HÄFELE

LOOX5

The LED lighting system
for furniture and rooms.

5

Contents

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

Compatibility > **Page 93**

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

Technical data > **Page 106**

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

☀ **Multi dimensional mirror**

Page

96

Create a completely custom ambience in the bathroom with the Multi Dimensional Mirror.
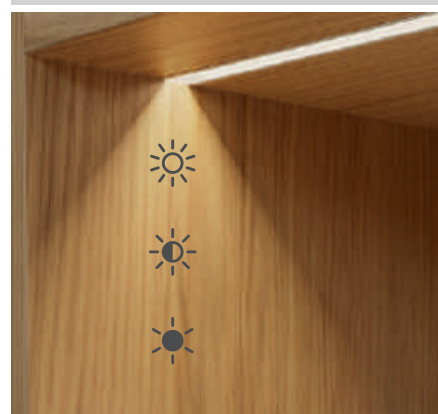
Task light, > **Page**
Ambient light, **124**
Accent light

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

on.
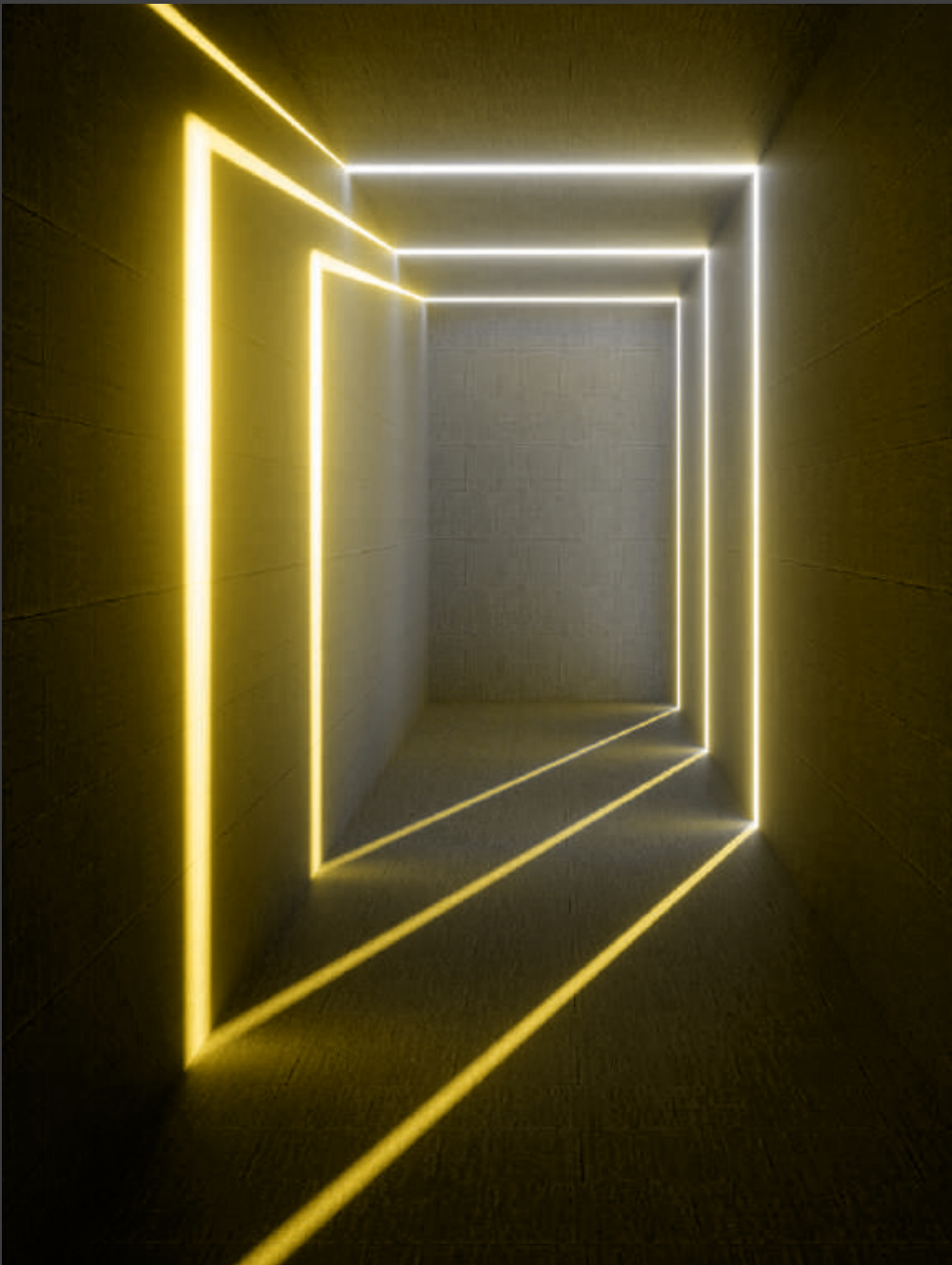
LOOX5

The Häfele Loox5 Easy Order Guide brochure brings you our most common lighting combinations in an easy to understand format. Your lighting inspiration, easy order guide!

04

03

02

01

We have spent approximately 100,000 hours working with LED lights, researching and developing. We have had many valuable discussions with our partners in trade and industry – and we have learned a great deal. The market is demanding digital solutions.

