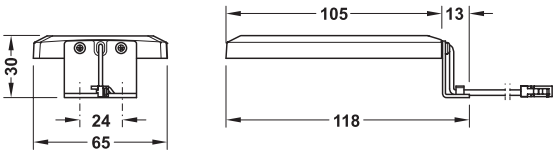
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

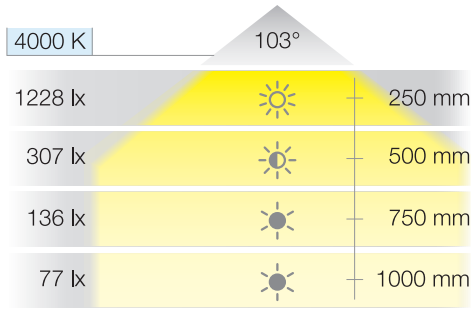
IP20

Surface mounted lights

Monochrome, 118 x 65 mm

Häfele Loox LED 2033





> Dimmable:	Yes
> Material:	Zinc alloy, plastic
> Length x width:	65 x 118 mm
> Height:	30 mm
> Energy efficiency class:	A
> Degree of protection:	IP44
> Number of LEDs:	18
> Mounting:	For screw fixing
> Supplied with:	1 light with 2 m lead, including fixing materials

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Chrome plated, black	Chrome plated, white
12 V	4000	3.8	219	58	85	4.18	**833.74.160**	**833.74.161**

IP44

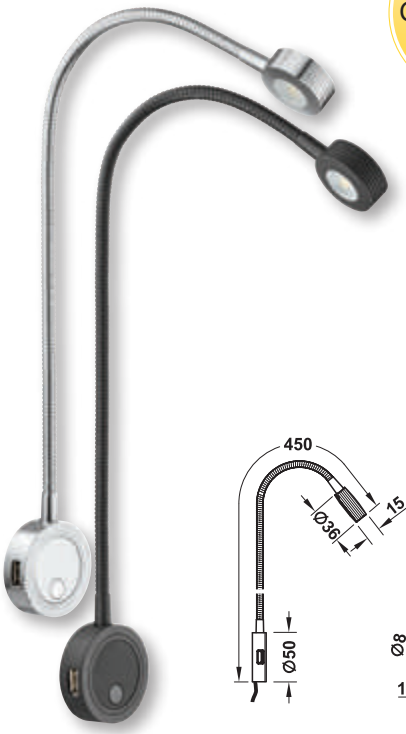
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

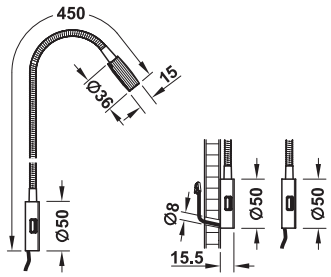
Flexible surface mounted lights

Monochrome with USB

Häfele Loox LED 2034

WITH USB CHARGING STATION



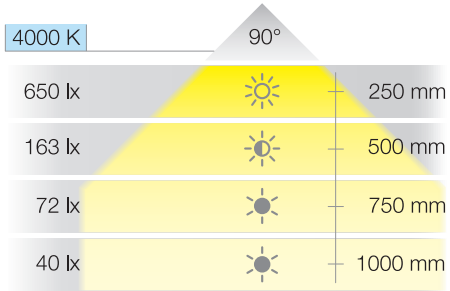


> Dimmable:	Yes
> Version:	Integrated twin USB charging station 5 V / 2 A, integrated push switch for 2 brightness levels
> Material:	Aluminium
> Length x width:	450 x 50 mm
> Height:	15.5 mm
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Number of LEDs:	3
> Colour temperature:	4000 K (cool white)
> Wattage:	Max. 17 W (light: 1.5)
> Luminous flux:	105 lm
> Luminous efficacy:	70 (lm/W)
> Mounting:	For screw fixing beneath magnetic cover
> Supplied with:	1 light with 2 m lead, including fixing materials

12 V 5 12 V

Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Min. 20 W driver per light for optimum operation of the USB charging station.



Voltage V	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Finish/colour	Cat. No.
12 V	82	1.65	Black	833.74.097
			Chrome plated	833.74.096

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

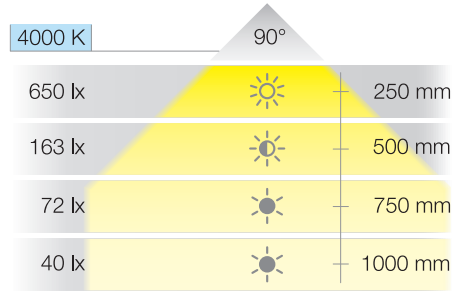
IP20

Flexible surface mounted lights

Monochrome

Häfele Loox LED 2035

> Dimmable:	Yes
> Version:	Integrated push switch for 2 brightness levels
> Material:	Aluminium
> Length x width:	450 x 50 mm
> Height:	15.5 mm
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Number of LEDs:	3
> Colour temperature:	4000 K (cool white)
> Wattage:	1.5 W
> Luminous flux:	105 lm
> Luminous efficacy:	70 (lm/W)
> Mounting:	For screw fixing beneath magnetic cover
> Supplied with:	1 light with 2 m lead, including fixing materials



12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Voltage V	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Finish/colour	Cat. No.
12 V	82	1.65	Black	833.74.153
			Chrome plated	833.74.152

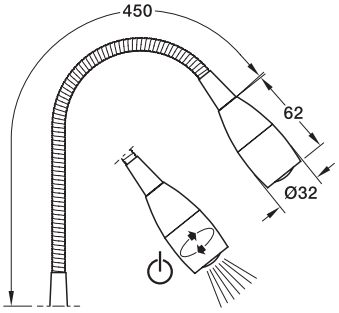
IP20

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Flexible surface mounted lights

Monochrome

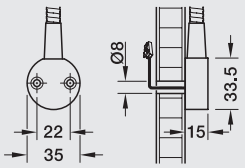
Häfele Loox LED 2018



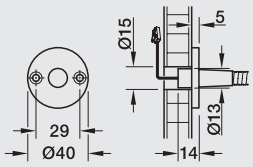
- > Not dimmable
- > Version: With integrated rotary switch on light head
- > Material: Aluminium, silver coloured anodized
- > Diameter: 32 mm
- > Energy efficiency class: A
- > Degree of protection: IP20
- > Number of LEDs: 1
- > Colour temperature: 3000 K
- > Wattage: 2 W
- > Luminous flux: 89 lm
- > Luminous efficacy: 45 lm/W
- > Mounting: Surface mounted or recess mounted
- > Drill hole Ø: 35 mm
- > Supplied with: 1 LED light with 2 m lead, including fixing materials

Surface mounted

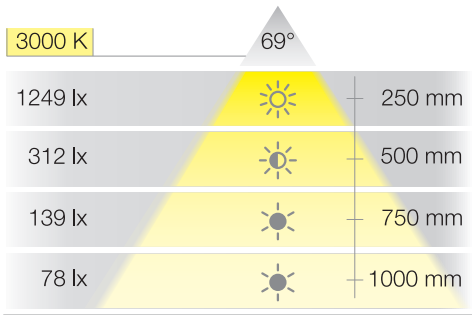
Recess mounted



Surface mounted



Recess mounted



12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Voltage V	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Length mm	Installation	Cat. No.
12 V	81	2.20	545.5	Surface mounted	**833.74.100**
			526	Recessed	**833.74.110**

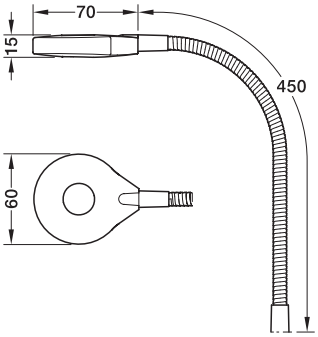
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

Flexible surface mounted lights

Monochrome

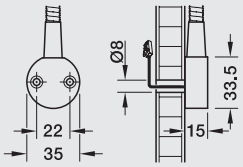
Häfele Loox LED 3018



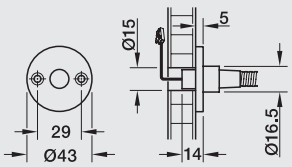
- > Dimmable: Yes
- > Version: With integrated dimmer on light head
- > Material: Plastic, silver coloured
- > Dimensions (Ø x L): 60 x 520 mm
- > Energy efficiency class: A
- > Degree of protection: IP20
- > Number of LEDs: 30
- > Colour temperature: 4000 K
- > Wattage: 2.8 W
- > Luminous flux: 165 lm
- > Luminous efficacy: 59 lm/W
- > Supplied with: 1 LED light with 2 m lead, including fixing materials

Surface mounted

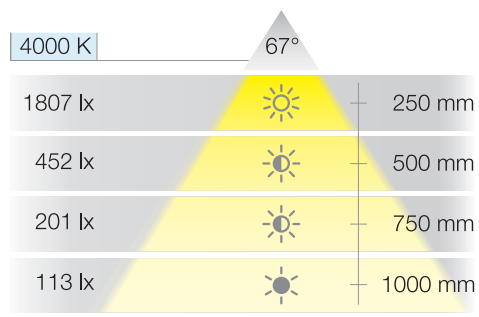
Recess mounted



Surface mounted



Recess mounted



24 V 5 24 V Loox5 24 V driver see page 122
Please order 6-piece adapter set 833.77.838 separately.

Voltage V	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Installation	Cat. No.
24 V	80	3.03	Surface mounted	833.77.001
			Recessed	833.77.000

IP20

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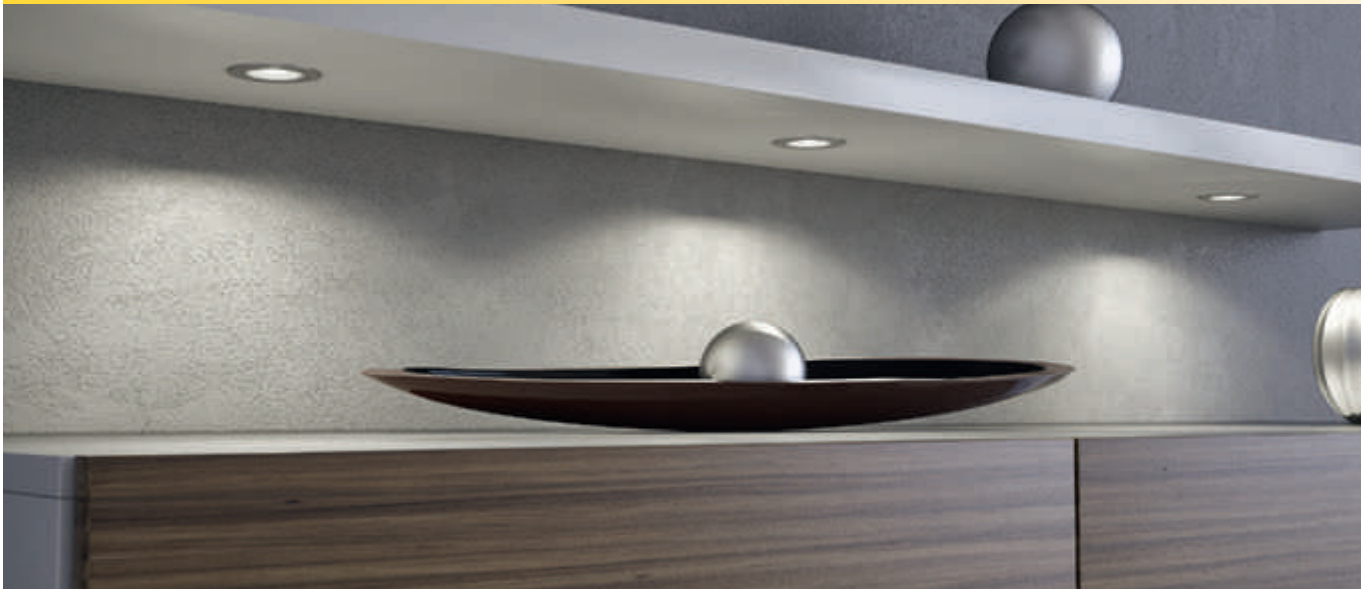
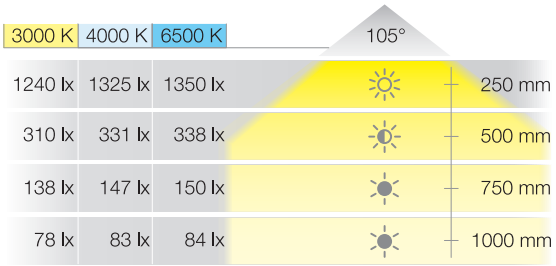
Recess/surface mounted downlights

Monochrome, drill hole Ø: 60 mm

Häfele Loox LED 3010



> Dimmable:	Yes
> Version:	With frosted and clear glass cover for individual replacement
> Material:	Aluminium, silver coloured anodized
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Number of LEDs:	1
> Mounting:	For mounting in drilled hole, for clamp fixing or for screw fixing
> Drill hole Ø:	60 mm
> Supplied with:	1 light with 1 glass pane clear/matt, 2 m lead incl. fixing material



24 V 5 24 V Loox5 24 V driver see page 122
Please order 6-piece adapter set 833.77.838 separately.

Note
When switching on the light, the power consumption briefly rises to 5 W per light.
Please note when selecting the driver and controls!

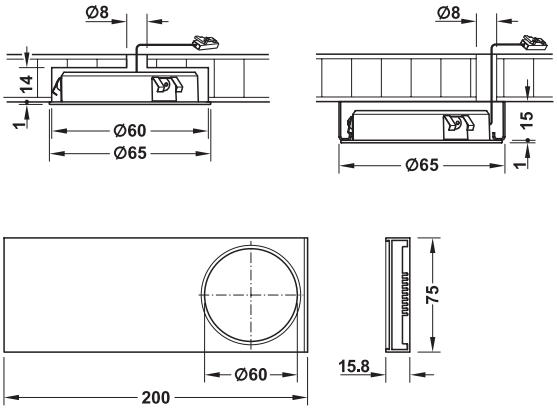
Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
24 V	3000	3.25	250	77	82	3.58	**833.75.040**
	4000	3.25	267	82	84	3.58	**833.75.041**
	6000	3.25	271	83	83	3.58	**833.75.042**

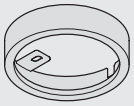
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

Häfele Loox LED 3010

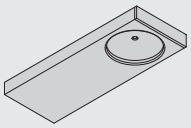
Downlight housing





> Downlight housing, silver coloured

	Cat. No.
Downlight housing, silver coloured	**833.77.730**



> Downlight housing, silver coloured

	Cat. No.
Downlight housing, silver coloured	**833.77.731**

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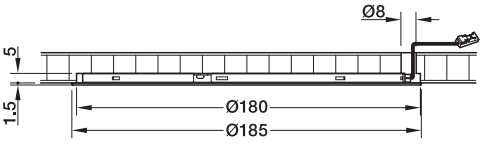
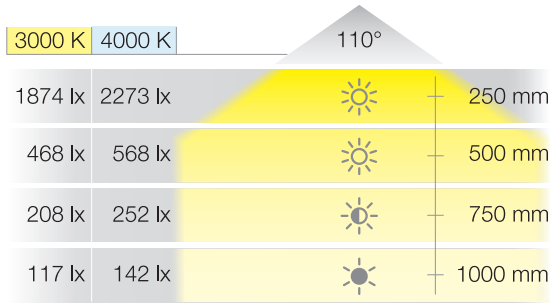
Recess mounted downlights

Monochrome, drill hole Ø: 180 mm

Häfele Loox LED 3022





> Dimmable:	Yes
> Material:	Plastic, silver coloured
> Energy efficiency class:	A++
> Degree of protection:	IP20
> Number of LEDs:	77
> Mounting:	For recess mounting
> Drill hole Ø:	180 mm
> Supplied with:	1 light with 2 m lead, including fixing materials

24 V 5 24 V

Loox5 24 V driver see page 122
Please order 6-piece adapter set 833.77.838 separately.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
24 V	3000	4.8	362	75	82	5.50	**833.75.100**
	4000	4.8	408	85	82	5.50	**833.75.101**

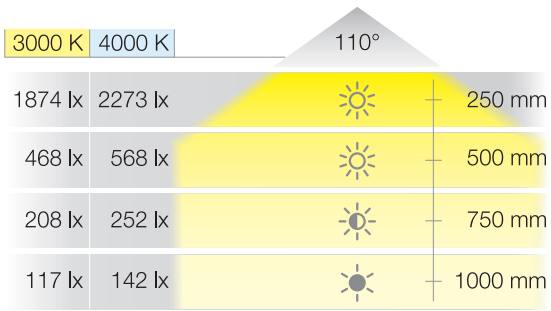
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

Surface mounted downlights

Monochrome, Ø 180 mm

Häfele Loox LED 3023



- > Dimmable: Yes
- > Material: Plastic, silver coloured
- > Height: 6.2 mm
- > Energy efficiency class: A++
- > Degree of protection: IP20
- > Number of LEDs: 77
- > Mounting: For screw fixing
- > Supplied with: 1 light with 2 m lead, including fixing materials

24 V 5 24 V Loox5 24 V driver see page 122
Please order 6-piece adapter set 833.77.838 separately.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
24 V	3000	4.8	362	75	82	5.50	**833.77.130**
	4000	4.8	408	85	82	5.50	**833.77.131**

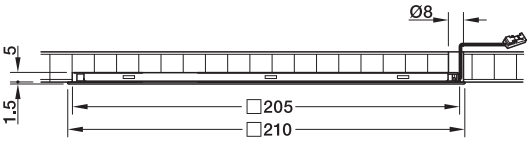
IP20

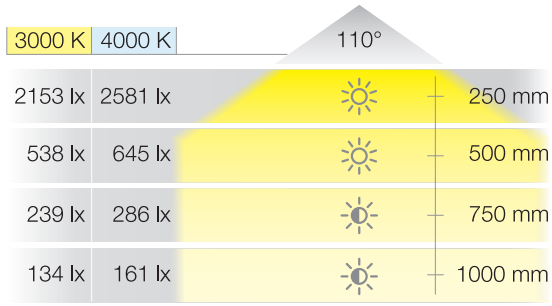
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess mounted downlights

Monochrome, 210 x 210 mm

Häfele Loox LED 3024





> Dimmable:	Yes
> Material:	Plastic, silver coloured
> Length x width:	210 x 210 mm
> Energy efficiency class:	A++
> Degree of protection:	IP20
> Number of LEDs:	70
> Mounting:	For recess mounting
> Cut-out size:	205 x 205 mm
> Supplied with:	1 light with 2 m lead, including fixing materials

24 V 5 24 V

Loox5 24 V driver see page 122
Please order 6-piece adapter set 833.77.838 separately.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
24 V	3000	5.8	430	74	82	7.15	**833.75.090**
	4000	5.8	530	91	82	7.15	**833.75.091**

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

Surface mounted downlights

Monochrome, 205 x 205 mm

Häfele Loox LED 3025

3000 K	4000 K	110°	
2153 lx	2581 lx		250 mm
538 lx	645 lx		500 mm
239 lx	286 lx		750 mm
134 lx	161 lx		1000 mm

- > Dimmable: Yes
- > Material: Plastic, silver coloured
- > Length x width: 205 x 205 mm
- > Height: 6.2 mm
- > Energy efficiency class: A++
- > Degree of protection: IP20
- > Number of LEDs: 70
- > Mounting: For screw fixing
- > Supplied with: 1 light with 2 m lead, including fixing materials

24 V 5 24 V Loox5 24 V driver see page 122
Please order 6-piece adapter set 833.77.838 separately.

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
24 V	3000	5.8	430	74	82	7.15	**833.77.120**
	4000	5.8	530	91	82	7.15	**833.77.121**

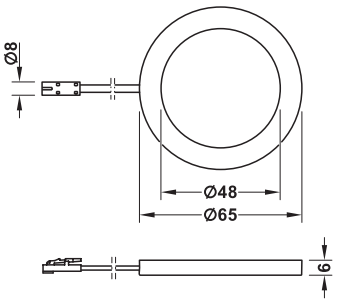
IP20

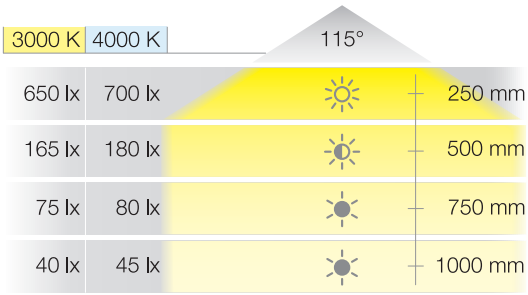
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Surface mounted downlights