After four generations of Loox LED lights the result is not simply advanced development but it has brought our Loox LED lighting to the next level. The world is accelerating and the demands of our customers along with it. Our development has accelerated to exceed those demands.

The experience 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

Welcome to the innovative Loox5
Engineered by Häfele.

**Easy.
Logical.
Linear.**
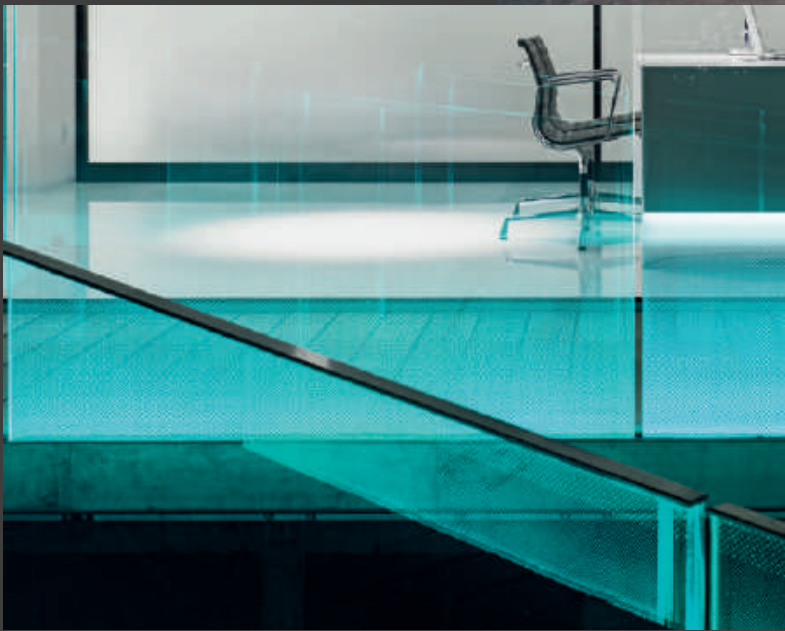
Supplying.

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

Distributing.

Wired.

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

Switch

Driver

6-way distributor
with switching function

Monochrome lights

Straight down the line.

Networking.
Wireless.

Illuminating.

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

Equipped with high-quality LEDs
made by Samsung.

Häfele Connect
Mesh push
button, wall
mounted

Push button,
wall mounted
External
product

Häfele Connect
Mesh App

Häfele Connect
Mesh remote
control

Networking via
Häfele Connect
Mesh 2-channel
interface

6-way distributor
Häfele Connect Mesh

Multi-white adapter

Monochrome light

Multi-white light

Connection with
RGB adapter

RGB light

Multi-white lights

Loox5
—
Colour codes.

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Multi-white

RGB

Monochrome

Yellow-in-yellow
The Loox5 system with
12 volts

Intu

con

itive

___nec___tions.

2

4

Green-in-green
The Loox5 system with
24 volts

Monochrome

RGB
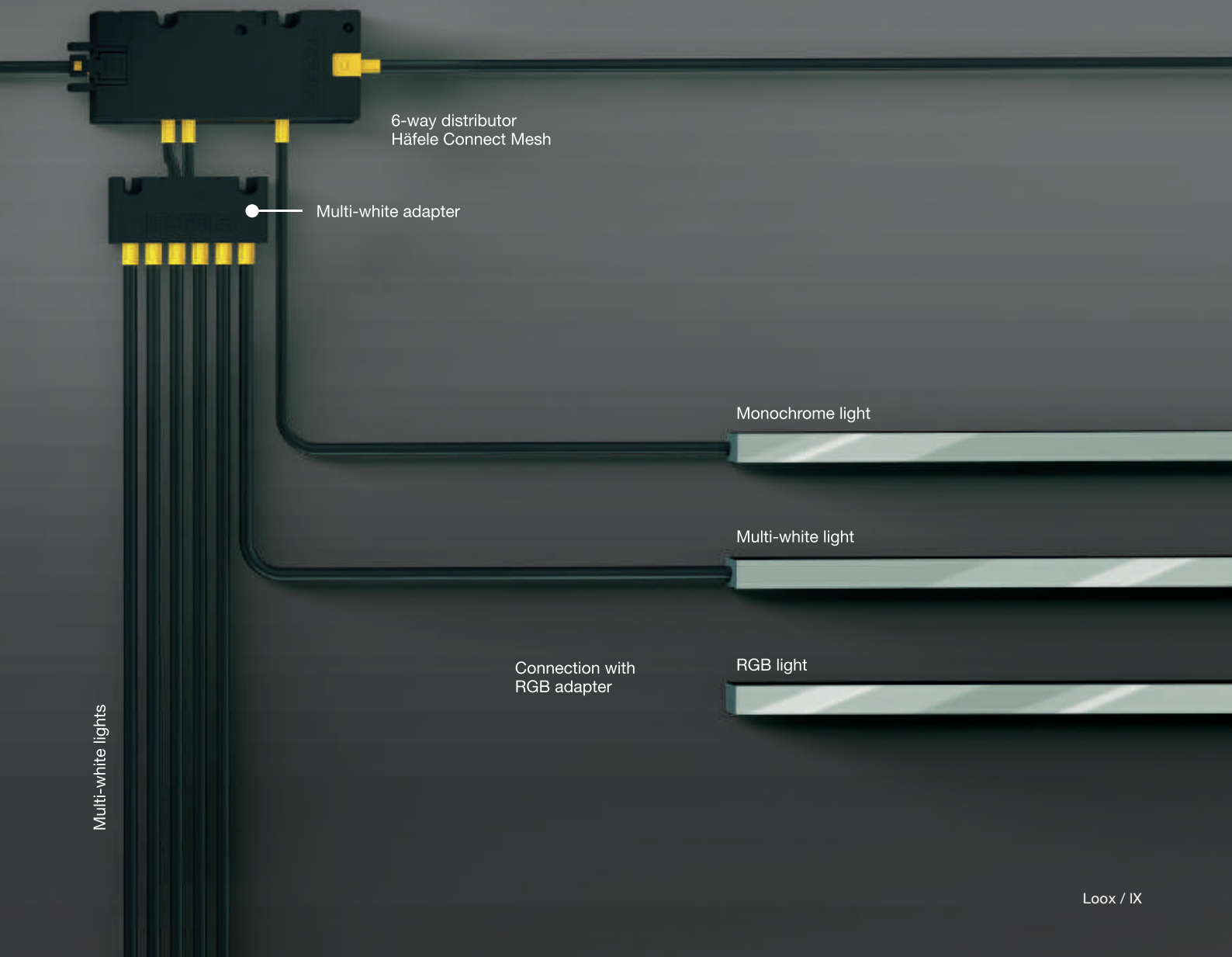
Multi-white

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
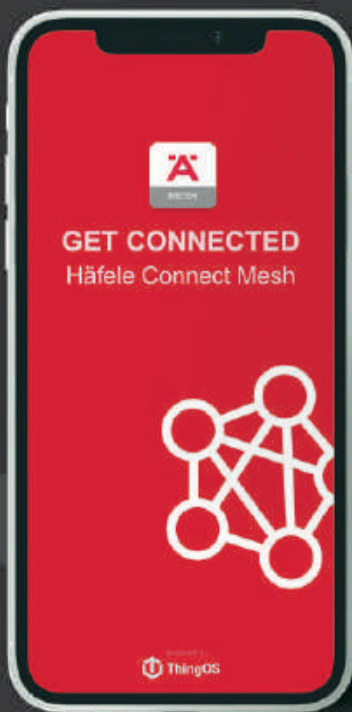
Control light and configure the lighting individually – it's that simple with the Loox5 system: all of the Loox5 lights installed in the house "register" in the Häfele Connect Mesh App and are integrated into the app interface in just a few steps. Now the lights can be individually activated, dimmed, 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 colour Multi-white
Light source Point light
Alignment Up
Installation type Recess mounted
Example LED 2091
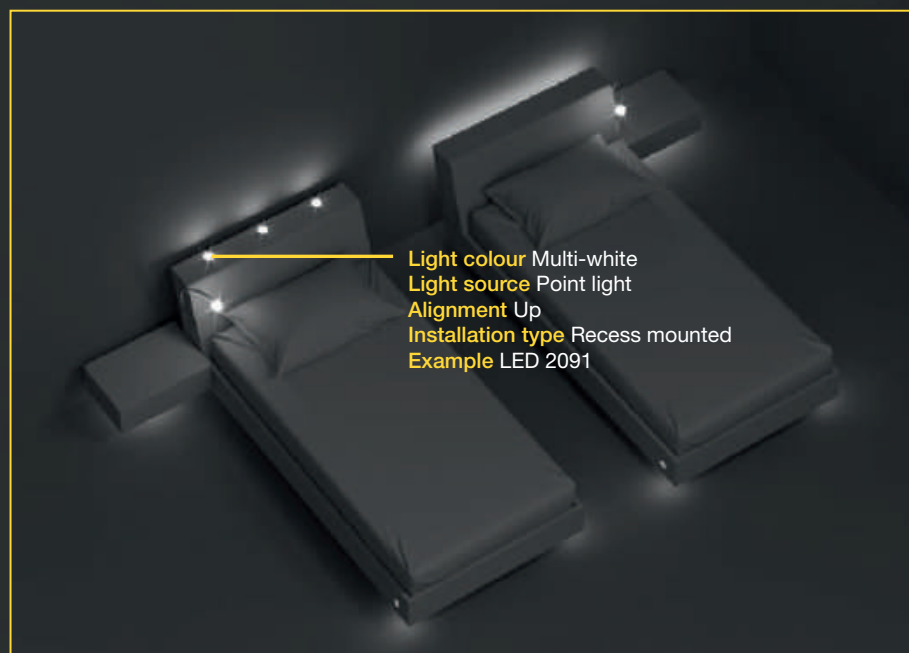
Light in the sleeping area.
Ambience full of atmosphere for rest areas.