Monochrome, Ø 65 mm

Häfele Loox LED 3035





- > Dimmable: Yes
- > Material: Plastic, silver coloured
- > Diameter: 65 mm
- > Height: 6 mm
- > Energy efficiency class: A+
- > Degree of protection: IP20
- > Number of LEDs: 8
- > Mounting: For screw fixing
- > Supplied with: 1 light with 2 m lead, including fixing materials

24 V 5 24 V Loox5 24 V driver see page 122
Please order 6-piece adapter set 833.77.838 separately.

12 V Also available as 12 V light, see page 58

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
24 V	3000	2.5	170	68	90	2.75	**833.77.190**
	4000	2.5	180	72	90	2.75	**833.77.191**

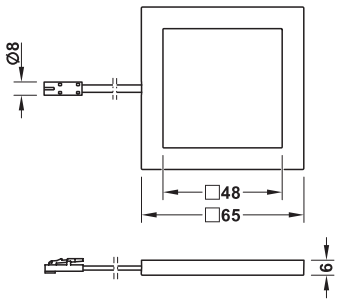
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

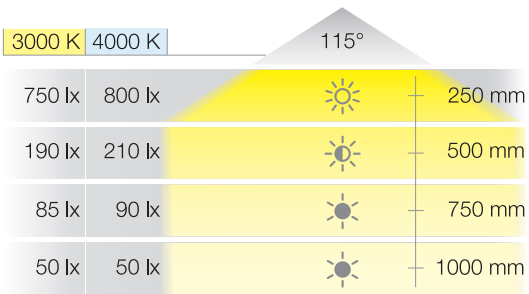
Surface mounted downlights

Monochrome, 65 x 65 mm

Häfele Loox LED 3036



> Dimmable:	Yes
> Material:	Plastic, silver coloured
> Length x width:	65 x 65 mm
> Height:	6 mm
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Number of LEDs:	8
> Mounting:	For screw fixing
> Supplied with:	1 light with 2 m lead, including fixing materials



24 V 5 24 V Loox5 24 V driver see page 122
Please order 6-piece adapter set 833.77.838 separately.

12 V Also available as 12 V light, see page 59

Also available as RGB light (12 V or 24 V), see page 78

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
24 V	3000	2.5	190	76	90	2.75	**833.77.180**
	4000	2.5	200	80	90	2.75	**833.77.181**

IP20

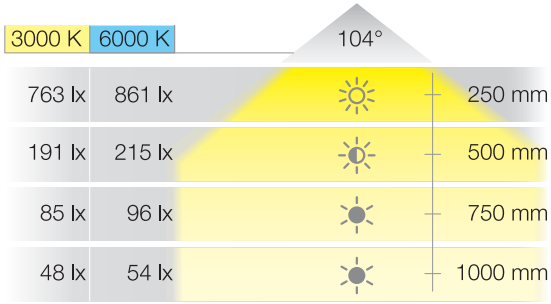
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Recess/surface mounted downlights

Monochrome, drill hole Ø: 58 mm

Häfele Loox LED 4009

> Dimmable:	Yes
> Version:	Metal housing
> Material:	Aluminium
> Energy efficiency class:	A
> Degree of protection:	IP20
> Number of LEDs:	3
> Mounting:	For mounting in drilled hole, for clamp fixing or for screw fixing
> Drill hole Ø:	58 mm
> Supplied with:	1 light with 2 m lead



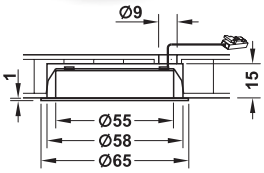
350 mA Loox 350 mA driver see page 124

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Black anodized	Nickel coloured anodized
350 mA	3000	3.9	160	41	82	3.30	**833.78.142**	**833.78.140**
	6000	3.9	176	45	82	3.30	**833.78.154**	**833.78.151**

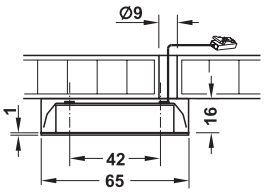
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

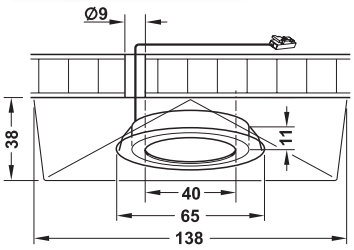
Häfele Loox LED 4009



Recess mounting



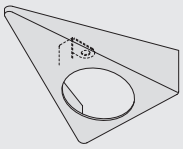
Mounting as downlight



For mounting as downlight with triangular housing

> Downlight housing
Dimensions (Ø x H): 65 x 16 mm

Colour	Cat. No.
Black anodized	**833.80.172**
Nickel coloured anodized	**833.80.710**



> Triangular downlight housing
Dimensions (L x W x H): 121 x 125 x 44 mm

Colour	Cat. No.
Black anodized	**833.80.713**
Nickel coloured anodized	**833.80.711**

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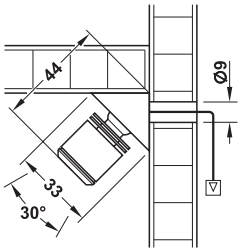
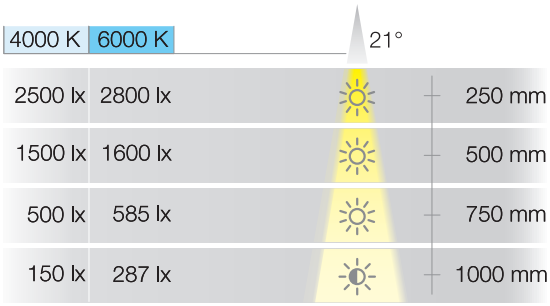
Surface mounted downlights

Spotlight monochrome, corner mounting

Häfele Loox LED 4013



> Dimmable:	Yes
> Version:	Space saving and inconspicuous
> Material:	Aluminium
> Length x width:	33 x 22 mm
> Height:	42 mm
> Energy efficiency class:	A+
> Degree of protection:	IP20
> Number of LEDs:	1
> Mounting:	For glue fixing or screw fixing
> Supplied with:	1 light with 2 m lead, including fixing materials



350 mA Loox 350 mA driver see page 124

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Black	Silver coloured anodized
350 mA	4000	1	64	64	87	1.10	**833.79.062**	**833.79.060**
	6000	1	71	71	85	1.10	**833.79.063**	**833.79.061**

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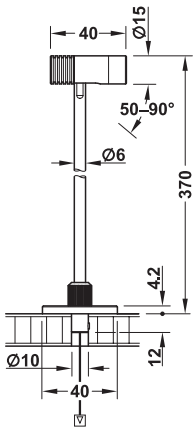
IP20

Surface mounted lights

Spotlight monochrome, post light

Häfele Loox LED 4011



> Dimmable:	Yes
> Version:	Swivelling light head With height adjustment (bar can be lowered into the cabinet)
> Material:	Aluminium and steel, black
> Diameter:	Post: 6 mm
> Length:	370 mm
> Energy efficiency class:	A++
> Degree of protection:	IP20
> Number of LEDs:	1
> Mounting:	For recess mounting
> Supplied with:	1 light with 2 m lead, including fixing materials

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

350 mA Loox 350 mA driver see page 124

Voltage V	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Weighted energy consumption kWh/1000 h	Cat. No.
350 mA	4000	1	69	69	80	1.10	**833.80.000**
	6000	1	97	97	80	1.10	**833.80.001**

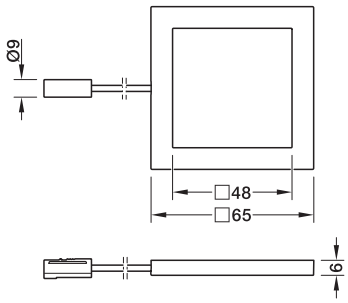
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

IP20

Surface mounted downlights

RGB, 65 x 65 mm

Häfele Loox5 LED 2081 / 3081



> Material:	Plastic
> Length x width:	65 x 65 mm
> Height:	6 mm
> Degree of protection:	IP20
> Refraction angle:	115°
> Mounting:	For screw fixing
> Supplied with:	1 light with 2 m lead, including fixing materials

5 12 V Loox5 12 V driver see page 121

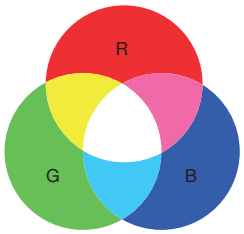
5 24 V Loox5 24 V driver see page 122

Colour control only via 6-way distributor Häfele Connect Mesh with RGB adapter and remote control or smartphone.
Please order separately, see chapter Networking, page 96

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Häfele Loox5 LED 2081 / 3081

Colour mixing



RGB lights
> Mix any combination of intensive light colours
> Creative decorative effects
> Create an invigorating or relaxing atmosphere

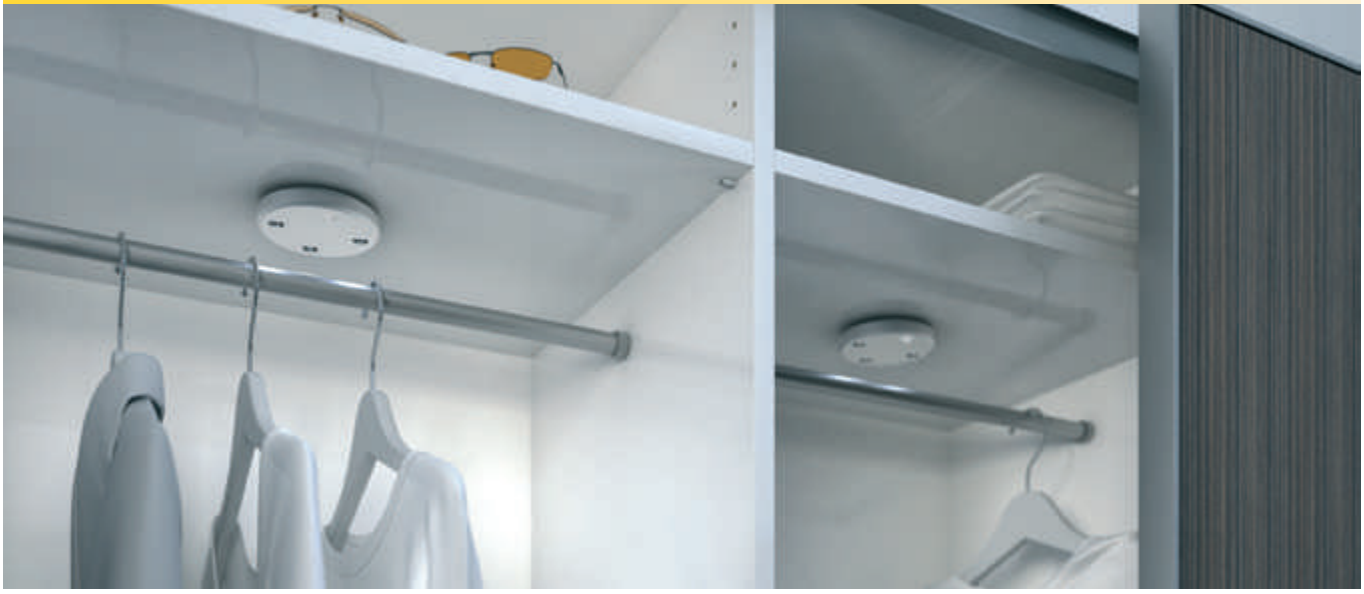
Voltage V	Number of LEDs	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Weighted energy consumption kWh/1000 h	Cat. No.
5 12 V	**Häfele Loox5 LED 2081**						
	6	RGB	0.7	20	29	0.77	**833.74.127**
5 24 V	**Häfele Loox5 LED 3081**						
	6	RGB	0.7	20	29	0.77	**833.77.230**

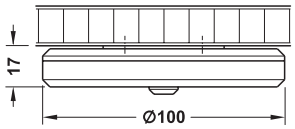
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

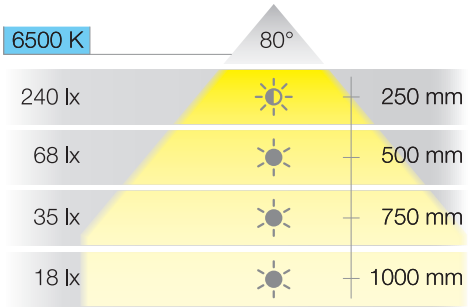
Surface mounted downlights

Battery-operated light, monochrome, Ø 100 mm

Häfele Loox LED 9003







> Version:	With integrated motion detector with built-in rechargeable lithium-ion battery, capacity: 1100 mAh
> Material:	Plastic, silver coloured
> Diameter:	100 mm
> Height:	17 mm
> Energy efficiency class:	A++
> Degree of protection:	IP20
> Number of LEDs:	3
> Sensor range	0–2000 mm
> Sensor angle:	120°
> Delay time:	30 sec.
> Operating time:	10 hrs.
> Charging time:	3–4 hrs.
> Mounting:	Magnetic mounting plate for screw fixing
> Supplied with:	1 light with magnetic mounting plate and 0.8 m mini-USB charging cable

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

Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Cat. No.
6500	0.6	30	50	80	**833.87.012**

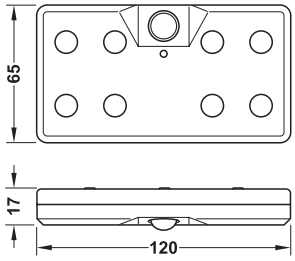
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

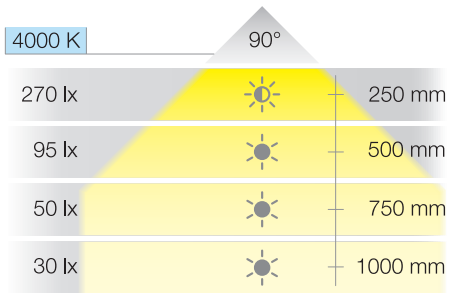
IP20

Surface mounted downlights

Battery-operated light, monochrome, 120 x 65 mm

Häfele Loox LED 9004





> Version:	With motion detector with built-in rechargeable lithium-ion battery
> Material:	Plastic, silver coloured
> Length x width:	120 x 65 mm
> Height:	17 mm
> Energy efficiency class:	A++
> Degree of protection:	IP20
> Number of LEDs:	8
> Sensor range	0–2000 mm
> Sensor angle:	120°
> Delay time:	30 sec.
> Operating time:	8 hrs.
> Charging time:	3 hrs.
> Two operating modes:	Motion: permanently active motion detector Auto: motion detector active with residual brightness of <5 lx
> Mounting:	Mounting plate for screw fixing; light for sliding on
> Supplied with:	1 light with mounting plate for screw fixing and 0.8 m micro-USB cable

The light can be recharged using the supplied micro-USB cable

Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Colour rendering index CRI R_a	Cat. No.
4000	0.8	55	69	>90	**833.87.021**

IP20

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Extending

Charging stations

ESC 2002 inductive charging station > Page 83
ESC 2001 USB charging station, modular > Page 83

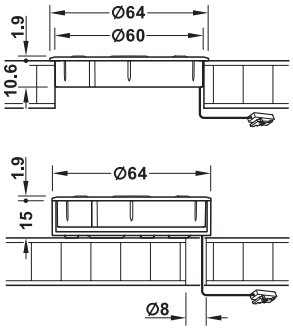
Sound systems

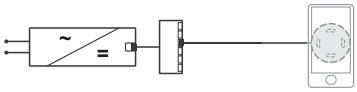
105 sound system > Page 84
420 E sound system, exciter speakers > Page 85

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Charging stations

Häfele Loox ESC 2002 inductive charging station – for 12 V system





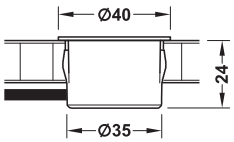
- > Material/colour: Plastic, matt black
- > Diameter: 64
- > Charging current: 1 A
- > Output voltage: 5 V
- > Standby power consumption: 0.3 W
- > Power consumption: Max. 10 W
- > Standard: WPC compatible
- > Supplied with: 1 inductive charging station with mounting ring and 2 m lead

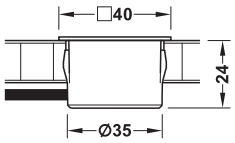
Voltage V		Cat. No.
12 V	ESC 2002 inductive charging station	**833.73.776**

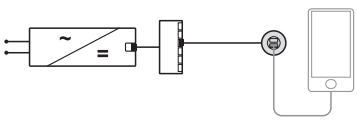
Drill hole Ø for plug: 8 mm

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Häfele Loox ESC 2001 USB charging station, modular – for 12 V system







- > Material: Plastic, matt
- > Output voltage: 5 V
- > Output current: 2 A
- > Power consumption: Max. 15 W
- > Drill hole Ø: 35 mm
- > Mounting: For mounting in drilled hole, for clamp fixing
- > Supplied with: 1 USB charging station

Colour	Round	Straight-edged
Black	**833.73.751**	**833.73.754**
Nickel plated	**833.73.753**	**833.73.756**
White	**833.73.752**	**833.73.755**

Lead with snap-in connector

Type of cable	Voltage	Length mm	Cat. No.
Monochrome (2-wire 24 AWG)	5 12 V	1000	**833.95.789**
		2000	**833.95.788**

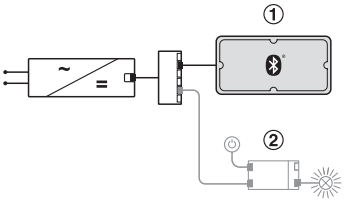
Please order lead separately.

5 12 V Loox5 12 V driver see page 121

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Sound systems

105 sound system



① Sound system
② 3-way distributor with switching function

- > Material/finish: Plastic, black
- > Dim. (L x W x H): 140 x 66 x 25 mm
- > Power consumption: Operation: 7 W, standby: <0.3 W
- > Music wattage: 5 W (RMS)
- > Reception range: Max. 10 m
- > Mounting: For screw fixing
- > Supplied with: 1 Bluetooth® receiver and 2 m lead

Voltage V		Straight-edged
12 V	105 sound system (Mono with integrated exciter speaker)	**822.65.001**

Please observe the installation regulations for bathrooms!

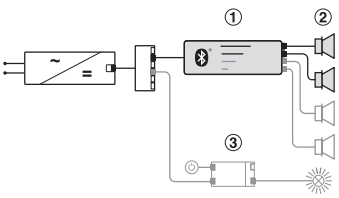
12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Sound systems

420 E sound system, exciter speakers

> App for individual settings available on request



① Sound system
② Exciter speaker
③ 3-way distributor with switching function

- > Material/finish: Plastic, black
- > Dim. (L x W x H): 140 x 45 x 15 mm
- > Power consumption: Operation with 2 exciter speakers: Max. 19 W, operation with 4 exciter speakers: Max. 32 W, standby: <0.3 W
- > Music wattage: Operation with 2 or 4 exciter speakers: 2 x 10 W (RMS)
- > Reception range: Max. 10 m
- > Mounting: For screw fixing
- > Supplied with: 1 Bluetooth® receiver with 2 m lead and 4 connections for exciter speakers, incl. 2 exciter speakers

Voltage V		Cat. No.
12 V	420 E sound system (stereo and 2 exciter speakers)	**822.65.034**

Please observe the installation regulations for bathrooms!
Can be installed on glass and mirror glass (3–6 mm each), acrylic glass (3 mm), chipboard (10–20 mm) and mineral composite boards.

12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

Exciter speaker

- > Dimensions: Ø 65 x 22 mm
- > Wattage: Rated/music load capacity 4/15 W
- > Mounting: For screw fixing or for glue fixing
- > Supplied with: 1 exciter speaker with 1 m speaker lead

	Cat. No.
Exciter speaker (wattage with 12 V plug system)	**822.65.039**

Please order extension lead 2 m 833.73.766 for exciter speaker separately.