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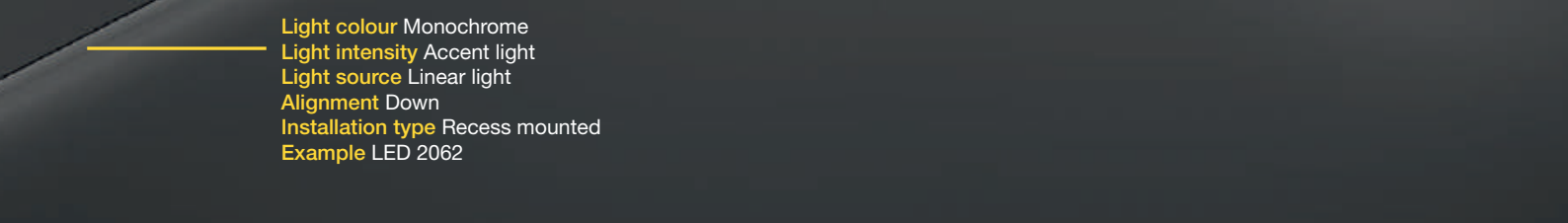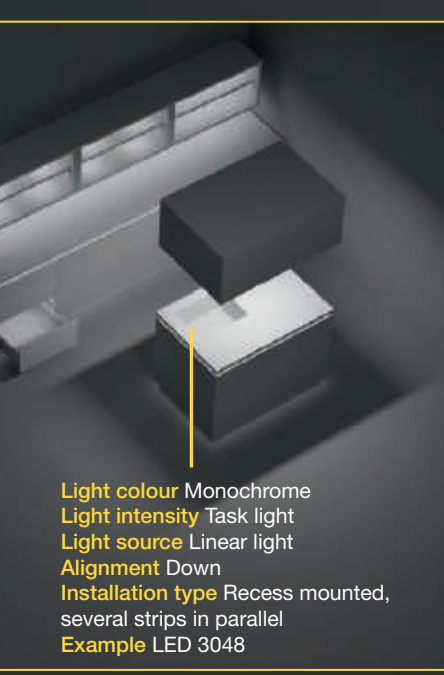
Light colour Monochrome
Light intensity Ambient light
Light source Linear light
Alignment To the side
Installation type Attached at the side to the circular mounting plate behind the mirror
Example LED 3040, just 5 mm wide for slim design applications

Light in the storage space.
Orientation for
perfect organisation.
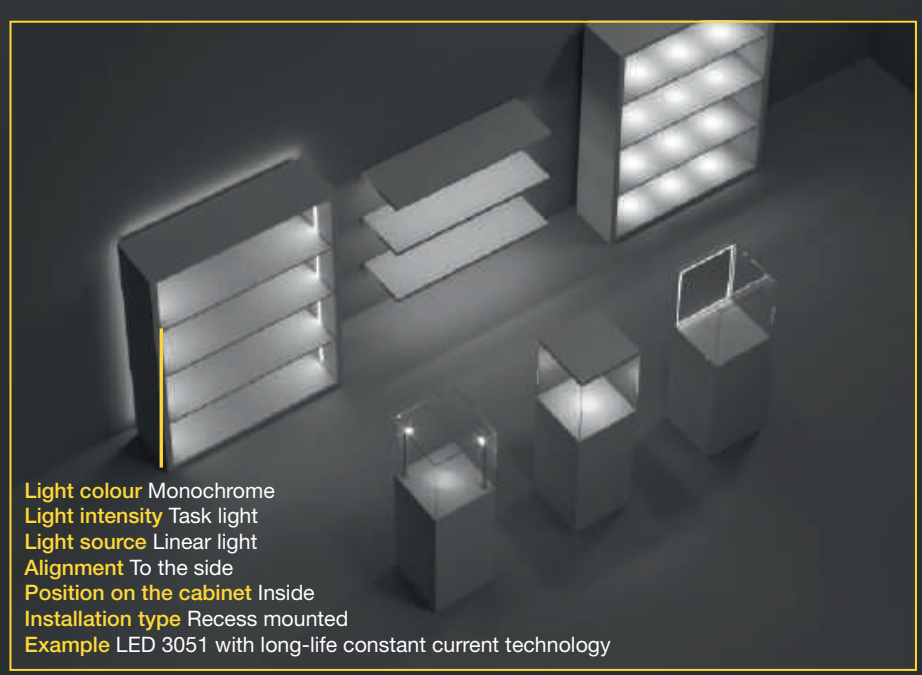
Light colour Monochrome
Light intensity Accent light
Light source Linear light
Alignment Down
Installation type Recess mounted
Example LED 2062

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.
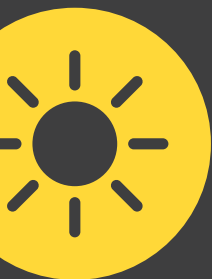
Illuminating.

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.

LOOX5
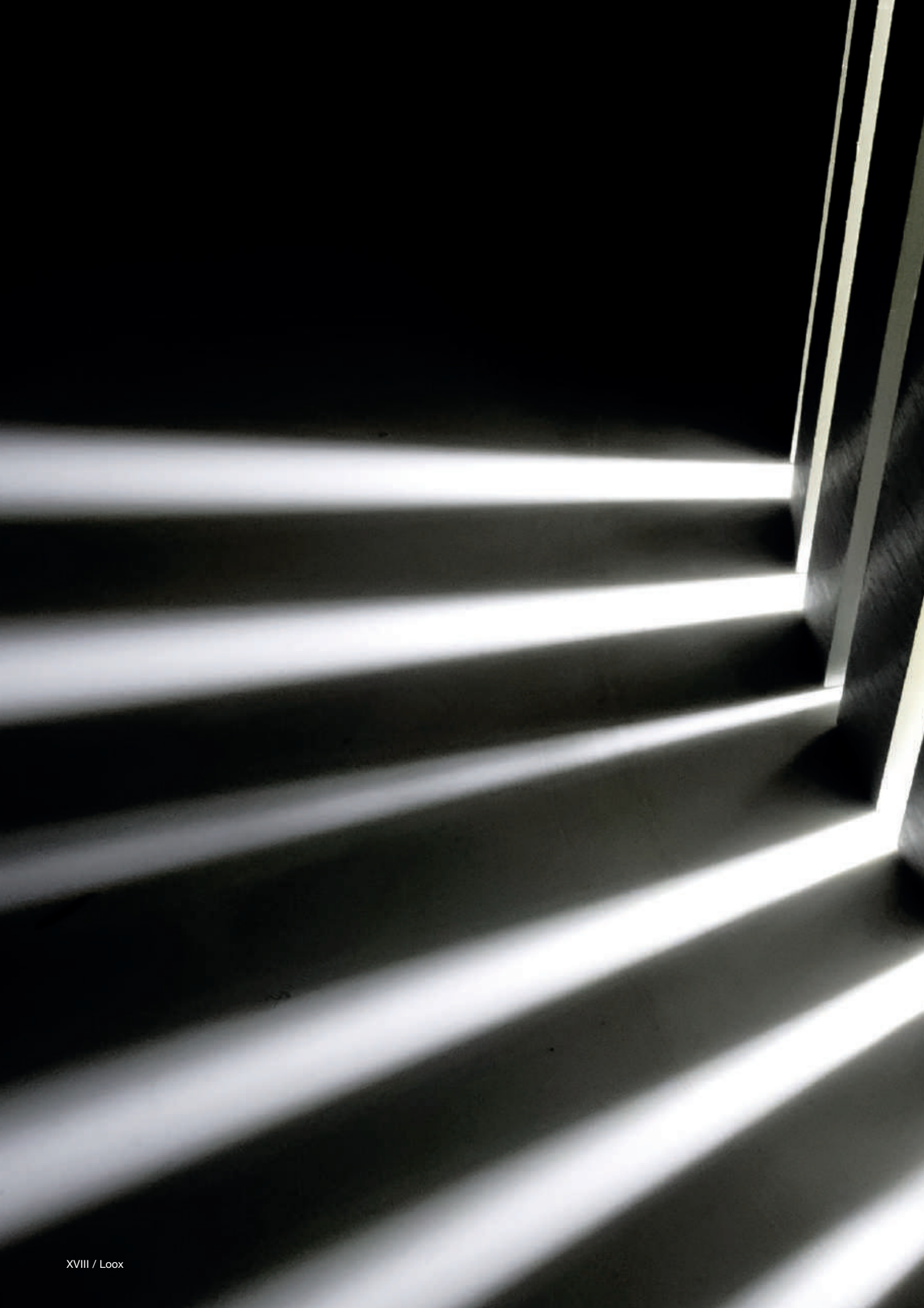
LOOX5

Linear light

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

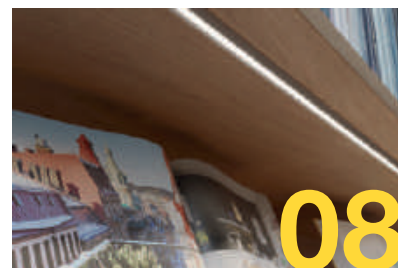|					Illuminance max. at a distance of 500 mm lx	
LED 3052	24 V	Constant current	8 mm	19.2 W/m	1840	> Page 12
LED 3051	24 V	Constant current	8 mm	14.4 W/m	1400	> Page 12
LED 3048	24 V		8 mm	14.4 W/m	1320	> Page 10
LED 3050	24 V	Constant current	8 mm	9.6 W/m	1010	> Page 12
LED 2068	12 V		8 mm	9.6 W/m	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 2062	12 V		8 mm	4.8 W/m	470	> Page 10
LED 2065	12 V		8 mm	4.8 W/m	470	> Page 10
LED 3042	24 V		8 mm	4.8 W/m	470	> Page 10
LED 2060	12 V		5 mm	4.8 W/m	430	> Page 8
LED 3040	24 V		5 mm	4.8 W/m	430	> Page 8
LED 2063	12 V	Silicone sleeve	8 mm	4.8 W/m	425	> Page 14
LED 3043	24 V	Silicone sleeve	8 mm	4.8 W/m	425	> Page 14

Accent light <150 lx at a distance of 500 mm

LED 2019	12 V	Glass edge light				> Page 33
LED 1152	12 V	Silicone light	4 mm	12-36 W/m	300	> 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
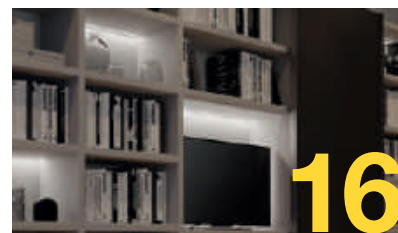
RGB lights

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

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Aluminium profiles for recess mounting

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Aluminium profiles for surface mounting

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Surface mounted aluminium profiles

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Aluminium wardrobe rail