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

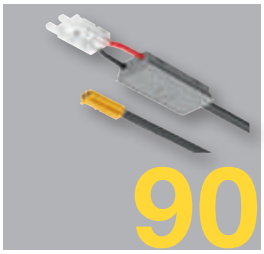
Switching

Sensor switches

Sensor switch	> Page 87
Door sensor switch	> Page 87
Motion detector	> Page 87
Dimmer	> Page 88
Captive switch/ dimmer	> Page 88
Sensor switch, surface mounted	> Page 89
Door sensor switch, surface mounted	> Page 89
Dimmer, surface mounted	> Page 89

Sensor switch for aluminium profiles

Dimmer	> Page 90
Motion detector	> Page 90



Mechanical switches

Universal door contact switch	> Page 91
Door contact switch	> Page 91
Push switch	> Page 91
Rocker switch	> Page 92
Foot switch	> Page 92
Housing for switch, surface mounted	> Page 92

Dimmer interface

Dimmer interface 1–10 V, modular	> Page 93

Multi switch box, multi driver box

Multi switch box	> Page 94
Multi driver box	> Page 95

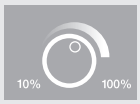
Symbol overview

Sensor switch
Touchless, soft on/off switching

Door sensor switch
Soft on/off switching

Motion detector
Automatic on/off switching

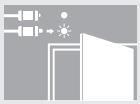
Dimmer
Soft on/off switching and dimming



Captive switch/dimmer
Touchless on/off switching and dimming

Universal door contact switch
On/off switching

Door contact switch
On/off switching,
door closed = light off,
door open = light on



Push switch
On/off switching

Rocker switch
On/off switching

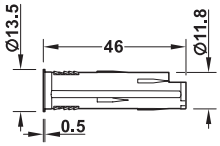
Foot switch
On/off switching

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Sensor switches

Häfele Loox sensor switch, modular – touchless, soft on/off switching

TOUCHLESS



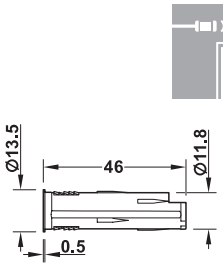
- > Material/colour: Plastic, silver coloured
- > Degree of protection: IP20
- > Sensor range: 0–80 mm
- > Power consumption: ≤0.3 W
- > Drill hole Ø: 12 mm
- > Supplied with: 1 switch

	Cat. No.
Sensor switch, modular	**833.89.127**

Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142.
See page 91

On/off state is stored without the need for power supply (memory function).

Häfele Loox door sensor switch, modular – soft on/off switching

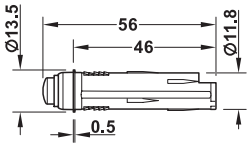


- > Material/colour: Plastic, silver coloured
- > Degree of protection: IP20
- > Sensor range: 0–100 mm
- > Power consumption: ≤0.3 W
- > Drill hole Ø: 12 mm
- > Supplied with: 1 switch

	Cat. No.
Door sensor switch, modular	**833.89.128**

Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142.
See page 91

Häfele Loox motion detector, modular – automatic on/off switching



- > Material/colour: Plastic, silver coloured
- > Degree of protection: IP20
- > Sensor range: 0–3000 mm
- > Sensor angle: 120 °
- > Power consumption: ≤0.1 W
- > Delay time: 30 sec.
- > Drill hole Ø: 12 mm
- > Supplied with: 1 motion detector

	Cat. No.
Motion detector, modular	**833.89.129**

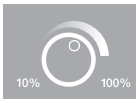
Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142.
See page 91

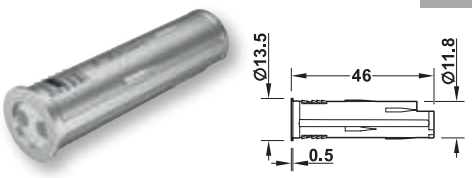
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Sensor switches

Häfele Loox dimmer, modular – automatic on/off switching

WITH TOUCH/
TOUCHLESS





> Material/colour: Plastic, silver coloured
> Degree of protection: IP20
> Power consumption: ≤0.3 W
> Drill hole Ø: 12 mm
> Supplied with: 1 dimmer

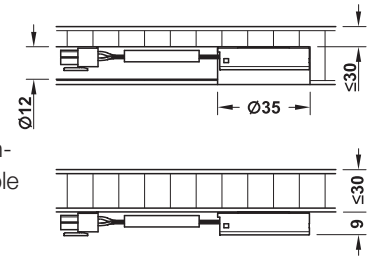
	Sensor range	Cat. No.
With touch	–	**833.89.058**
Touchless	0–60 mm	**833.89.126**

Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142.
See page 91

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

Häfele Loox capacitive switch/dimmer, modular – touchless on/off switching and dimming

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



> Manual operation (proximity sensor), memory function
> 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)
> A distance of min. 500 mm to electromagnetic fields (power lines, microwave) must be adhered to.

> Material/colour: Plastic, silver coloured
> Diameter: 35 mm
> Height: 10 mm
> Degree of protection: IP20
> Power consumption: ≤1 W
> Supplied with: 1 switch

	Cat. No.
Capacitive switch/dimmer, modular	**833.89.133**

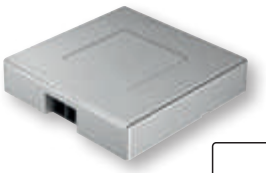
Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142.
See page 91

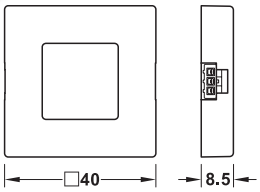
LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Sensor switches

Häfele Loox Sensor switch, surface mounted modular – touchless, soft on/off switching

TOUCHLESS





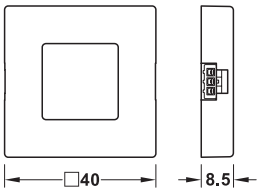
> Material/colour: Plastic, silver coloured
> Dim. (L x W x H): 40 x 40 x 8.5 mm
> Degree of protection: IP20
> Sensor range: 0–80 mm
> Power consumption: ≤0.3 W
> Supplied with: 1 switch with fixing material

	Cat. No.
Sensor switch, surface mounted modular	**833.89.136**

Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142.
See page 91

On/off state is stored without the need for power supply (memory function).

Häfele Loox Door sensor switch, surface mounted modular – soft on/off switching



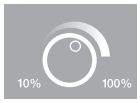
> Material/colour: Plastic, silver coloured
> Dim. (L x W x H): 40 x 40 x 8.5 mm
> Degree of protection: IP20
> Sensor range: 0–100 mm
> Power consumption: ≤0.3 W
> Supplied with: 1 switch with fixing material

	Cat. No.
Door sensor switch, surface mounted	**833.89.137**

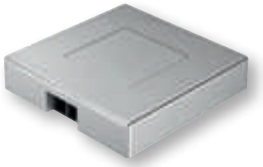
Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142.
See page 91

Häfele Loox Dimmer, surface mounted modular – soft on/off switching and dimming

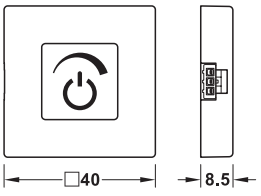
WITH TOUCH/ TOUCHLESS

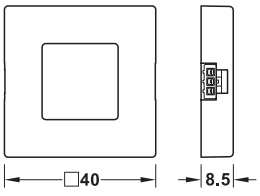


With touch function



Touchless





> Material/colour: Plastic, silver coloured
> Dim. (L x W x H): 40 x 40 x 8.5 mm
> Degree of protection: IP20
> Sensor range: 0–100 mm
> Power consumption: ≤0.3 W
> Supplied with: 1 switch with fixing material

	Sensor range	Cat. No.
With touch	–	**833.89.134**
Touchless	0–80 mm	**833.89.135**

Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142.
See page 91

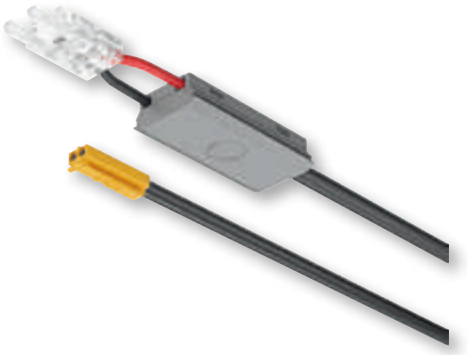
Dimming value is stored without the need for voltage supply (memory function)

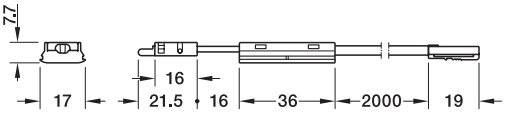
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Sensor switches

For monochrome 8 mm LED strip lights in aluminium profiles

Loox5 aluminium profile dimmer – soft on/off switching with dimming





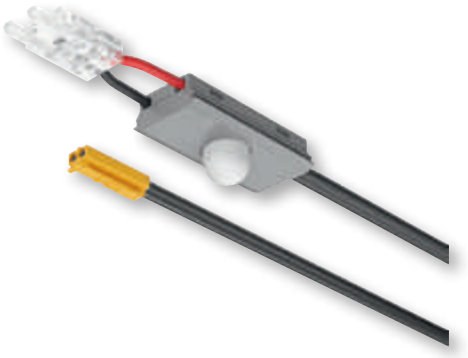
> Area of application: For monochrome 8 mm Loox5 LED strip lights in aluminium profiles with 16 mm internal width
> Material/colour: Plastic, silver coloured
> Drill hole Ø: Plug 8 mm
> Mounting: For push fitting into aluminium profile
> Supplied with: 1 switch with clip/plug and 2 m lead

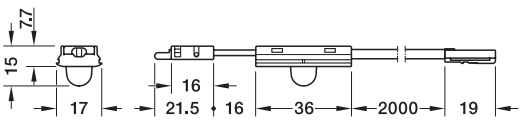
Voltage	Max. connected wattage W	Cat. No.
5 12 V	60	833.95.751
5 24 V	90	833.77.836

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

Aluminium profile with 16 mm internal width
see page 22 and page 28

Loox5 aluminium profile motion detector – automatic on/off switching





> Area of application: For monochrome 8 mm Loox5 LED strip lights in aluminium profiles with 16 mm internal width.
> Material/colour: Plastic, silver coloured
> Drill hole Ø: Plug 8 mm
> Mounting: For push fitting into aluminium profile
> Sensor range: 0–3000 mm
> Delay time: 30 sec.
> Supplied with: 1 switch with clip/plug and 2 m lead

Voltage	Max. connected wattage W	Cat. No.
5 12 V	60	833.95.750
5 24 V	90	833.77.835

Aluminium profile with 16 mm internal width
see page 22 and page 28

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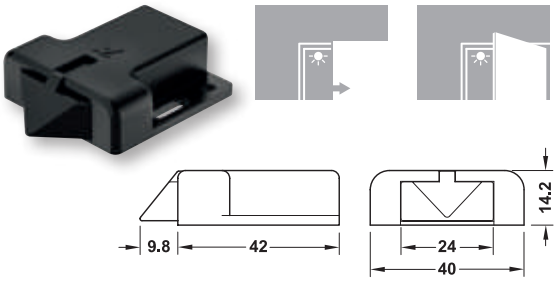
Mechanical switches

Häfele Loox universal door contact switch, modular – on/off switching



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

> Material/colour: Plastic, black
> Degree of protection: IP20
> Supplied with: 1 switch with fixing material

Length x width mm	Height mm	Cat. No.
51.8 x 40	14.2	**833.89.143**

Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142.

Häfele Loox lead with snap-in connector for modular switches

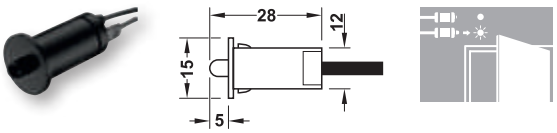
> Degree of protection: IP20
> Supplied with: 1 lead

Material/colour:	Length mm	Cat. No.
Plastic, black	500 mm	**833.89.140**
	1000 mm	**833.89.141**
	2000 mm	**833.89.142**

Required for modular switches

Drill hole Ø for plug: 12 mm

Häfele Loox door contact switch – on/off switching

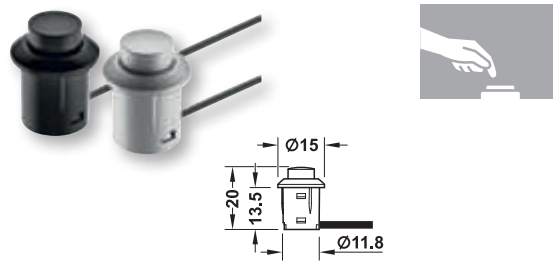


> Degree of protection: IP20
> Drill hole Ø: 12 mm
> Supplied with: 1 switch with 2 m lead

Material/colour	Length mm	Cat. No.
Plastic, black	28	**833.89.059**

Drill hole Ø for plug: 12 mm

Häfele Loox push switch – on/off switching



> Drill hole Ø: 12 mm
> Supplied with: 1 switch with 2 m lead

Material/colour:	Length mm	Cat. No.
Plastic, black	20	**833.89.108**
Plastic, grey		**833.89.107**

Drill hole Ø for plug: 12 mm

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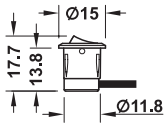
Mechanical switches

Häfele Loox rocker switch – on/off switching

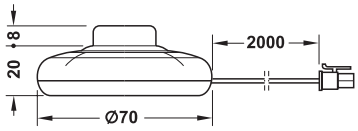


> Material/colour: Plastic, black
> Diameter: 15 mm
> Height: 17.7 mm
> Drill hole Ø: 12 mm
> Supplied with: 1 switch with 2 m lead

	Cat. No.
Rocker switch	**833.89.106**

Drill hole Ø for plug: 12 mm

Häfele Loox foot switch – on/off switching

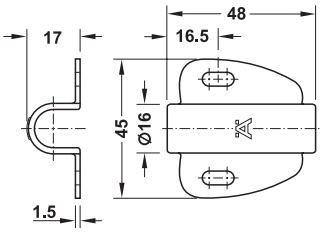


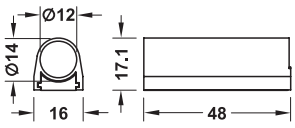
> Material/colour: Plastic, black
> Diameter: 70 mm
> Height: 28 mm
> Degree of protection: IP20
> Supplied with: 1 switch with 2 m lead

	Cat. No.
Foot switch	**833.89.046**

Drill hole Ø for plug: 12 mm

Housing for switch, surface mounted





> Material/colour: Plastic, silver coloured
> Supplied with: 1 housing
> Application: For switch Ø 12 mm

Ø mm	Dim. (L x W x H) mm	Cat. No.
16	48 x 45 x 17	**833.89.090**
14	48 x 16 x 17.1	**833.89.092**

Suitable for 32 mm series drilled holes

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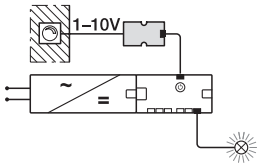
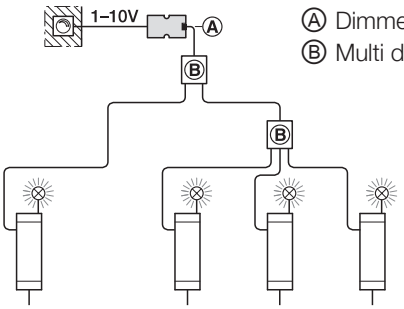
Dimmer interface

Häfele Loox dimmer interface 1–10 V, modular – for 12 V, 24 V and 350 mA systems



Installation example: Wall dimmer with 1–10 V control output. No connection of the dimmer to mains voltage!



Ⓐ Dimmer interface
Ⓑ Multi driver box

Installation example: Multi driver boxes for controlling several drivers (12 V, 24 V) or distributors with switching function.
No connection of the dimmer to mains voltage!

Design advantage
> Wall dimmers can be used for the control of furniture lights in the design of the house installation

> Length x width:	68.9 x 34.7 mm
> Height:	13.5 mm
> Degree of protection:	IP20
> Supplied with:	1 dimmer interface

	Cat. No.
Dimmer interface 1–10 V, modular	**833.89.144**

Use dimmer only, if monochrome lights are connected. Not suitable for the connection of converters or control devices. Direct connection to a normal household dimmer with a 1–10 V control output and connection via a lead with snap-in connector for modular switches to the switching input of a 12 V or 24 V Loox driver or a distributor.
Please order lead with snap-in connector for modular switches driver separately.

Lead with snap-in connector for modular switches

Length mm	Cat. No.
500	**833.89.140**
1000	**833.89.141**
2000	**833.89.142**

Drill hole Ø for plug: 12 mm

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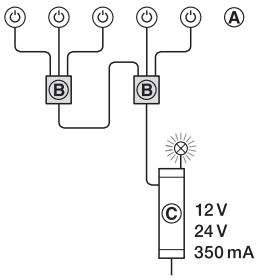
Multi switch box

Häfele Loox multi switch box



Ⓐ Switch
Ⓑ Multi switch box
Ⓒ Driver

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

> Function:
2 operating modes can be selected using an integrated toggle switch.
Cross circuit: On/off switching at different switches
Deactivated cross circuit: Switching on with switch 1, 2 or 3. For switching off, all switches that were switched on have to be activated again
> Material/colour: Plastic, black
> Length x width: 55 x 45 mm
> Height: 16 mm
> Degree of protection: IP20
> Supplied with: 1 multi switch box
With 1 m lead for switch

Standby power consumption W	Cat. No.
≤0.3	**833.89.066**

Lead from multi boxes to switching input

Length mm	Supplied with	Cat. No.
500	1 lead	**833.89.068**
2000	1 lead	**833.89.069**

Cannot be used in combination with dimmer 833.89.043
Drill hole Ø for plug: 12 mm
Alternative to the supplied 1 m lead
For multi switch box.
The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm.

Häfele Loox extension lead for switches

> Length: 2000 mm
> Supplied with: 1 lead

	Cat. No.
Extension lead for switch	**833.89.067**

Drill hole Ø for plug: 12 mm

Can also be used for the multi switch box and the multi driver box.

The maximum lead length of a switch is 6 m.

The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm.

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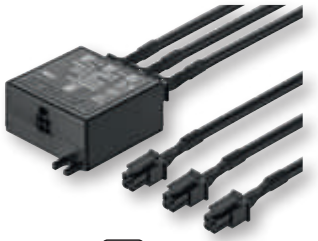
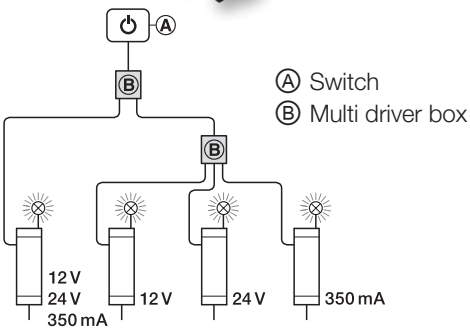
Multi driver box

Häfele Loox multi driver box





Up to 3 LED drivers with different voltages or distributors with a switching function can be controlled with 1 switch.
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.

> Finish: Plastic, black
> Length x width: 50 x 40 mm
> Height: 19 mm
> Supplied with: 1 multi driver box with 3 x 1 m lead for switch

Standby power consumption W	Cat. No.
1.5 W	**833.89.061**

Max. 3 x 75 W per multi driver box.

Lead for multi boxes to switching input

Length mm	Supplied with	Cat. No.
500	1 lead	**833.89.068**
2000	1 lead	**833.89.069**

Drill hole Ø for plug: 12 mm

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.

Häfele Loox extension lead for switches

> Length: 2000 mm
> Supplied with: 1 lead

	Cat. No.
Extension lead for switch	**833.89.067**

Drill hole Ø for plug: 12 mm

Can also be used for the multi switch box and the multi driver box.

The maximum lead length of a switch is 6 m.

The drill hole Ø for the male plug and the female socket of the switch leads is 12 mm.