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Plastic glass edge profile

33

Plastic profiles for recess mounting

35

Aluminium cooling strip

36

Diffusers

36

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

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Ambient light

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

	LED 2092	12 V	Recess mounted/surface mounted	Drill hole Ø 58 mm	3.4 W	**>** Page 38
	LED 3092	24 V			3.8 W	
	LED 2040	12 V	Recess mounted/surface mounted	Drill hole Ø 35 mm	1.5 W	**>** Page 42
	LED 2090	12 V	Recess mounted/surface mounted	Drill hole Ø 26 mm	1.2 W	**>** Page 44
	LED 3090	24 V				
	LED 2047	12 V	Recess mounted/surface mounted	Drill hole Ø 55 mm	3.0 W	**>** Page 46
	LED 3038	24 V				
	LED 2020	12 V	Recess mounted/surface mounted	Drill hole Ø 55 mm	3.2 W	**>** Page 48
	LED 2022	12 V	Recess mounted/surface mounted	Drill hole Ø 26 mm	1.5 W	**>** Page 50
	LED 2023	12 V	Recess mounted/surface mounted	Drill hole Ø 26 mm	1.5 W	**>** Page 52
	LED 2039	12 V	Recess mounted	Ø 58 mm	2.5 W	**>** Page 54

38
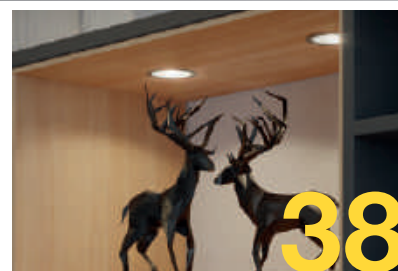
Ambient light

	LED 3010	24 V	Recess mounted/surface mounted	Drill hole Ø 60 mm	3.25 W	**>** Page 58

58
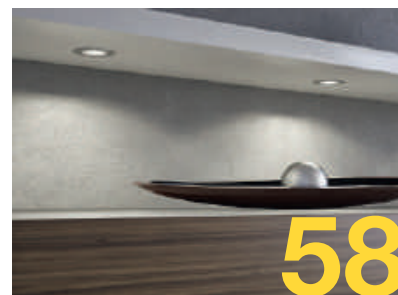
Flexible surface mounted lights

LED 2034	12 V	Surface mounted, with charging station	1.5 W	**>** Page 55
LED 2018	12 V	Recessed	2.0 W	**>** Page 56
LED 3018	24 V	Recessed	2.8 W	**>** Page 57