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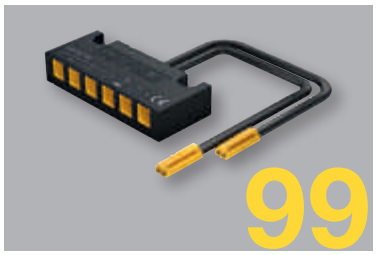
Networking

Häfele Connect Mesh 6-way distributor

6-way distributor > Page 98

Häfele Loox5 adapters

Multi-white adapter > Page 99
RGB adapter > Page 99



Häfele Connect Mesh remote controls

Remote control > Page 100
Push button, wall mounted > Page 100

Häfele Connect Mesh interface

2-channel interface > Page 101

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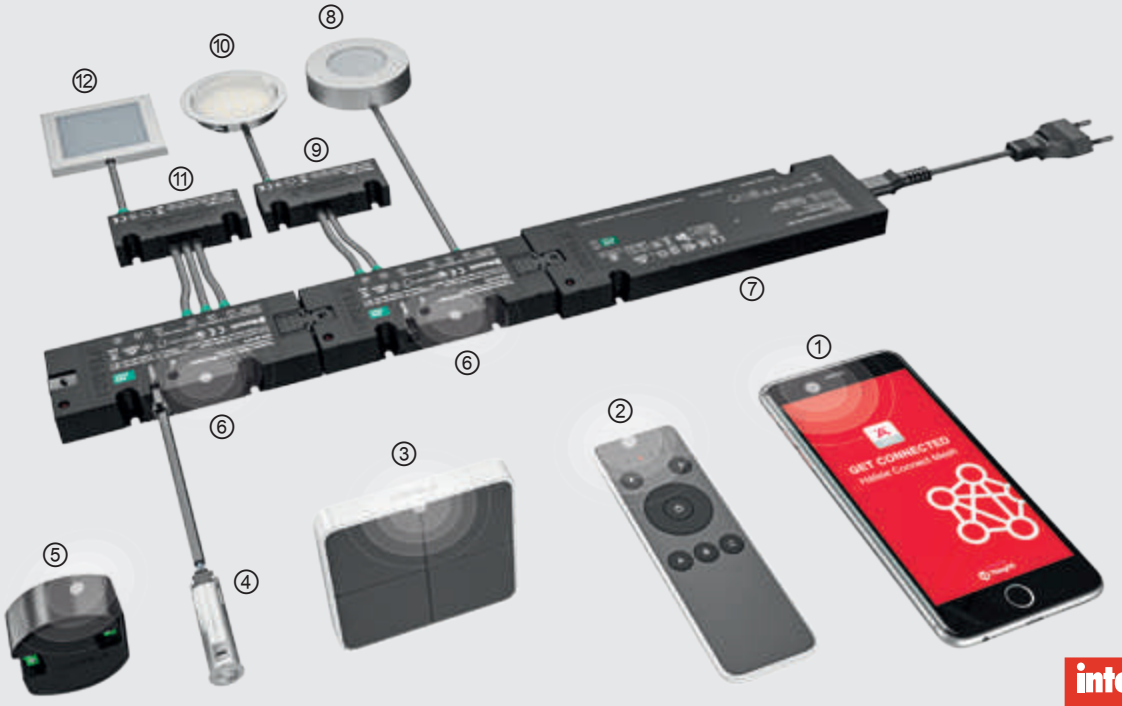
Networking

Häfele Connect Mesh

Häfele Connect Mesh consists of components for the smart control of lights and electrically operated fittings in furniture – with optional integration of the electrical installation of buildings.
Mesh means networking, and it uses the Bluetooth® Mesh network technology by the Bluetooth® Special Interest Group, which has the potential to become the global smart building standard.

The advantages are:
> Scalable: From the simple remote control of a furniture light to complex concepts in hotels or store fixtures
> Fail-safe: All nodes in the network forward control information
> Protected: Individual network key on your personal mobile device
> Standardised: Bluetooth® is a globally accepted and widely used technology



Häfele Connect Mesh active components
> Sensor
① Mobile device with Häfele Connect app
② Remote control
③ Push button, wall mounted
④ Loox switch (switching function programmable via app)
> Actuator and sensor
⑤ 2-channel interface: 2 switching input ports (switching function programmable via app) Output port 80–230 V
⑥ Häfele Connect Mesh 6-way distributor

Passive components without networking function
⑦ Driver
⑧ Monochrome light or electrically operated fitting
⑨ Multi-white adapter
⑩ Multi-white light
⑪ RGB adapter
⑫ RGB light

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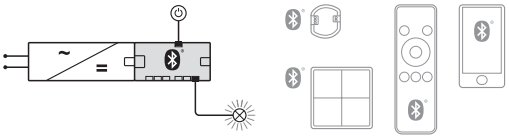
Distributor

Häfele Connect Mesh 6-way distributor, with switching function

> Control several light colours on one box!
> Each output port can be controlled individually.



MESH

Häfele Connect Mesh App

> Detects and reports new nodes in the network independently
> Intuitively assign functions to switches
> Set up light groups and scenes
> Share your protected access with others
> The Häfele Connect Mesh App is free for Apple iOS® and Android™.

> Area of application: For on/off switching and dimming (0–100%) of monochrome lights; or, in conjunction with adapters, for the operation of multi-white lights, RGB lights, and electrically operated fittings
> Version: With programmable switching input
For standard Loox switches (switching function programmable via app; each active component can control each passive component, see page 97)
> Material: Plastic
> Colour: Black
> Dim. (L x W x H): 120 x 50 x 16 mm
> Number of connections: 1x input port with box to box plug
1x output port with box to box socket
1x input port switch socket
6x output ports device sockets (2-pin), can be controlled from any active component of the network
> Supplied with: 1 distributor

Voltage	Max. connected wattage W	Cat. No.
5 12 V	60	850.00.042
5 24 V	90	850.00.043

The distance between the smartphone or tablet to the nearest Häfele Connect Mesh component is approx. 10 m. Multiple components create a network, and can also be placed approx. 10 m apart.

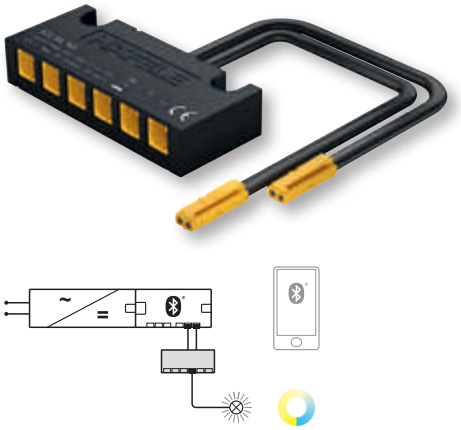
Please order adapter for multi-white lights, RGB lights, or electrically operated fittings separately, see page 99

6-way distributor for monochrome lights or other 2-pin devices, such as electrically operated fittings, see page 104

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Adapters

Häfele Loox5 multi-white adapter for Häfele Connect Mesh 6-way distributor

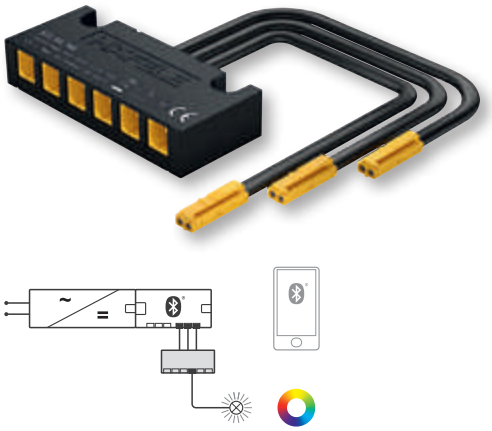


> Area of application: For connecting multi-white lights to the Häfele Connect Mesh 6-way distributor
> Material/colour: Plastic, black
> Dim. (L x W x H): 70 x 30 x 14 mm
> Number of connections: 2x input port with plug, monochrome
6x output ports device sockets, multi-white
> Supplied with: 1 distributor with 80 mm lead

Voltage	Max. connected wattage W	Cat. No.
5 12 V	60	833.95.745
5 24 V	90	833.77.830

1 multi-white adapter occupies 2 output ports at the 6-way distributor.

Häfele Loox5 RGB adapter for Häfele Connect Mesh 6-way distributor

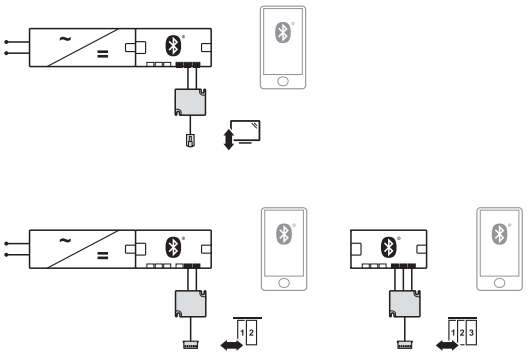


> Area of application: For connecting RGB lights to the Häfele Connect Mesh 6-way distributor
> Material/colour: Plastic, black
> Dim. (L x W x H): 70 x 30 x 14 mm
> Number of connections: 3x input port with plug, monochrome
6x output ports for device sockets, RGB
> Supplied with: 1 distributor with 80 mm lead

Voltage	Max. connected wattage W	Cat. No.
5 12 V	60	833.95.746
5 24 V	90	833.77.831

1 RGB adapter occupies 3 output ports at the 6-way distributor.

Häfele Connect Mesh adapter for electrically operated fittings



> Area of application: For connecting electrically operated fittings to the Häfele Connect Mesh 6-way distributor.
> Supplied with: 1 distributor

Voltage		Number of connections	Cat. No.
5 12 V	TV lift adapter	Occupies 2 output ports	850.00.057
	eDrive 2 doors adapter	Occupies 2 output ports	850.00.058
	eDrive 3 doors adapter	Occupies 3 output ports	850.00.059

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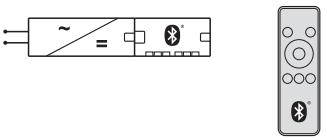
Remote controls

Häfele Connect Mesh remote control



Easiness
> One remote control for all applications: monochrome lights, multi-white lights, RGB lights and electrically operated fittings

> Area of application:	For controlling components at the Häfele Connect Mesh 6-way distributor
> Function:	Easy, direct pairing with a 6-way distributor or programming of buttons via app to control each node of the network
> Version:	Multi-function control panel
> Material:	Plastic
> Colour:	Top shell: Black, lower shell: White
> Dim. (L x W x H):	130 x 42 x 11 mm
> Supplied with:	1 remote control

	Cat. No.
Remote control	**850.00.040**

Please order Häfele Connect Mesh 6-way distributor separately. Please order 2 replaceable CR2032 button cell lithium batteries (2 x 002.99.032) separately.

Häfele Connect Mesh push button, wall mounted

> Area of application:	For controlling components on the 6-way distributor, Häfele Connect Mesh (all functions that are accessible by pressing or holding a button)
> Function:	Easy, direct pairing with a 6-way distributor or programming of buttons via app to control each node of the network
> Version:	4-button panel
> Material:	Plastic
> Colour:	Pushbutton: Black, frame: White
> Dim. (L x W x H):	81 x 81 x 12 mm
> Mounting:	For screw fixing or glue fixing to any wall
> Supplied with:	1 push button, wall mounted

	Cat. No.
Push button, wall mounted	**850.00.041**

Please order Häfele Connect Mesh 6-way distributor separately Please order 1 replaceable CR2430 button cell lithium battery (1 x 002.99.034) separately.

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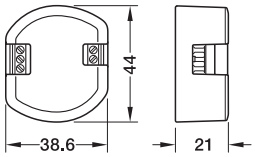
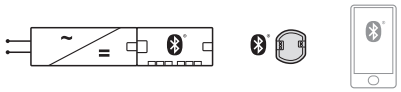
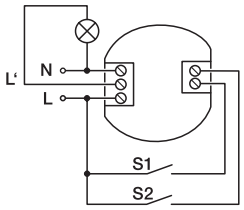
Interface electrical installation

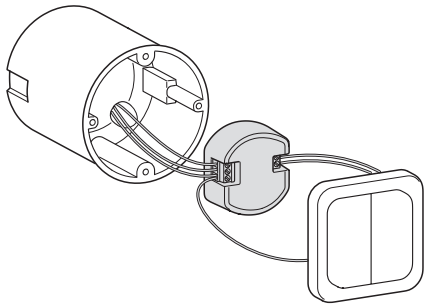
Häfele Connect Mesh 2-channel interface, with potential free relay







Installation example



Installation in a deep switch box

Design advantage

> Use switches in the design of the house installation for the control of furniture and room lights with Häfele Connect Mesh

> Area of application:	For on/off control of room lighting or other home installations via the Häfele Connect Mesh and for integrating conventional wall-mounted push buttons into the Häfele Connect Mesh
> Version:	Function programmable via app, each active component can control each passive component, see page 97.
> Number of connections:	2 switching input port for conventional wall-mounted push buttons (double-throw), 1 output port for on/off switching of 80–230 V, 3 A (can be controlled from any active component of the network)
> Material:	Plastic
> Dim. (L x W x H):	39 x 44 x 21 mm
> Mounting:	Suitable for installation in switch boxes. Recommended switch box depth: 60 mm.
> Supplied with:	1 2-channel interface

	Cat. No.
2-channel interface	**850.00.046**

Please order Häfele Connect Mesh 6-way distributor separately

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Distributing

Distributor

Häfele Loox5 6-way distributor > Page 104

Häfele Connect Mesh 6-way distributor. **Chapter Networking** > Page 96

Leads and connectors for LED strip lights

Leads for LED strip light monochrome, 5 mm > Page 109
Leads for LED strip light monochrome, 8 mm > Page 110
Leads for LED silicone strip light monochrome, 8 mm > Page 111
Leads for LED strip light multi-white, 8 mm > Page 112
Leads for LED strip lights RGB, 10 mm > Page 113

Extension leads

Extension lead mono-chrome/2-pin > Page 105
Extension lead multi-white > Page 105
Extension lead RGB > Page 105
4-way extension lead mono-chrome/2-pin > Page 106

Adapters

Adapters Loox/Loox5 > Page 114

Modular leads

Lead for modular lights and other modular devices > Page 107

Mains leads

Country-specific main leads, socket C7 > Page 116
Country-specific main leads, socket C13 > Page 116

Switch leads

Extension lead for switch > Page 108
Lead for modular switches > Page 108
Lead for switches > Page 108

Cable routing

Cable channel > Page 117
Cable cover > Page 117

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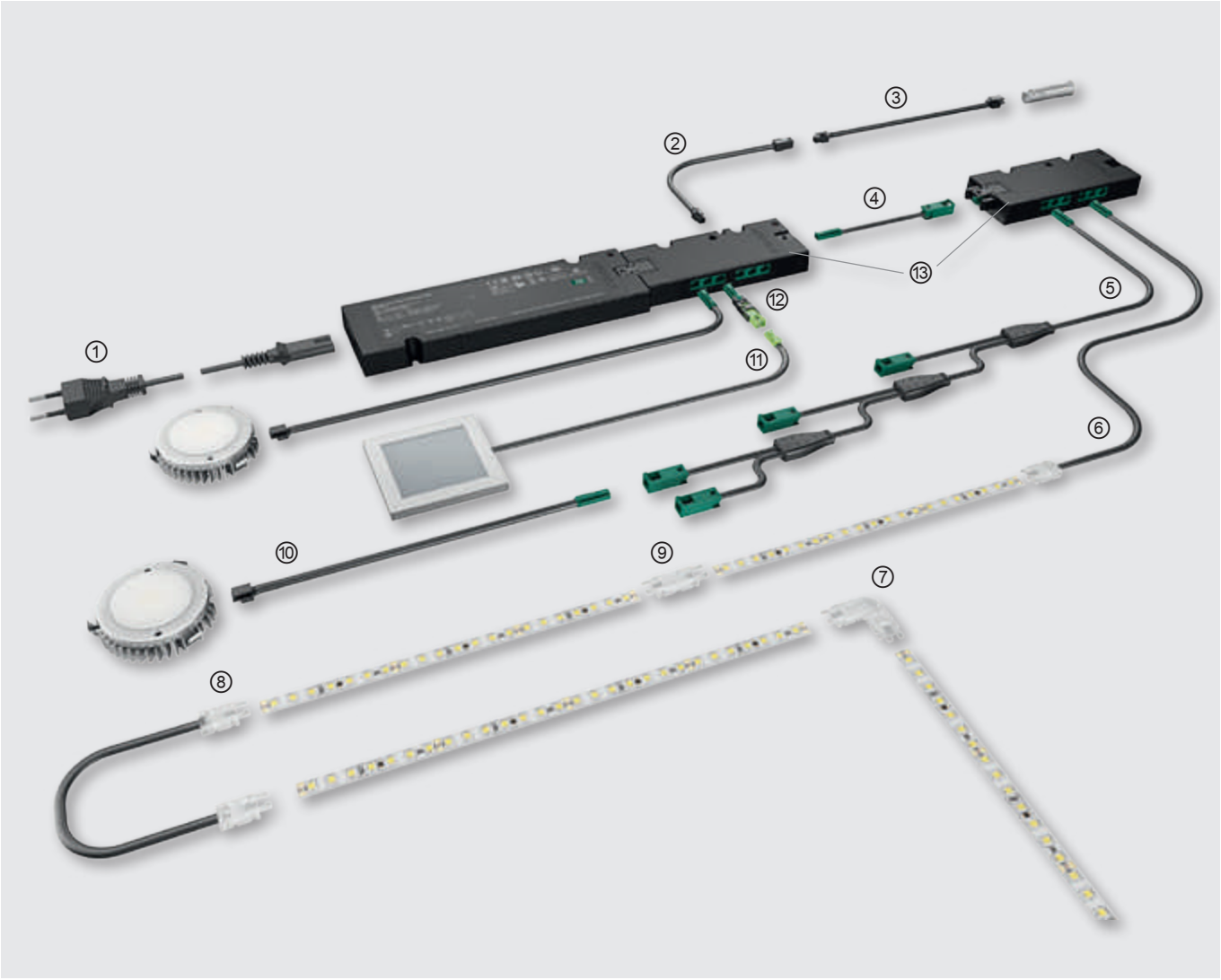
Distributing

Definition of terms



① Mains lead
② Extension lead for switch
③ Lead for modular switches
④ Extension lead
⑤ 4-way extension lead
⑥ Lead for LED strip light
⑦ Corner connector for LED strip light
⑧ Interconnecting lead for LED strip light
⑨ Clip connector for LED strip light
⑩ Lead for modular lights
⑪ Light with permanent lead
⑫ Adapter
⑬ 6-way distributor

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Distributors

Häfele Loox5 box to box 6-way distributor

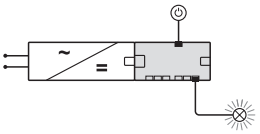
Plug connection box to box

> The connection of the distributors with the driver can be done via a box to box plug-in connection or via an extension lead. Any number of distributors can be connected to the driver. Observe maximum wattage!

> **Häfele Connect Mesh 6-way distributor: Chapter Networking,** see page 98

Häfele Loox5 box to box 6-way distributor with switching function

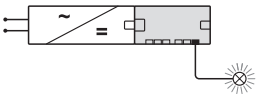
1 switch controls all output ports



> Material: Plastic
> Colour: Black
> Dim. (L x W x H): 120 x 50 x 16 mm
> Number of connections: 1 x input port with box to box plug
1 x output port with box to box socket
1 x input port switch socket
6 x output ports device sockets
> Supplied with: 1 distributor

Voltage	Max. connected wattage W	Box to box with switching function
5 12 V	60	**833.95.748**
5 24 V	90	**833.77.833**

Häfele Loox5 box to box 6-way distributor without switching function

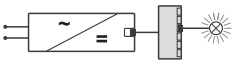


> Material: Plastic
> Colour: Black
> Dim. (L x W x H): 120 x 50 x 16 mm
> Number of connections: 1 x input port with box to box plug
1 x output port with box to box socket
6 x output ports device sockets
> Supplied with: 1 distributor

Voltage	Max. connected wattage W	Box to box without switching function
5 12 V	60	**833.95.747**
5 24 V	90	**833.77.832**

Häfele Loox5 6-way distributor without switching function

Can also be connected to
6-way distributor



> Material: Plastic
> Colour: Black
> Dim. (L x W x H): 70 x 30 x 14 mm
> Number of connections: 1 x input port with box to box plug
1 x output port with box to box socket
6 x output ports device sockets
> Supplied with: 1 distributor

Voltage	Max. connected wattage W	Without switching function
5 12 V	60	**833.95.786**
5 24 V	90	**833.77.839**

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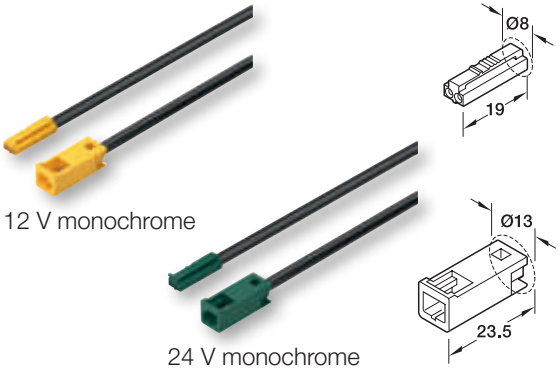
Extension leads

Häfele Loox5 extension leads

Maximum lead length from the Loox5 driver to the device is 10 m.

Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. These lead to visible loss of brightness in the lights. The illuminance listed with the lights has been determined with the rated output voltage of the driver. (12 V or 24 V).

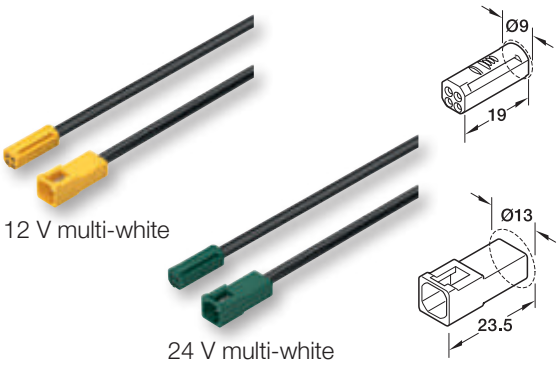
Häfele Loox5 extension leads monochrome



> Area of application: For monochrome lights and other 2-pin devices and distributors
> Material: Plastic
> Current carrying capacity: Max. 5 A
> Drill hole Ø: Plug 8 mm, socket 13 mm
> Supplied with: 1 extension lead, 1 plug/1 socket

Type of cable 20	Voltage	500 mm	1000 mm	2000 mm
Monochrome (2-wire 18 AWG)	5 12 V	833.95.712	833.95.713	833.95.714
	5 24 V	833.95.719	833.95.718	833.95.717

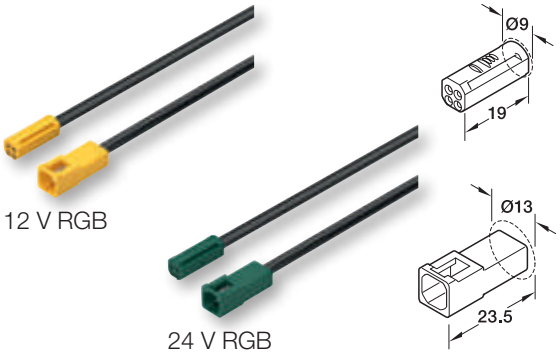
Häfele Loox5 extension leads multi-white



> Area of application: For multi-white lights
> Material: Plastic
> Current carrying capacity: Max. 3.5 A
> Drill hole Ø: Plug 9 mm, socket 13 mm
> Supplied with: 1 extension lead, 1 plug/1 socket

Type of cable	Voltage	500 mm	1000 mm	2000 mm
Multi-white (3-wire 20 AWG)	5 12 V	–	–	833.95.715
	5 24 V	–	–	833.95.720

Häfele Loox5 extension leads RGB



> Area of application: For RGB lights
> Material: Plastic
> Current carrying capacity: Max. 3.5 A
> Drill hole Ø: Plug 9 mm, socket 13 mm
> Supplied with: 1 extension lead, 1 plug/1 socket

Type of cable	Voltage	500 mm	1000 mm	2000 mm
RGB (4-wire 20 AWG)	5 12 V	–	–	833.95.716
	5 24 V	–	–	833.95.721

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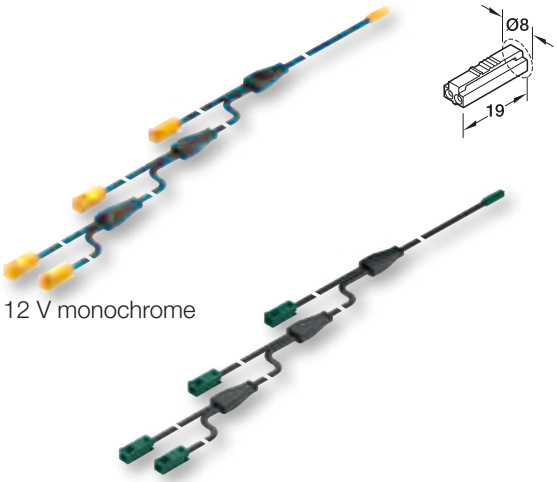
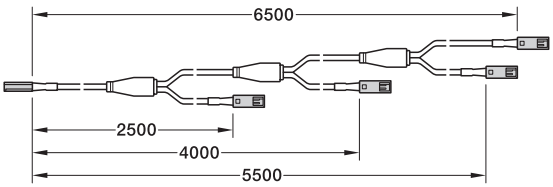
Extension leads

Häfele Loox5 4-way extension leads



12 V monochrome

24 V monochrome



> Area of application: For monochrome lights and other 2-pin devices and distributors
> Current carrying capacity: Max. 5 A
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 extension lead
1 plug/4 sockets

Type of cable	Voltage	Length mm	2000 mm
Monochrome (2-wire 18 AWG)	5 12 V	6500	833.95.742
	5 24 V		833.95.743

Maximum lead length from the Loox5 driver to the device is 10 m. Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. These lead to visible loss of brightness in the lights. The illuminance listed with the lights has been determined with the rated output voltage of the driver.
(12 V or 24 V).

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

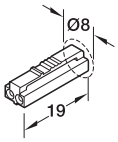
Leads

Modular design

Häfele Loox5 lead for modular lights and other modular devices

12 V monochrome

24 V monochrome



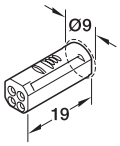
> Area of application: For monochrome lights and other 2-pin devices and distributors
> Version: With snap-in connector
> Current carrying capacity: Max. 1.5 A
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 lead plug/plug

Type of cable	Voltage	Length mm	Cat. No.
Monochrome (2-wire 24 AWG)	5 12 V	1000	**833.95.789**
		2000	**833.95.788**
	5 24 V	2000	**833.95.791**

Häfele Loox5 lead for modular multi-white lights

12 V multi-white

24 V multi-white



> Area of application: Modular multi-white lights
> Version: With snap-in connector
> Current carrying capacity: Max. 1.5 A
> Drill hole Ø: Plug 9 mm
> Supplied with: 1 lead plug/plug

Type of cable	Voltage	Length mm	Cat. No.
Multi-white (3-wire 24 AWG)	5 12 V	2000	**833.95.787**
	5 24 V	2000	**833.95.790**

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Switch leads

Häfele Loox extension lead for switches

> Area of application: Switches and modular switches
> Drill hole Ø: Plug 12 mm
> Supplied with: 1 extension lead plug/socket

Length mm	Cat. No.
2000	**833.89.067**

The maximum lead length of a switch is 6 m.

Häfele Loox lead for modular switches

> Area of application: Modular switches
> Version: With snap-in connector
> Drill hole Ø: Plug 12 mm
> Supplied with: 1 lead plug/plug

Length mm	Cat. No.
500	**833.89.140**
1000	**833.89.141**
2000	**833.89.142**

Häfele Loox lead for multi boxes to switching input

> Area of application: Multi switch box and multi driver box
> Drill hole Ø: Plug 12 mm
> Supplied with: 1 lead plug/plug

Length mm	Cat. No.
500	**833.89.068**
2000	**833.89.069**

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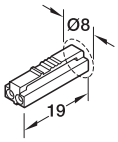
Leads

For LED strip light monochrome, 5 mm

Häfele Loox5 lead for LED strip light monochrome, 5 mm

12 V monochrome

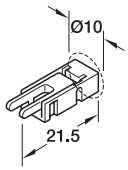
24 V monochrome



> Current carrying capacity: Max. 3.5 A
> Width: Clip 7 mm
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 lead plug/clip

Type of cable	Voltage	Length mm	Cat. No.
Monochrome (2-wire 20 AWG)	5 12 V	2000	**833.95.705**
	5 24 V	2000	**833.95.711**

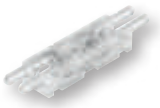
Häfele Loox5 interconnecting lead for LED strip light monochrome, 5 mm

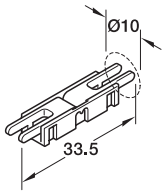


> Current carrying capacity: Max. 3.5 A
> Width: Clip 7 mm
> Drill hole Ø: Clip 10 mm
> Supplied with: 1 interconnecting lead clip/clip

Type of cable	Length mm	Cat. No.
Monochrome (2-wire 20 AWG)	50	**833.89.194**
	500	**833.89.195**
	2000	**833.89.196**

Häfele Loox5 clip connector for LED strip light monochrome, 5 mm





> Current carrying capacity: Max. 3.5 A
> Width: Clip 7 mm
> Drill hole Ø: Clip 10 mm
> Supplied with: 1 clip connector

Length mm	Cat. No.
33.5	**833.89.207**

Häfele Loox5 corner connector for LED strip light monochrome, 5 mm

> Current carrying capacity: Max. 3.5 A
> Supplied with: 1 corner connector

Length mm	Width mm	Cat. No.
21	21	**833.89.190**

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Leads

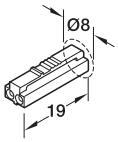
For LED strip light monochrome, 8 mm

ALSO FOR CONSTANT CURRENT STRIP LIGHTS

Häfele Loox5 lead for LED strip light monochrome, 8 mm

12 V monochrome

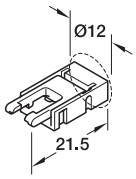
24 V monochrome



> Current carrying capacity: Max. 5 A
> Width: Clip 10 mm
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 lead plug/clip

Type of cable	Voltage	Length mm	Cat. No.
Monochrome (2-wire 18 AWG)	5 12 V	100	833.93.736
		500	833.95.701
		2000	833.95.700
	5 24 V	100	833.75.743
		500	833.95.707
		2000	833.95.706

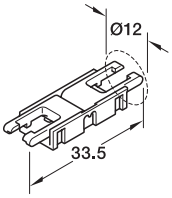
Häfele Loox5 interconnecting lead for LED strip light monochrome, 8 mm



> Current carrying capacity: Max. 5 A
> Width: Clip 10 mm
> Drill hole Ø: Clip 12 mm
> Supplied with: 1 lead clip/clip

Type of cable	Length mm	Cat. No.
Monochrome (2-wire 18 AWG)	50	833.89.191
	500	833.89.192
	2000	833.89.193

Häfele Loox5 clip connector for LED strip light monochrome, 8 mm



> Current carrying capacity: Max. 5 A
> Width: Clip 10 mm
> Drill hole Ø: Clip 12 mm
> Supplied with: 1 clip connector

Length mm	Cat. No.
33.5	833.89.206

Häfele Loox5 corner connector for LED strip light monochrome, 8 mm

> Current carrying capacity: Max. 5 A
> Supplied with: 1 corner connector

Length mm	Width mm	Cat. No.
24	24	833.89.187

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

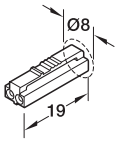
Leads

For LED silicone strip light monochrome, 8 mm

Häfele IP44 Loox5 lead for LED silicone strip light monochrome, 8 mm

12 V monochrome

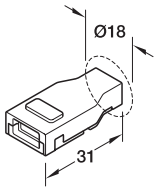
24 V monochrome



> Current carrying capacity: Max. 5 A
> Width: Silicone plug 15 mm
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 lead plug/clip

Type of cable	Voltage	Length mm	Cat. No.
Monochrome (2-wire 18 AWG)	5 12 V	2000	**833.95.703**
	5 24 V	2000	**833.95.709**

Häfele IP44 Loox5 interconnecting lead for LED silicone strip light monochrome, 8 mm



> Current carrying capacity: Max. 5 A
> Width: Clip 15 mm
> Drill hole Ø: Clamp 18 mm
> Supplied with: 1 lead clip/clip

Type of cable	Length mm	Cat. No.
Monochrome (2-wire 18 AWG)	50	**833.89.203**
	500	**833.89.204**
	2000	**833.89.205**

The leads and clips on page 110 can be used to make IP20 connections for the monochrome 8 mm silicon strip.

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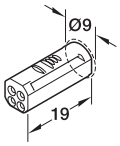
Leads

For LED strip light multi-white, 8 mm

Häfele Loox5 lead for LED strip light multi-white, 8 mm

12 V multi-white

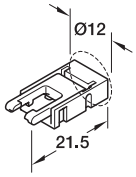
24 V multi-white



> Current carrying capacity: Max. 3.5 A
> Width: Clip 10 mm
> Drill hole Ø: Plug 9 mm
> Supplied with: 1 lead plug/clip

Type of cable	Voltage	Length mm	Cat. No.
Multi-white (3-wire 20 AWG)	5 12 V	2000	**833.95.702**
	5 24 V	2000	**833.95.708**

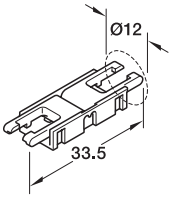
Häfele Loox5 interconnecting lead for LED strip light multi-white, 8 mm



> Current carrying capacity: Max. 3.5 A
> Width: Clip 10 mm
> Drill hole Ø: Clip 12 mm
> Supplied with: 1 lead clip/clip

Type of cable	Length mm	Cat. No.
Multi-white (3-wire 20 AWG)	50	**833.89.197**
	500	**833.89.198**
	2000	**833.89.199**

Häfele Loox5 clip connector for LED strip light multi-white, 8 mm



> Current carrying capacity: Max. 3.5 A
> Width: Clip 10 mm
> Drill hole Ø: Clip 12 mm
> Supplied with: 1 clip connector

Length mm	Cat. No.
33.5	**833.89.208**

Häfele Loox5 corner connector for LED strip light multi-white, 8 mm

> Current carrying capacity: Max. 3.5 A
> Supplied with: 1 corner connector

Length mm	Width mm	Cat. No.
24	24	**833.89.188**

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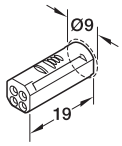
Leads

For LED strip light RGB, 10 mm

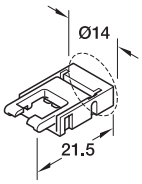
Häfele Loox5 lead for LED strip light RGB, 10 mm



> Current carrying capacity: Max. 3.5 A
> Width: Clip 12 mm
> Drill hole Ø: Plug 9 mm
> Supplied with: 1 lead plug/clip

Type of cable	Voltage	Length mm	Cat. No.
RGB (4-wire 20 AWG)	5 12 V	2000	833.95.704
	5 24 V	2000	833.95.710

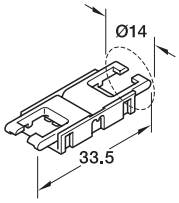
Häfele Loox5 interconnecting lead for LED strip light RGB, 10 mm



> Current carrying capacity: Max. 3.5 A
> Width: Clip 12 mm
> Drill hole Ø: Clip 14 mm
> Supplied with: 1 lead clip/clip

Type of cable	Length mm	Cat. No.
RGB (4-wire 20 AWG)	50	833.89.200
	500	833.89.201
	2000	833.89.202

Häfele Loox5 clip connector for LED strip light RGB, 10 mm



> Current carrying capacity: Max. 3.5 A
> Width: Clip 12 mm
> Drill hole Ø: Clip 14 mm
> Supplied with: 1 clip connector

Length mm	Cat. No.
33.5	833.89.209

Häfele Loox5 corner connector for LED strip light RGB, 10 mm

> Current carrying capacity: Max. 3.5 A
> Supplied with: 1 corner connector

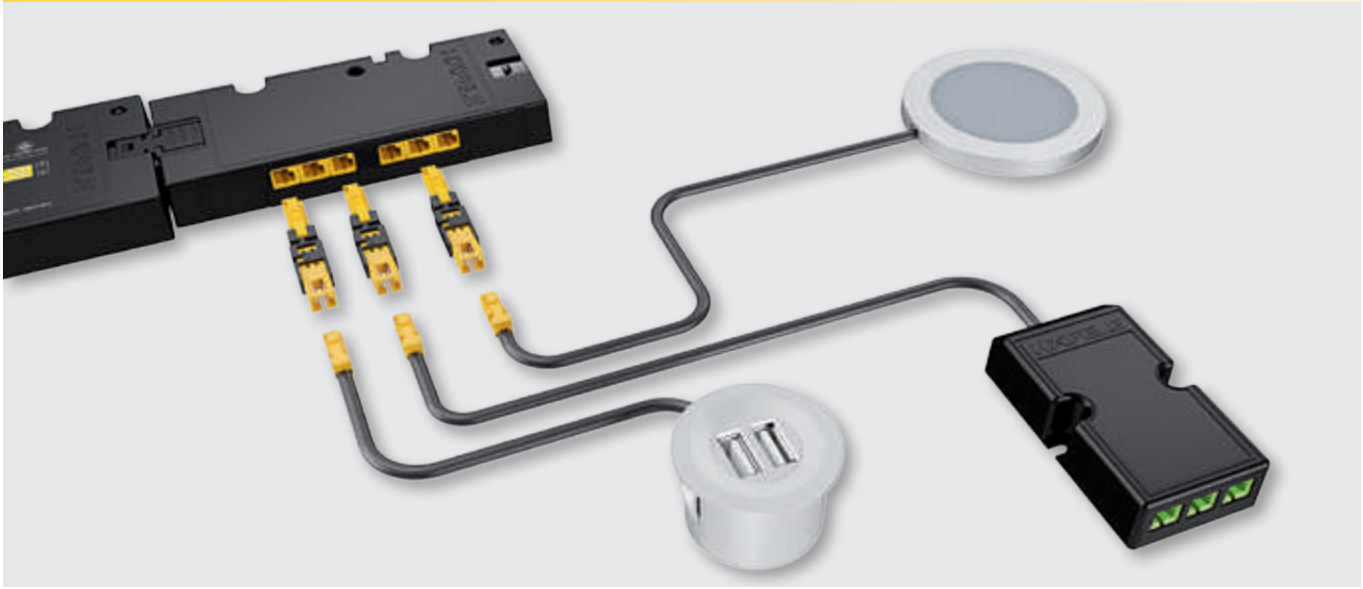
Length mm	Width mm	Cat. No.
26	26	833.89.189

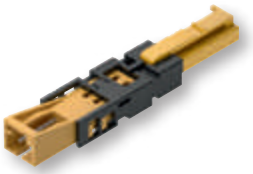
LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Adapter

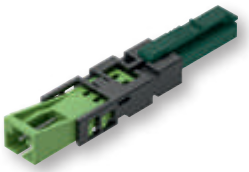
Loox5 driver > Loox device

Adapter for devices with Loox plug for connecting to Loox5 driver





12 V: Loox socket/Loox5 plug



24 V: Loox socket/Loox5 plug

> Area of application:	For connecting Loox devices to Loox5 drivers or Loox5 distributors. Suitable for all devices with Loox plug, e.g. monochrome lights, distributors, charging stations, colour mixers for multi-white and RGB as well as electrically operated fittings, converters, etc.
> Length:	50 mm
> Current carrying capacity:	Max. 3.5 A
> Drill hole Ø:	12 mm
> Packing	6 pieces

Device	Driver	Max. connected wattage W	Cat. No.
12 V	5 12 V	Max. 42	**833.95.753**
24 V	5 24 V	Max. 84	**833.77.838**

Not suitable for 3-pin Loox plugs (multi-white) or 4-pin Loox plugs (RGB).
The current carrying capacity is limited to 3.5 A.
Observe maximum wattage!

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Adapter

Loox driver > Loox5 device

Adapter for devices with Loox5 plug for connecting to Loox driver

12 V: Loox5 socket/Loox plug

24 V: Loox5 socket/Loox plug

> Area of application: For connecting Loox5 devices to Loox drivers or Loox distributors. Suitable for all devices with 2-pin Loox5 plug, e.g. monochrome lights, distributors, charging stations, etc.
> Length: 45 mm
> Current carrying capacity: Max. 3.5 A
> Drill hole Ø: 13 mm
> Packing 6 pieces

Device	Driver	Max. connected wattage W	Cat. No.
5 12 V	12 V	Max. 42	833.95.752
5 24 V	24 V	Max. 84	833.77.837

Not suitable for 4-pin Loox5 plugs (multi-white or RGB).
The current carrying capacity is limited to 3.5 A.
Observe maximum wattage!

Adapter leads for LED strip lights with Loox5 clip for connecting to Loox driver or colour mixer

Device	Driver/colour mixer	Length mm	for LED strip light	Cat. No.
5 12 V	12 V	2000	monochrome 5 mm monochrome 8 mm multi-white 8 mm RGB 10 mm	833.72.742 833.72.716 833.72.717 833.72.718
5 24 V	24 V	2000	monochrome 5 mm monochrome 8 mm multi-white 8 mm RGB 10 mm	833.75.732 833.75.705 833.75.706 833.75.707

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Mains leads

Country-specific main leads, socket at cable: C7

833.89.000 UK

833.89.001 AU

833.89.002 EU

833.89.003 US

833.89.016 JP

833.89.005 CN

833.89.006 KR

833.89.007 TW

833.89.009 EU

833.89.050 US

Plug design										
Description	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
Material/colour	Plastic, black									
Supplied with	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece
Cat. No.	**833.89.000**	**833.89.001**	**833.89.002**	**833.89.003**	**833.89.016**	**833.89.005**	**833.89.006**	**833.89.007**	**833.89.009**	**833.89.050**

Country-specific main leads, socket at cable: C13

833.89.256 UK

833.89.257 AU

833.89.258 EU

833.89.259 US

833.89.260 JP

833.89.261 CN

833.89.262 KR

833.89.263 TW

833.89.265 EU

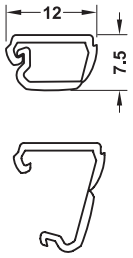
833.89.264 US

Plug design										
Description	UK	AU	EU	US	JP	CN	KR	TW	EU	US
Length (mm)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Material/colour	Plastic, black									
Supplied with	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece	1 piece
Cat. No.	**833.89.256**	**833.89.257**	**833.89.258**	**833.89.259**	**833.89.260**	**833.89.261**	**833.89.262**	**833.89.263**	**833.89.265**	**833.89.264**

LOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Cable routing

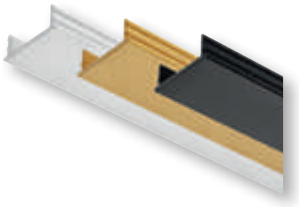
Häfele Loox cable channel

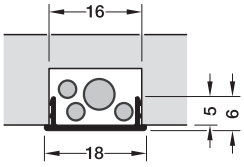


> Dim. (L x W x H): 2500 x 12 x 7.5 mm
> Application: Concealing visible cables in furniture and cabinets
> Supplied with: 1 cable channel with adhesive tape

Finish	Cat. No.
Black, RAL 9005	**833.89.033**
Brown, RAL 8007	**833.89.023**
White, RAL 9010	**833.89.013**

Häfele Loox cable cover





> Material: Plastic
> Length: 2,500 mm
> Application: For concealing visible cables in furniture and cabinets, for recess mounting
> Supplied with: 1 profile

Finish	Cat. No.
Black, RAL 9005	**833.74.797**
Brown, RAL 8007	**833.74.796**
White, RAL 9010	**833.74.795**

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Supplying

Häfele Loox5 drivers 12 V

Häfele Loox wall plug drivers 12 V	> Page 120
Häfele Loox leads 12 V	> Page 120
Constant voltage 12 V	> Page 121
Country-specific main leads	> Page 121

Häfele Loox5 drivers 24 V

Constant voltage 24 V	> Page 122
Country-specific main leads	> Page 122

Häfele Loox5 drivers 350 mA

Häfele Loox driver 350 mA	> Page 124
Country-specific main leads	> Page 124

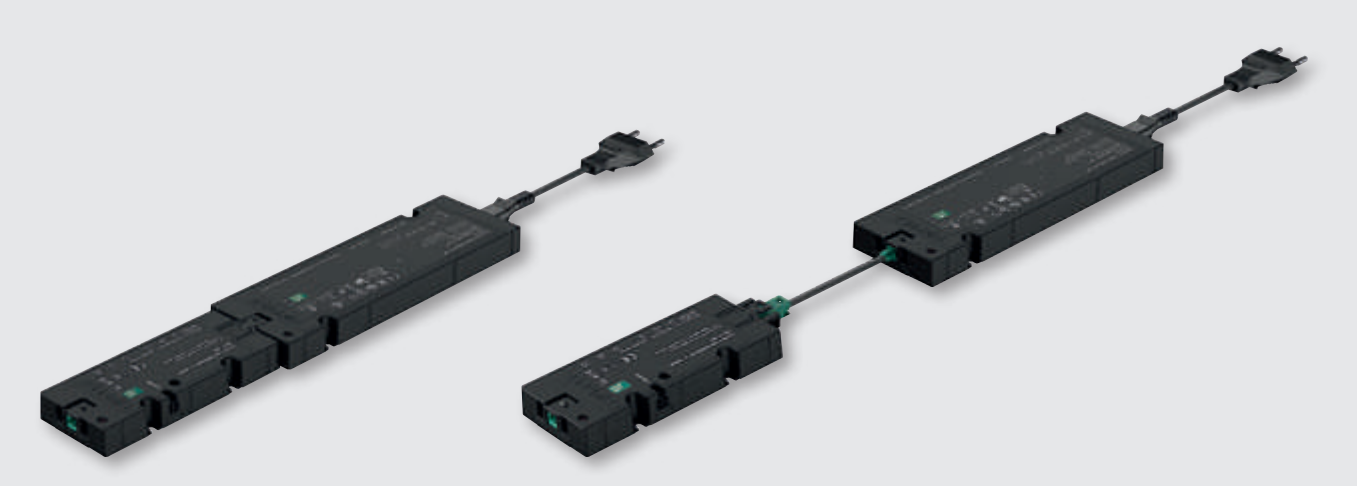
Häfele Loox converters

Converter 24 V to 12 V	> Page 125
Converter 350 mA to 12 V	> Page 125
Converter 12 V to 24 V	> Page 125

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Supplying

Central or decentralised supply

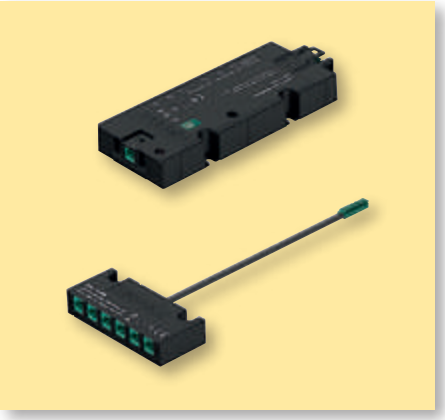


Central and compact
Driver with 6-way distributor via box to box plug-in connection for compact dimensions.

Decentralised
Driver at the entry point of a given socket position. Decentralised 6-way distributor via cable connection.

3-level control concept

Loox5 specialises the tasks: on the one hand, professional drivers with top performance in terms of energy efficiency, life time, overload protection, and rectification, and on the other hand, the 6-way distributor with a 3-level control concept that can be combined as desired:



Level 1
Distributor without switching function

Level 2
Distributor with switching function

Level 3
Distributor with switching function and Bluetooth® chip for the network control in the Häfele Connect Mesh

> 6-way distributors see page 104
> Häfele Connect Mesh 6-way distributor see page 98
> Extension leads see page 105

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Drivers

12 V

Häfele Loox wall plug driver 12 V

Driver 15 W EU
833.74.935

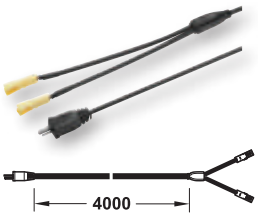
Driver 15 W US
833.74.936

Driver 15 W UK
833.74.958

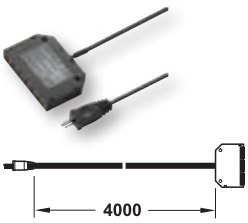
> Colour: Black
> Degree of protection: IP20
> Input voltage: 100–240 V~; 50–60 Hz
> Output voltage: DC 12 V
> Standby power consumption: 0.1 W
> Supplied with: 1 wall plug driver

Plug design/ designation	Output power W	Dim. (L x W x H) mm	Cat. No.
EU	6	61 x 37 x 57	**833.74.933**
	15	78 x 46 x 68	**833.74.935**
	27	84 x 50 x 72	**833.74.937**
US	6	61 x 37 x 43	**833.74.934**
	15	78 x 46 x 54	**833.74.936**
UK	6	61 x 50 x 53	**833.74.957**
	15	78 x 49 x 60	**833.74.958**
	27	84 x 50 x 64	**833.74.959**

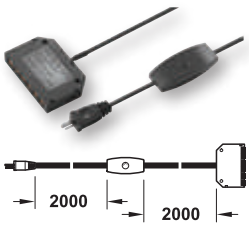
Häfele Loox leads 12 V



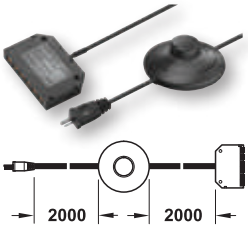
833.74.749



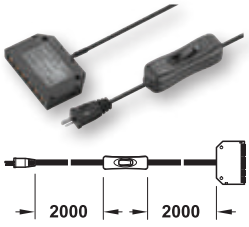
833.74.748



833.74.709



833.74.747



833.74.746

12 V	Plug design/ designation	Cat. No.
	4 m lead 2.5 A/22 AWG with 2 slots	**833.74.749**
	4 m lead 2.5 A/22 AWG with 6-way distributor	**833.74.748**
	4 m lead 2.5 A/22 AWG with dimmer and 6-way distributor	**833.74.709**
	4 m lead 2.5 A/22 AWG with foot switch and 6-way distributor	**833.74.747**
	4 m lead 2.5 A/22 AWG with rocker switch and 6-way distributor	**833.74.746**

5 12 V 12 V All sockets for 12 V Loox. Please order 6-piece adapter set 833.95.752 for Loox5 devices separately.

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

SELV IP20

Drivers

12 V

Häfele Loox5 driver constant voltage 12 V

EXTRA SLIM

- > Version: With overload protection
- > Colour: Black
- > Degree of protection: IP20
- > Input voltage: 100–240 V~; 50–60 Hz
- > Output voltage: DC 12 V
- > Number of connections: 1x socket Loox5 12 V
- > Life time: >50,000 hours
- > Supplied with: 1 driver with mounting accessories

5 12 V	Output power W	Output current A	Standby power consumption W	Dim. (L x W x H) mm	Cat. No.
1	20	1.67	≤0,2 W	140 x 50 x 16	**833.95.000**
2	40	3.33	≤0.3 W	191 x 60 x 16	**833.95.002**
3	60	5.00	≤0.3 W	230 x 70 x 16	**833.95.003**

Ambient temperature –25 °C to +45 °C (60 W: 40 °C)
Ensure that there is a sufficient air supply and circulation at the mounting location.

Maximum lead length from the Loox5 driver to the device is 10 m. Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. These lead to visible loss of brightness in the lights. The illuminance listed with the lights has been determined with the rated output voltage of the driver.
(12 V or 24 V).

Country-specific main leads – 2 metre lead length, socket at the cable: C7

Plug design										
Description	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
Cat. No.	**833.89.000**	**833.89.001**	**833.89.002**	**833.89.003**	**833.89.016**	**833.89.005**	**833.89.006**	**833.89.007**	**833.89.009**	**833.89.050**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

SELV IP20

Drivers

24 V

Häfele Loox5 driver constant voltage 24 V

EXTRA SLIM

- > Version: With overload protection
- > Colour: Black
- > Degree of protection: IP20
- > Input voltage: 100–240 V~; 50–60 Hz
- > Output voltage: DC 24 V
- > Number of connections: 1x socket Loox5 24 V
- > Life time: >50,000 hours
- > Supplied with: 1 driver with mounting accessories

5 24 V	Output power W	Output current A	Standby power consumption W	Dim. (L x W x H) mm	Cat. No.
1	20	0.83	≤0,2 W	140 x 50 x 16	**833.95.008**
2	40	1.67	≤0.3 W	191 x 60 x 16	**833.95.010**
3	90	3.75	≤0.3 W	316 x 70 x 16	**833.95.011**

Ambient temperature –25 °C to +45 °C
Ensure that there is a sufficient air supply and circulation at the mounting location.

Maximum lead length from the Loox5 driver to the device is 10 m. Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. These lead to visible loss of brightness in the lights. The illuminance listed with the lights has been determined with the rated output voltage of the driver.
(12 V or 24 V).

Country-specific main leads – 2 metre lead length, socket at the cable: C7

Plug design										
Description	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
Cat. No.	**833.89.000**	**833.89.001**	**833.89.002**	**833.89.003**	**833.89.016**	**833.89.005**	**833.89.006**	**833.89.007**	**833.89.009**	**833.89.050**

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SELV IP20

Drivers

24 V

<Zwischenüberschrift> noch in Übersetzung

<Zwischenüberschrift> in Übersetzung

Häfele Loox5 driver constant voltage 24 V

Driver 240 W
200–240 V~,
833.95.012

Driver 270 W
100–120 V~,
833.95.022

- > Version: With overload protection
- > Colour: Black
- > Degree of protection: IP20
- > Standby power consumption: <0.5 W
- > Output voltage: DC 24 V
- > Dim. (L x W x H): 234 x 75 x 38 mm
- > Life time: >50,000 hours
- > Supplied with: 1 driver with mounting accessories

5 24 V	Input voltage	Output power W	Output current A	Number of connections Loox5 24 V	Cat. No.
4	200–240 V~, 50–60 Hz	240 (2 x 120)	2 x 5	2x socket	**833.95.012**
5	100–120 V~, 50–60 Hz	270 (3 x 90)	3 x 3,75	3x socket	**833.95.022**

<!> in Übersetzung

Ambient temperature –25 °C to +45 °C (270 W: 40 °C)
Ensure that there is a sufficient air supply and circulation at the mounting location.

Maximum lead length from the Loox5 driver to the device is 10 m. Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. These lead to visible loss of brightness in the lights. The illuminance listed with the lights has been determined with the rated output voltage of the driver.
(12 V or 24 V).

Country-specific main leads – 2 metre lead length, socket at the cable: C13

Plug design										
Description	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
Cat. No.	**833.89.256**	**833.89.257**	**833.89.258**	**833.89.259**	**833.89.260**	**833.89.261**	**833.89.262**	**833.89.263**	**833.89.265**	**833.89.264**

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Drivers

350 mA

Häfele Loox driver 350 mA

> Colour: Black
> Degree of protection: IP20
> Input voltage: 100–240 V~; 50–60 Hz
> Constant current: DC 350 mA
> Standby power consumption: <0.5 W
> Supplied with: 1 driver with mounting accessories

Number of connections	Output power W	Dim. (L x W x H) mm	Cat. No.
4 x devices, 1 x switch	>1.5–4	140 x 43 x 20	**833.80.900**
10 x devices, 1 x switch	>5–10	195 x 43 x 28	**833.80.901**

Cable bridge (replacement) Cat. No. 833.80.720

Note minimum output power.
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 cable bridge. Bridge connectors are supplied.
Ensure that there is a sufficient air supply and circulation at the mounting location.
Ambient temperature –10 °C to +40 °C

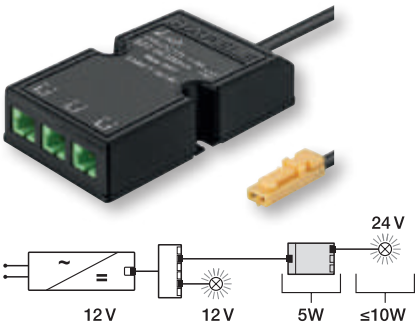
Country-specific main leads – 2 metre lead length, socket at the cable: C7

Plug design										
Description	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
Cat. No.	**833.89.000**	**833.89.001**	**833.89.002**	**833.89.003**	**833.89.016**	**833.89.005**	**833.89.006**	**833.89.007**	**833.89.009**	**833.89.050**

LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

Converters

Häfele Loox converter 24 V to 12 V – for connecting 24 V lights to the 12 V system



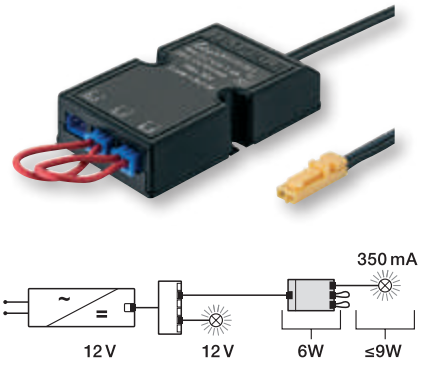
12 V 5 12 V Loox5 12 V driver see page 121
Please order 6-piece adapter set 833.95.753 separately.

> Application: Connecting 24 V lights to the 12 V system
> Wattage: Input 15 W, output 10 W
> Primary side: DC 12 V
> Secondary side: DC 24 V
> Number of output ports: 3 connections for 24 V lights
> Supplied with: 1 converter with 200 mm lead

Dim. (L x W x H) mm	Standby power consumption W	Cat. No.
61 x 34 x 15	0.3	**833.77.934**

Maximum possible connected rating of 10 W per converter.

Häfele Loox converter 350 mA to 12 V – for connecting 350 mA lights to the 12 V system



12 V 5 12 V Loox5 12 V driver see page 85
Please order 6-piece adapter set 833.95.753 separately.

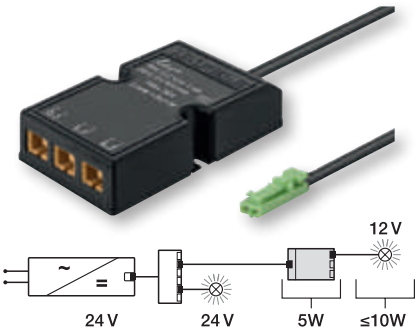
> Application: Connecting 350 mA lights to the 12 V system
> Wattage: Input 15 W, output 9 W
> Primary side: DC 12 V
> Secondary side: DC 350 mA (min. 1 W, max. 9 W)
> Number of output ports: 3 connections for 350 mA lights
> Supplied with: 1 converter with 200 mm lead

Dim. (L x W x H) mm	Standby power consumption W	Cat. No.
61 x 34 x 15 mm	0.2	**833.80.912**

Maximum possible connected rating of 9 W per converter.

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

Häfele Loox converter 12 V to 24 V – for connecting 12 V lights to the 24 V system



24 V 5 24 V Loox5 24 V driver see page 86
Please order 6-piece adapter set 833.77.838 separately.

> Application: Connecting 12 V lights to the 24 V system
> Wattage: Input 15 W, output 10 W
> Primary side: DC 24 V
> Secondary side: DC 12 V
> Number of output ports: 3 connections for 12 V lights
> Supplied with: 1 converter with 200 mm lead

Dim. (L x W x H) mm	Standby power consumption W	Cat. No.
61 x 34 x 15 mm	0.3	**833.74.947**

Maximum possible connected rating of 10 W per converter.

LOOX.2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

LED strip lights

Technical data, monochrome 5 mm / 8 mm

	Voltage V	Model Häfele Loox5	Quantity LEDs/m	Colour temperature K	Illuminance lx Distance 250 mm	500 mm	750 mm	1000 mm	Wattage W/m
LED strip lights monochrome, 5 mm									
	5 12 V	LED 2060	120	2700	940	400	220	135	4.8
				3000	970	420	235	145	4.8
				4000	1000	430	240	145	4.8
				5000	1030	430	240	145	4.8
		LED 2061	120	2700	1860	790	440	270	9.6
				3000	1960	850	470	290	9.6
				4000	2000	860	480	290	9.6
				5000	2060	860	480	290	9.6
	5 24 V	LED 3040	120	2700	940	400	220	135	4.8
				3000	970	420	235	145	4.8
				4000	1000	430	240	145	4.8
				5000	1030	430	240	145	4.8
		LED 3041	120	2700	1860	790	440	270	9.6
				3000	1960	850	470	290	9.6
				4000	2000	860	480	290	9.6
				5000	2060	860	480	290	9.6
LED strip lights monochrome, 8 mm									
	5 12 V	LED 2062	60	2700	1050	435	240	145	4.8
				3000	1090	455	245	150	4.8
				4000	1120	460	260	155	4.8
				5000	1130	470	260	160	4.8
		LED 2065	120	2700	1050	435	240	145	4.8
				3000	1090	455	245	150	4.8
				4000	1120	460	260	155	4.8
				5000	1130	470	260	160	4.8
		LED 2068	120	2700	2145	900	480	300	9.6
				3000	2250	940	505	310	9.6
				4000	2300	950	510	320	9.6
				5000	2300	955	515	320	9.6
	5 24 V	LED 3042	120	2700	1050	435	240	145	4.8
				3000	1090	455	245	150	4.8
				4000	1120	460	260	155	4.8
				5000	1130	470	260	160	4.8
		LED 3045	120	2700	2145	900	480	300	9.6
				3000	2250	940	505	310	9.6
				4000	2300	950	510	320	9.6
				5000	2300	955	515	320	9.6
		LED 3048	120	2700	2870	1210	665	415	14.4
				3000	3000	1270	695	430	14.4
				4000	3100	1310	715	445	14.4
				5000	3100	1320	715	450	14.4

Luminous flux lm/m	Luminous efficacy lm/W	Section length mm	Colour rendering index CRI R_a	R_9	Available length 5 m	15 m	50 m	Max. strip length (visual) m	Max. strip length wattage-dependent m on the Loox5 driver 20 W	40 W	60 W	90W
440	92	25	>90	>50	**833.74.320**	**833.74.324**	–	4.0	4.10	8.30	12.50	–
460	96	25	>90	>50	**833.74.321**	**833.74.325**	–	4.0				
480	100	25	>90	>50	**833.74.322**	**833.74.326**	–	4.0				
495	103	25	>90	>50	**833.74.323**	**833.74.327**	–	4.0				
870	91	25	>90	>50	**833.74.328**	**833.74.332**	–	3.0	2.00	4.10	6.20	–
830	97	25	>90	>50	**833.74.329**	**833.74.333**	–	3.0				
955	99	25	>90	>50	**833.74.330**	**833.74.334**	–	3.0				
990	103	25	>90	>50	**833.74.331**	**833.74.335**	–	3.0				
440	92	50	>90	>50	**833.76.300**	**833.76.304**	–	8.0	4.10	8.30	–	18.70
460	96	50	>90	>50	**833.76.301**	**833.76.305**	–	8.0				
480	100	50	>90	>50	**833.76.302**	**833.76.306**	–	8.0				
495	103	50	>90	>50	**833.76.303**	**833.76.307**	–	8.0				
870	91	50	>90	>50	**833.76.308**	**833.76.312**	–	5.5	2.00	4.10	–	9.30
930	97	50	>90	>50	**833.76.309**	**833.76.313**	–	5.5				
955	99	50	>90	>50	**833.76.310**	**833.76.314**	–	5.5				
990	103	50	>90	>50	**833.76.311**	**833.76.315**	–	5.5				
440	92	50	>90	>50	**833.74.336**	–	**833.74.340**	6.0	4.10	8.30	12.50	–
465	97	50	>90	>50	**833.74.337**	–	**833.74.341**	6.0				
490	102	50	>90	>50	**833.74.338**	–	**833.74.342**	6.0				
495	103	50	>90	>50	**833.74.339**	–	**833.74.343**	6.0				
440	92	25	>90	>50	**833.74.354**	–	**833.74.358**	6.0	4.10	8.30	12.50	–
465	97	25	>90	>50	**833.74.355**	–	**833.74.359**	6.0				
490	102	25	>90	>50	**833.74.356**	–	**833.74.360**	6.0				
495	103	25	>90	>50	**833.74.357**	–	**833.74.361**	6.0				
920	96	25	>90	>50	**833.74.362**	–	**833.74.366**	4.0	2.00	4.10	6.20	–
970	101	25	>90	>50	**833.74.363**	–	**833.74.367**	4.0				
1000	104	25	>90	>50	**833.74.364**	–	**8337.4.368**	4.0				
1040	108	25	>90	>50	**833.74.365**	–	**833.74.369**	4.0				
440	92	50	>90	>50	**833.76.316**	–	**833.76.320**	12.0	4.10	8.30	–	18.70
465	97	50	>90	>50	**833.76.317**	–	**833.76.321**	12.0				
490	102	50	>90	>50	**833.76.318**	–	**833.76.322**	12.0				
495	103	50	>90	>50	**833.76.319**	–	**833.76.323**	12.0				
920	96	50	>90	>50	**833.76.334**	–	**833.76.338**	8.0	2.00	4.10	–	9.30
970	101	50	>90	>50	**833.76.335**	–	**833.76.339**	8.0				
1000	104	50	>90	>50	**833.76.336**	–	**833.76.340**	8.0				
1040	108	50	>90	>50	**833.76.337**	–	**833.76.341**	8.0				
1270	88	50	>90	>50	**833.76.352**	–	**833.76.356**	6.2	1.30	2.70	–	6.20
1305	91	50	>90	>50	**833.76.353**	–	**833.76.357**	6.2				
1340	93	50	>90	>50	**833.76.354**	–	**833.76.358**	6.2				
1430	99	50	>90	>50	**833.76.355**	–	**833.76.359**	6.2				

For quick selection of linear light, see page 2

LED strip lights

Technical data, monochrome constant current 8 mm / silicone 8 mm

	Voltage V	Model Häfele Loox5	Quantity LEDs/m	Colour temperature K	Illuminance lx Distance 250 mm	500 mm	750 mm	1000 mm	Wattage W/m
LED strip lights monochrome constant current 8 mm									
	5 12 V	LED 2077	120	2700	1775	760	425	265	9.6
				3000	1850	790	440	270	9.6
				4000	1950	830	465	285	9.6
				5000	1950	830	465	285	9.6
	5 24 V	LED 3050	140	2700	2050	890	490	305	9.6
				3000	2150	930	520	325	9.6
				4000	2205	990	545	335	9.6
				5000	2340	1010	550	340	9.6
		LED 3051	140	2700	3150	1365	760	470	14.4
				3000	3170	1385	770	480	14.4
				4000	3190	1390	770	480	14.4
				5000	3200	1400	770	480	14.4
		LED 3052	140	2700	4070	1750	970	600	19.2
				3000	4160	1780	990	620	19.2
				4000	4220	1800	1000	625	19.2
				5000	4260	1840	1020	630	19.2
LED silicone strip lights monochrome, 8 mm									
	5 12 V	LED 2063	60	2700	920	390	215	135	4.8
				3000	960	410	225	140	4.8
				4000	975	415	230	145	4.8
				5000	1010	425	235	145	4.8
	5 24 V	LED 3043	120	2700	920	390	215	135	4.8
				3000	960	410	225	140	4.8
				4000	975	415	230	145	4.8
				5000	1010	425	235	145	4.8
		LED 3046	120	2700	1855	790	435	270	9.6
				3000	1895	805	445	275	9.6
				4000	1960	840	465	290	9.6
				5000	2020	860	475	295	9.6

Luminous flux	Luminous efficacy	Section length	Colour rendering index CRI		Available length			Max. strip length (visual)	Max. strip length wattage-dependent m on the Loox5 driver			
lm/m	lm/W	mm	R_a	R_9	5 m	15 m	50 m	m	20 W	40 W	60 W	90W
810	84	25	>90	>50	**833.74.372**	–	**833.74.376**	6.2	2.00	4.10	4.10	–
860	90	25	>90	>50	**833.74.373**	–	**833.74.377**	6.2				
900	94	25	>90	>50	**833.74.374**	–	**833.74.378**	6.2				
905	94	25	>90	>50	**833.74.375**	–	**833.74.379**	6.2				
945	98	50	>90	>50	**833.76.362**	–	**833.76.366**	9.0	2.00	4.10	–	9.30
1030	107	50	>90	>50	**833.76.363**	–	**833.76.367**	9.0				
1060	110	50	>90	>50	**833.76.364**	–	**833.76.368**	9.0				
1080	113	50	>90	>50	**833.76.365**	–	**833.76.369**	9.0				
1430	99	50	>90	>50	**833.76.370**	–	**833.76.374**	6.2	1.30	2.70	–	6.20
1520	106	50	>90	>50	**833.76.371**	–	**833.76.375**	6.2				
1605	111	50	>90	>50	**833.76.372**	–	**833.76.376**	6.2				
1650	115	50	>90	>50	**833.76.373**	–	**833.76.377**	6.2				
1850	96	50	>90	>50	**833.76.378**	–	**833.76.382**	4.6	1.00	2.00	–	4.60
2015	105	50	>90	>50	**833.76.379**	–	**833.76.383**	4.6				
2050	107	50	>90	>50	**833.76.380**	–	**833.76.384**	4.6				
2100	109	50	>90	>50	**833.76.381**	–	**833.76.385**	4.6				
415	86	50	>90	>50	**833.74.344**	**833.74.348**	–	6.0	4.10	8.30	12.50	–
440	92	50	>90	>50	**833.74.345**	**833.74.349**	–	6.0				
455	95	50	>90	>50	**833.74.346**	**833.74.350**	–	6.0				
460	96	50	>90	>50	**833.74.347**	**833.74.351**	–	6.0				
415	86	50	>90	>50	**833.76.324**	**833.76.328**	–	12.0	4.10	8.30	–	18.70
440	92	50	>90	>50	**833.76.325**	**833.76.329**	–	12.0				
455	95	50	>90	>50	**833.76.326**	**833.76.330**	–	12.0				
460	96	50	>90	>50	**833.76.327**	**833.76.331**	–	12.0				
820	85	50	>90	>50	**833.76.342**	**833.76.346**	–	8.0	2.00	4.10	–	9.30
870	91	50	>90	>50	**833.76.343**	**833.76.347**	–	8.0				
900	94	50	>90	>50	**833.76.344**	**833.76.348**	–	8.0				
930	97	50	>90	>50	**833.76.345**	**833.76.349**	–	8.0				

For quick selection of linear light, see page 2

LED strip lights

Technical data, multi-white 8 mm / RGB 10 mm

	Voltage V	Model Häfele Loox5	Quantity LEDs/m	Colour temperature K	Illuminance lx Distance 250 mm	500 mm	750 mm	1000 mm	Wattage W/m
LED strip lights multi-white, 8 mm									
	5 12 V	LED 2064	2 x 60	2700	1025	425	230	145	4.8
				5000	1075	445	245	150	
		LED 2070	2 x 120	2700	1865	785	430	270	9.6
				5000	2045	865	475	295	
	5 24 V	LED 3044	2 x 120	2700	1025	425	230	145	4.8
				5000	1075	445	245	150	
		LED 3047	2 x 120	2700	1865	785	430	270	9.6
				5000	2045	865	475	295	
		LED 3049	2 x 120	2700	2780	1180	650	405	14.4
				5000	2800	1200	660	415	
LED strip lights RGB, 10 mm									
	5 12 V	LED 2080	120	RGB	–	–	–	–	9.6
	5 24 V	LED 3080	120	RGB	–	–	–	–	9.6

	Luminous flux lm/m	Luminous efficacy lm/W	Section length mm	Colour rendering index CRI R_a	R_9	Available length 5 m	15 m	50 m	Max. strip length (visual) m	Max. strip length wattage-dependent m on the Loox5 driver 20 W	40 W	60 W	90W
	425	89	50	>90	>50	**833.74.352**	–	**833.74.353**	4.5	4.10	8.30	12.50	–
	465	97											
	825	86	25	>90	>50	**833.74.370**	–	**833.74.371**	3.5	2.00	4.10	6.20	–
	930	97											
	425	89	50	>90	>50	**833.76.332**	–	**833.76.333**	8.5	4.10	8.30	–	18.70
	465	97											
	825	86	50	>90	>50	**833.76.350**	–	**833.76.351**	6.5	2.00	4.10	–	9.30
	930	97											
	1230	85	50	>90	>50	**833.76.360**	–	**833.76.361**	5.0	1.30	2.70	–	6.20
	1370	95											
	530	51	25	–	–	**833.74.380**	–	–	3.0	2.00	4.10	6.20	–
	530	51	50	–	–	**833.76.386**	–	–	6.5	2.00	4.10	–	9.30

For quick selection of linear light, see page 2

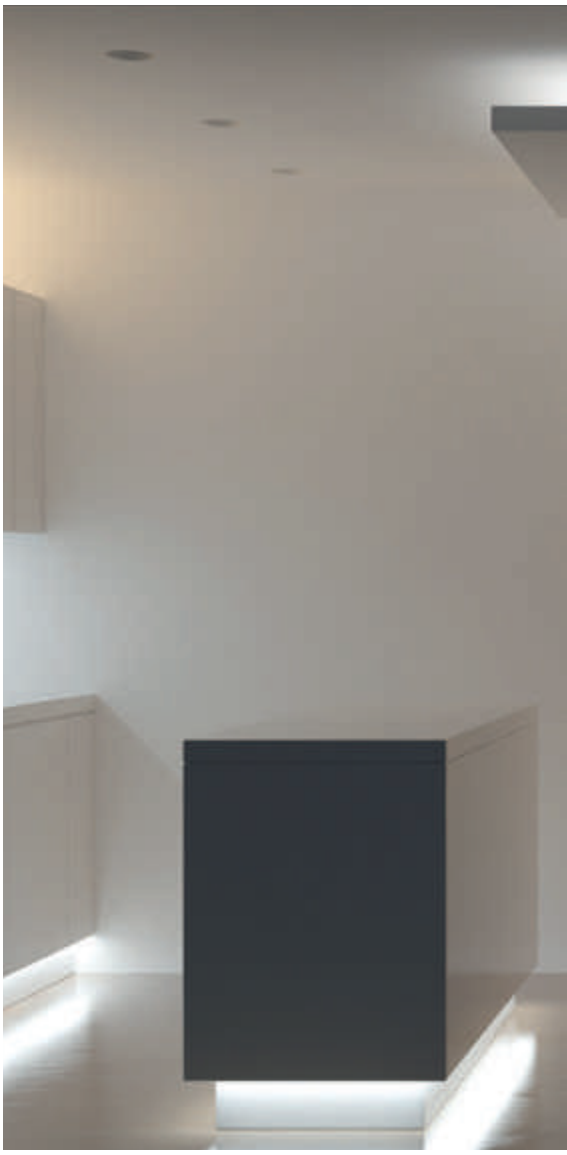
Light shapes rooms.

Light in furniture is more than just accessories.

Light in furniture is no longer an accessory which can be retrofitted later. Today, light has essential and imperative comfort functions in furniture.
Contemporary furniture planning incorporates light as a focus right from the beginning in order to achieve the best possible result for customers.

Light changes spaces.

The interplay of light in rooms and light in furniture promotes a feeling of well-being.

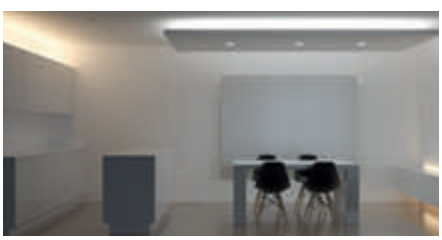


Cooking.

Bright, neutral white light makes for a pleasant illumination of the important work spaces and ensures the proper reflection of the colour of food and products.

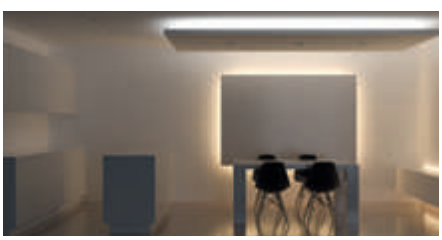
Eating.

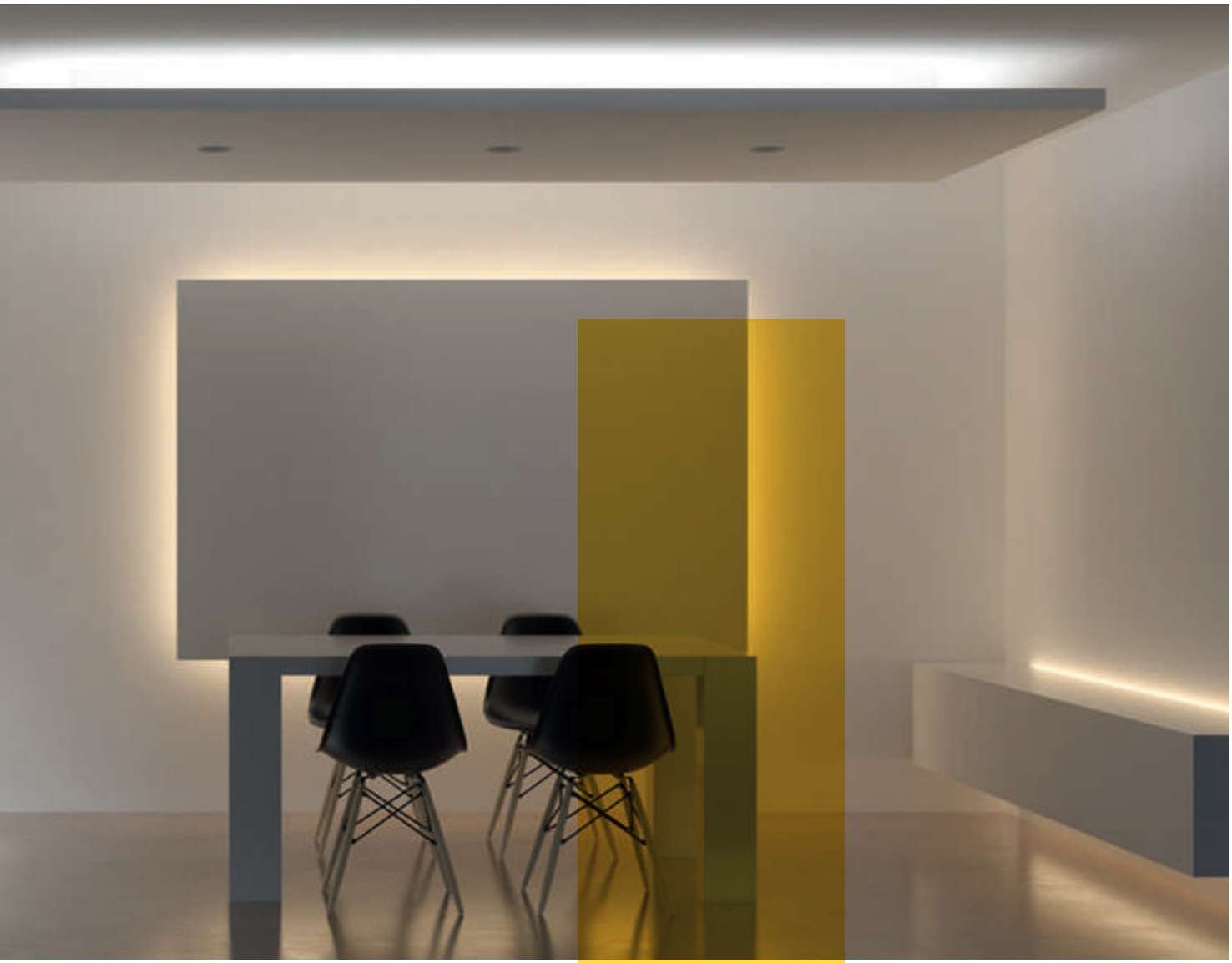
The combination of direct, flat light for a perfect illumination of the dining table, supplemented with indirect, warm effect lights on ceilings and walls creates an atmospheric ambience.



Relaxation.

The interaction of areas of light and horizons created by light creates a comfortable and cozy atmosphere.





Bright cool light promotes concentration, warm and dimmed light promotes relaxation.

Light and intensity.

When lighting a room, using a combination of several light sources is critical.

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.

Depending on the purpose for the lighting plan of a room and specific areas, task light is used. To create a specific ambiance ambient light is used.

Task light.

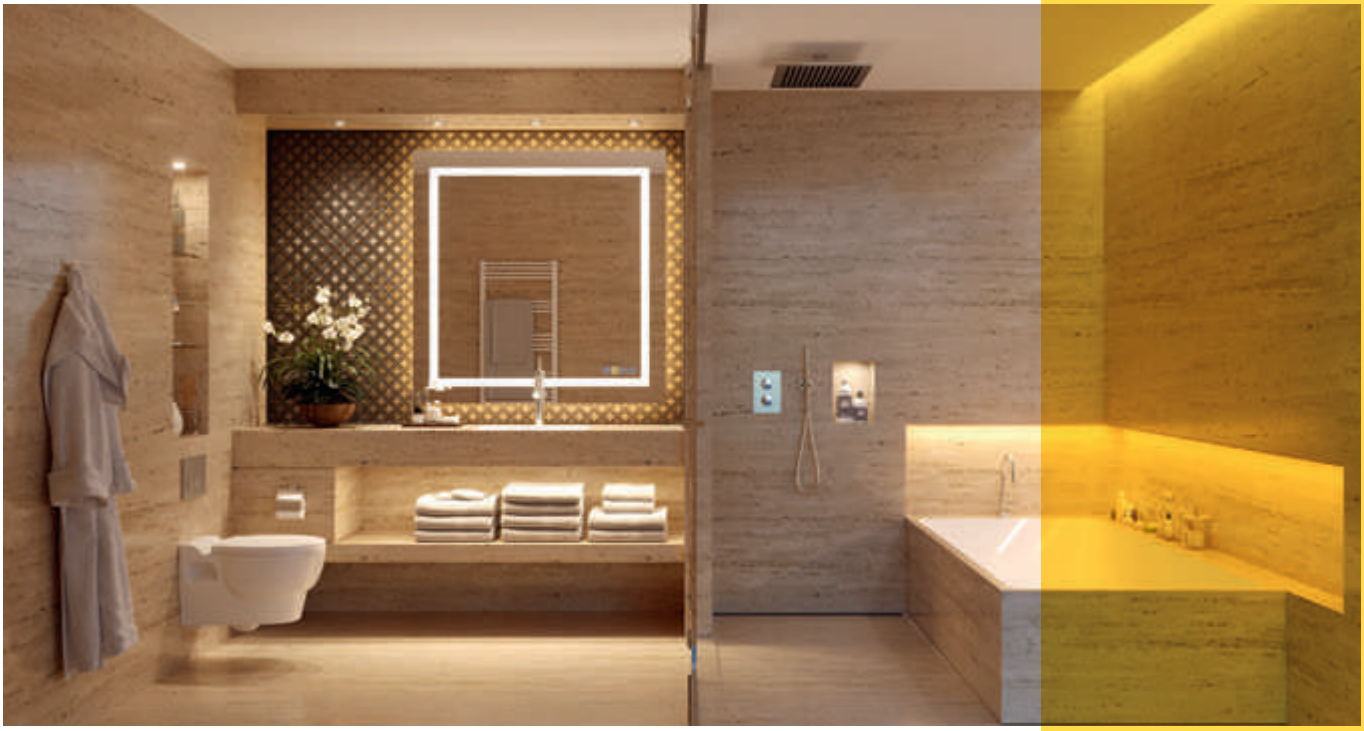
For example, the lighting need in a home office can differ and depends on the location of the desk as well as the influx of daylight. When work is done on computer or tablet a glare-free light source is required. Since the screen is the work area, a backlight can be sufficient. However, drawing or writing require a well lit work surface.

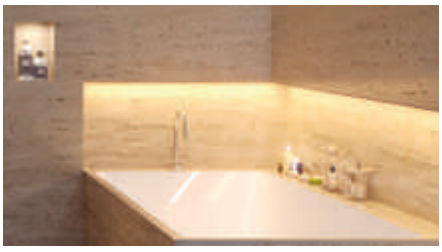
Ambient light.

To create an atmospheric ambience, the room light can also be used as indirect lighting in the furniture. Ambient light provides less illumination and serves to create an appealing environment. The light source is often hidden, for example it can be embedded in shelving or behind moldings. It is important that ambient light beams do not create brightly lit surfaces or produce sharp edges.

Light evokes emotions.

Light situations trigger associations:
romantic, comfortable, relaxing and cold.





Staging.

Spotlights make the illuminated objects on shelves and showcases the focus. And wall wash light makes wall structures visible.

Highlighting.

Highlighting functional areas with even, bright light is a sensible addition to the general room light.

Setting accents.

The Loox lighting system offers many possibilities to set accents in a room. With the appropriate light composition corners, edges and surfaces can be dramatized.

With a smart lighting plan specific moods can be created in the living environment. The Häfele Loox system can turn a purposefully designed bathroom into a spa. Edge lighting creates an artificial horizon, dimmable spotlights create a candlelight atmosphere. Warm light creates a mood simulating a sunset.

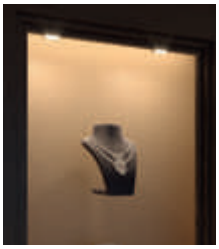
Light and colour.

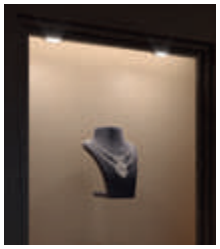
Light makes colour visible.

Light is made up of electromagnetic waves which only become visible to the human eye through reflection on objects. A red object reflects only the red colour. The other colours are absorbed. All light sources are tested and measured based on the accuracy of their colour reproduction, the so-called colour rendering index (CRI). The higher the CRI, the higher the quality of colour reproduction.

Warm light. Cool light.

The colour of the light, also referred to as colour temperature, controls our state of well-being. 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.





Consistent colour quality and performance.

An important factor for new technologies is the reliability in use.

Häfele has set high standards for the selection of materials, which are continually tested and certified internationally. Setting a narrow binning is one of them. All LEDs are tested and sorted to specified quality criteria after production. Häfele selects the highest quality class LEDs for maximum life time, energy efficiency and to ensure aftermarket replacement quality.

Light with effect.

Every room comes to life with light and shadows.

Linear light.

Linear illumination is created with LED strip lights. Inside cabinets and shelves, on work surfaces or enclosures of furniture, LED strip lights provide uniform light with a broad area of illumination.

Directional light.

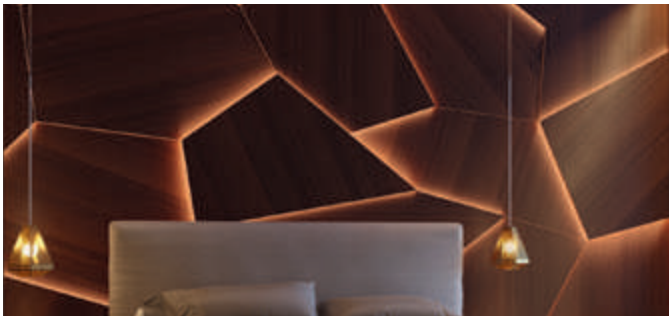
Narrow beam Loox spotlights can create directional lighting effects to highlight specific objects. With surface mounted or built-in spotlights in a row it is possible to achieve flat surface illumination of specific areas. A special effect is created by overlapping cones of light.

Linear illumination can be used to create horizons. With direct light objects can be partially emphasized. Wall wash light can highlight and reinforce structures (stone structures, relief wallpapers).

Light and surfaces.

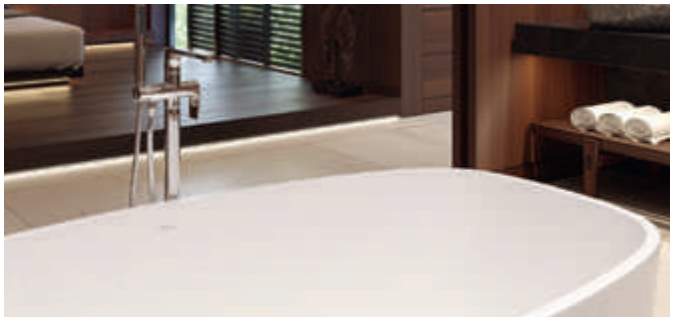
Depending on the material and structure a surface reacts differently to light.
Light is partially absorbed, a part is reflected and depending on the surface it is scattered. With translucent or transmissive materials, the light can also shine through the body.

Depending on the material and structure a surface reacts differently to light.



Dark surfaces.

Dark materials absorb light, so it is necessary to use stronger light. However, too much light destroys the ambiance and comfort.



Bright surfaces.

A bright floor or bright materials reflect the light much better than dark materials. A brightly designed space therefore requires less overall light. Extra effect lighting adds freshness and a feeling of spaciousness to the room.

Light and control.

A Smart Home also includes the smart control of different lighting scenarios inside the building.

The Häfele Loox system offers several solutions for controlling lights; from the direct control via simple switching points to the remote control of more complex lighting scenarios.

In addition to the lighting, digital solutions can also be used to centrally operate and control the stereo, television, heating, alarm system and more.

Remote control of light.

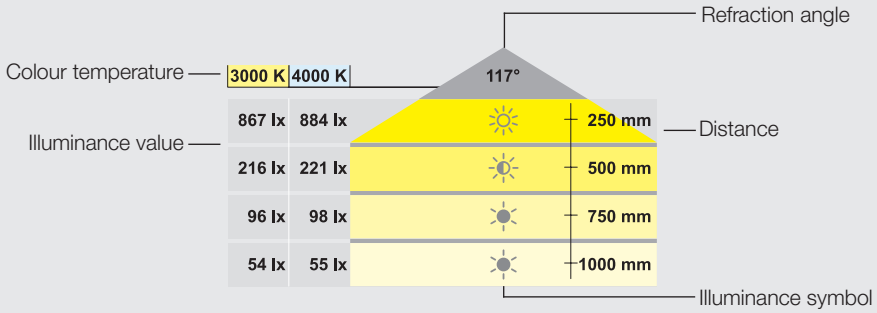
Especially important is the control of light scenarios in multi-functional rooms. Depending on the application remote controls can be used for easy control of several light sources, from multi-white lights to coloured RGB lights.

Control light (and more) centrally.

An app connects and centrally controls all installed light components and allows the design of light effects individually with a smartphone or tablet. In this way multiple scenarios can be saved and programmed, or simply retrieved with just by finger tip.

Light effects and lighting technology

Cone of light



	>500 lx
	150–500 lx
	<150 lx

Note:
The illuminance symbol always represents the best value of all colour temperatures and is meant to be for quick guidance only. Please note the specific values of the individual colour temperatures and the refraction angle before ordering!

Recommendation for illumination of interior rooms

Interior room type	Illuminance in Lux at 500 mm	Colour temperature
Kitchen, dining area	300–500	2700–4000 K
Store fixtures, galleries	300–500	4000–6500 K
Bedroom, living room	200–300	2700–4000 K
Bathroom	200–500	3500–4000 K
Storage room	100	4000–5000 K
Orientation light, hallway, wardrobe	10–50	4000–5000 K

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Test symbols and symbols

Product features

Dimmable

RGB light

Multi-white light

Bluetooth®: ndustry standard for data transmission between electronic devices by radio over a short distance. The Bluetooth® word mark and logos are registered trademarks of Bluetooth SIG, Inc., and Häfele uses these marks under licence. Other trademarks and names are the propriety of their respective owners.

Test symbol

TÜV seal of quality

Confirmation from manufacturer that the product complies with the product-specific applicable European norms and standards.
Häfele will not use the certification in advertising.

RoHS — Restriction of Hazardous Substances (EU directive 2011/65/EU).
Häfele will not use the certification in advertising.

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

Energy efficiency standard VI of the United States Department of Energy

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

Regulatory Compliance Mark (for Australia)

China Compulsory Certification

Eurasian Conformity, for CU countries (Russia, Kazakhstan, Belarus)

Korea Certification Mark

R36733 — Bureau of Standards, Metrology & Inspection BSMI (for Taiwan)

Thai Industrial Standards Institute TISI

European Norms Electrical Certification, with indication of the testing laboratory (one of 18 European national institutes)

Declaration of Conformity for telecommunication and radio equipment (USA)

Telecommunication and Radio Equipment (Japan)

Protection classes

Protection class II

Protection class III

Degrees of protection

IP20 — Only for use in dry locations

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

IP65 — Dustproof, protection from water spray (jet) from any angle.

IP20 / IP44 — IP44 after installation

IP20 / IP65 — IP65 after installation

Safety symbols

Installation permitted on or in furniture, whose ignition properties are unknown.

110 — Max. surface temperature in case of fault

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

Do not use components that impede thermal radiation.

Waste of Electrical and Electronic Equipment. Do not dispose of in residential waste!

Driver, converts alternating current to direct current

Voltage supply

SELV — Safety Extra Low Voltage

Independent operating unit for use outside of light without additional cover.

Short-circuit proof with safety isolation

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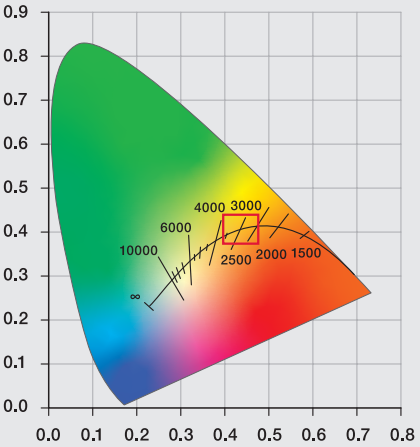
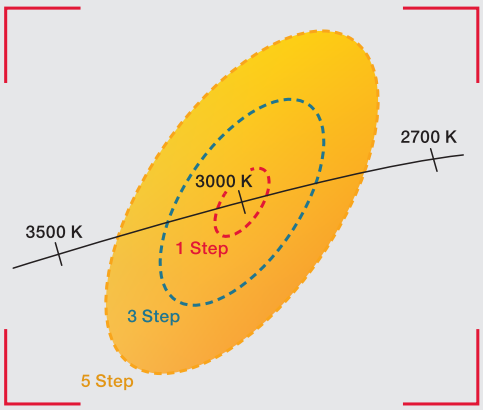
Technical terms

Technical terms

Refraction angle	The refraction angle (beam angle) describes the angle between two imagined straight lines in a plane through the visual 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 visual beam axis.
Illuminance	The illuminance is the **luminous flux** (lm) in relation to a surface (m^2) and it is indicated in Lux (lx). It is used to measure the brightness with which a surface is illuminated.
Binning	During industrial manufacture, LEDs differ from each other with regard to colour, luminous flux (brightness) and forward voltage. In order to achieve consistent light quality with the same brightness level and a uniform light colour, they are therefore sorted according to colour, luminous flux and forward voltage and separated into bins (“containers”) during manufacture. This sorting process is known as Binning. Häfele exclusively uses bins with a high degree of brightness in order to achieve high efficiency.
Bluetooth® Mesh	Network technology which was introduced in 2017, based on Bluetooth® Low Energy, in which all components (controls, devices) form a joint network, which is ideal for controlling lights. Häfele Connect Mesh uses this technology.
Energy efficiency class	The energy efficiency class 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++.
Colour temperature and light colour	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 colour; the higher the colour temperature, the cooler the light colour. White light sources with a colour temperature below 3400 K are considered “warm white” by Häfele, white light sources with a colour temperature between 3400 K and 5700 K are considered “cool white”. White light sources above 5700 K are referred to as “daylight white”.
Colour consistency/ colour differences	  Colour differences are specified in stages, so called “MacAdams Ellipses” or “SDCM” (Standard Deviation of Colour Matching). Häfele uses 3 SDCM binnings for its LED products. This is a good value, because it is statistically unlikely that LEDs with a maximum colour difference will be next to each other on the strip light or in the light and that the colour difference is visible. In its ErP directive, the EU Commission stipulates that 6 SDCMs may not be exceeded for LED products.
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.
Weighted energy consumption	The weighted energy consumption is rounded to two decimal places in kilowatt hours in relation to 1,000 hours of use. It applies to operation of the LED with an external driver. The calculation and publication of this value is defined by EU ordnance No. 874/2012.

SDCM	Visibility
1	Only people with extremely good vision can see the most minimal colour differences.
2	Most minimal colour differences are visible.
3	Very small colour differences are visible.
4	Colour differences are visible.
5	Significant colour differences are visible.
>5	Very clear colour differences are visible.

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Technical terms

Constant current technology

The same current flows through each LED. That means that the brightness of all LEDs is the same, and a **drop in luminous flux** is prevented. This increases the maximum visual length of the strip lights.

Life time

Specified in operating hours. The life time mainly depends on the warming of the products. The hotter the environment, the shorter the life time. The replacement rate in years is calculated from the total life time and the average operating time per annum. The following table can be used as a planning aid. The specified life time relates to L70/B50.

Indoor use	Annual operating time (EN 15193) hours	Replacement rate Years	Life time installation Hours
Office	2,500	20	50,000
Education	2,000	25	50,000
Hospital	5,000	10	50,000
Hotel	5,000	10	50,000
Restaurant	2,500	10	25,000
Shop	5,000	10	50,000

Life time L80/B10

L80 is the time after which the LED is still emitting 80 % of its original light. B10 means that 10 % of the LEDs may have less than 80 % of the original light output.
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 for a minimum of 6,000 hours. Then the life time L80 is calculated by means of extrapolation. The extrapolation procedure is described in regulation IES TM-21.

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 base, and both are encapsulated in protective plastic. LEDs are mostly based on inorganic, i.e. non-carbonic materials.

Luminous efficacy

The luminous efficacy is the ratio of the luminous flux and the wattage absorbed.
It is used to measure the operating efficiency of the light source.
It is indicated in Lumen per Watt (lm/W).

Luminous flux

It is indicated in Lumen (lm). The luminous flux indicates the light output, i.e. the quantity of light a source emits. The value may be subject to measurement and production-related fluctuations of ±10 %.

Drop in luminous flux

The brightness of the LEDs on LED strip lights decreases with the length of the strip light due to the increasing resistance of the copper line. A drop in luminous flux from the first to the last LED of up to 30% is imperceptible to the human eye. That's why Häfele specifies a **maximum strip light length** for this visual value. Generally, it is possible to operate strip lights with longer lengths, but a difference in brightness will be visible. Exception: The LEDs of the strip lights with constant current technology (LED 2077/3050/3051/3052) always have the same brightness.

Max. strip light length

Visual value
Strip light length with an imperceptible **drop in luminous flux** of max. 30%.

Wattage-dependent value
Strip light length = output power of driver / wattage of the strip light per meter. If the wattage-dependent value is greater than the visual value, a difference in brightness will be perceivable. Exception: The LEDs of the strip lights with **constant current technology** (LED 2077/3050/3051/3052) always have the same brightness.

Multi-white

The light colour of shades of white can be changed as required with Häfele Connect. Mesh, e.g. from warm white to cool white.

RGB

RGB is the abbreviation for red, green and blue. In combination with Häfele Connect Mesh, almost any colour combination can be created from the three primary colours.

RoHS – Lead in Loox products

Loox Products by Häfele are lead-free and adhere to the RoHS guidelines. RoHS is part of CE conformity. All Loox products are CE compliant. Häfele does not advertise the CE conformity in its catalogues, since only CE compliant products are allowed to be offered. The declaration of conformity is available online at www.hafele.com

Transmittance

Ratio of transmitted light to incidental light. An ideal transparent body would have a transmittance of 100 %.

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Technical questions

Technical questions

How do I clean an LED strip light?	LED strip lights without a silicone sleeve do not require cleaning. Silicone strip lights can be wiped down with a damp antistatic cloth. Scouring agents and aggressive cleaners can destroy the surface and attack the LEDs.
May I use drivers from other manufacturers?	In order to ensure the safety and functionality of the installation, only Loox drivers or drivers that have been explicitly approved by Häfele may be used. If an electronics technician installs the system, Loox can also be connected and coupled with on-site electrical equipment. However, we explicitly point out that these tasks must be performed by a qualified electrician.
What is the life time of the products in permanent operation?	Loox5 drivers >50,000 hrs. with max. ambient temperature (40 °C/45 °C), wall plug drivers 30,000 hrs. at an ambient temperature of max. 40 °C. Provide for sufficient air supply and circulation at the mounting location of the driver. Loox5 LED strip lights >50,000 hrs. at an ambient temperature of max. 45 °C. Cooling with an aluminium profile is recommended from 9.6 W/m.
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.
Can 12 V and 350 mA lights or 12 V and 24 V lights be used together?	Yes, please use our respective converter. (converters see chapter Supplying)
How can sensor switch malfunctions be avoided (Ø 12 mm)?	Check for correct switch installation. The TOP lettering on the switch must point upwards in the installation situation.
How is consistent bulb light colour guaranteed?	Häfele makes high demands on the selection of the materials. All Loox5 strip lights contain high-quality and long-lasting LEDs from Samsung and Lumileds. Setting very tight quality specifications ensures not only luminous flux and breakdown voltage, but also consistent light colour for follow-up purchases.
What is the maximum wattage that I can connect to a device output of the driver?	With 12 V systems it is 12 V x 5.0 A = 60 W with a 60 W driver With 24 V systems it is 12 V x 3.75 A = 90 W with a 90 W driver
How long may the lead between the driver and the device be?	The maximum lead length from the Loox5 driver to the device is 10 m. Long cable lengths in combination with large loads (strip light lengths) can result in voltage losses in the cable. These lead to visible loss of brightness in the lights. The illuminance listed with the lights has been determined with the rated output voltage of the driver. (12 V or 24 V).
What is AWG?	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.
What is the current carrying capacity of my cable?	Häfele allows the following current carrying capacity and wattage:

Type of cable	24 AWG		22 AWG		20 AWG		18 AWG	
Current carrying capacity	1.5 A		2.5 A		3.5 A		5.0 A	
Voltage	12 V	24 V	12 V	24 V	12 V	24 V	12 V	24 V
Wattage	18 W	36 W	30 W	60 W	42 W	84 W	60 W	110 W

The type of cable is imprinted on the coating of the cable.

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 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 (multi switch box see page 114).
Why do the lights have to be plugged in first before connecting the high voltage mains plug?	If the driver is connected to the mains 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/cars?	Yes, for sure. We have special IC strip lights that compensate for voltage fluctuations of the vehicles without problems. Our regular LED strip lights can be used as well. It is important to note, however, that the voltage peaks may reduce the life time.

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Technical questions

Can I use Loox in a sauna/ bathroom?	We offer special lights that offer IP44 protection when installed. This is sufficient for many applications. Our LED silicone strip lights are IP44 protected as well. However, it must be ensured that the driver and mains lead are dry. Furthermore, a maximum ambient temperature of 45 degrees must be ensured.
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 devices.

Documentation on the Internet

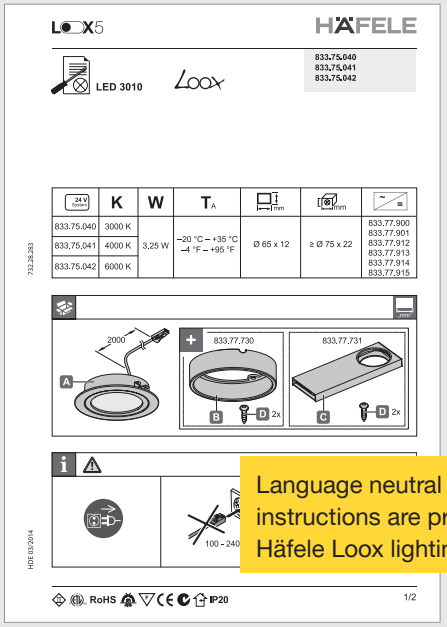
Video guides

Language neutral for all markets

Language-independent videos are available for the Loox radio remote controls and other selected products at **www.hafele.com** next to the item.

Installation instructions

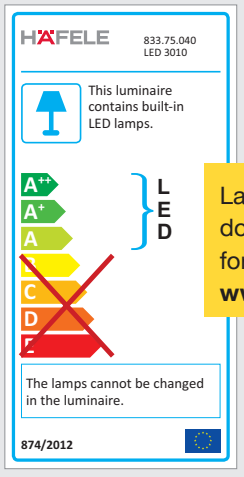
Language neutral for all markets



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

Energy efficiency class

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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