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Multi-white lights

LED 2091	12 V	Recess mounted/ surface mounted	Drill hole Ø 58 mm	3.4 W	**>** Page 40
LED 3091	24 V				

40
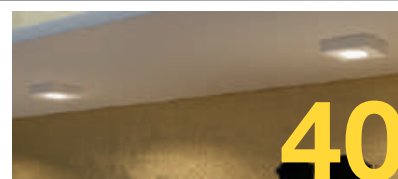
RGB lights

LED 2081	12 V	Surface mounted	65 x 65 mm	0.7 W	**>** Page 60
LED 3081	24 V				

60

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

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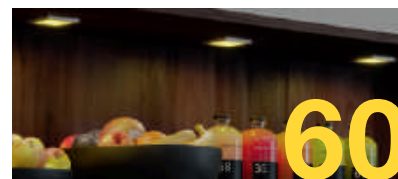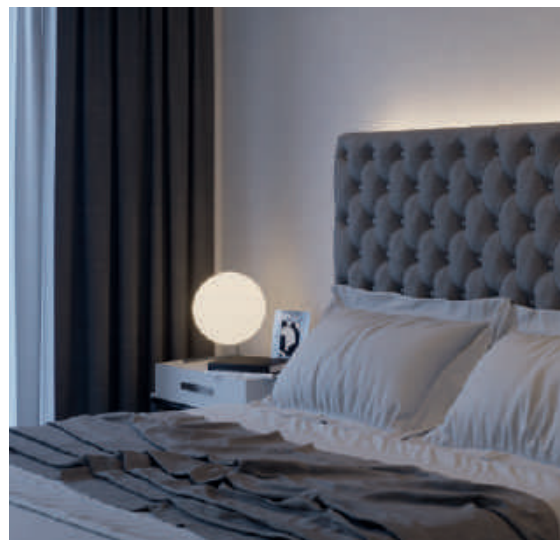
Linear light

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**

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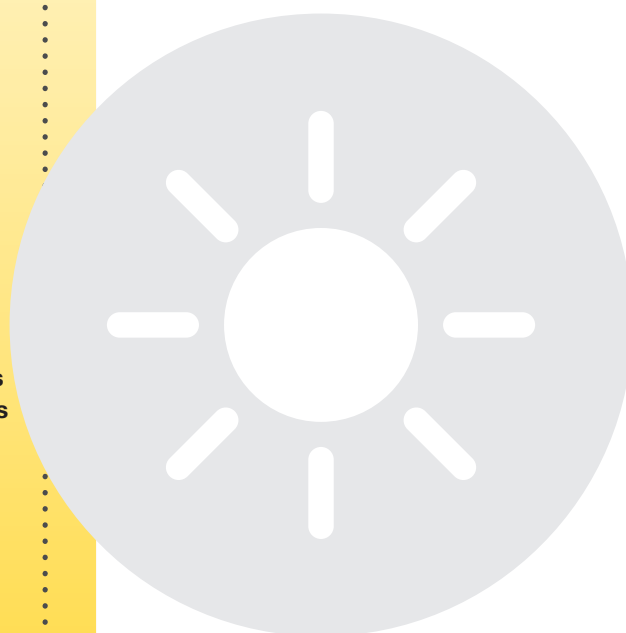
LED strip lights

Monochrome, 5 mm

Häfele Loox5 LED 2060 / 2061 / 3040 / 3041

LED 2060 / 2061

LED 3040 / 3041

EXTRA
NARROW
5 mm

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

**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

! Order reference:
Please order lead separately.

➡ Aluminium profile recommended from 9.6 W/m, see page 21

―― 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 100

5 24 V Loox5 24 V driver see page 101

! 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 106.

c(UL)us IP20

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HÄFELE

Häfele Loox5 LED 2060 / 2061 / 3040 / 3041

Volt-age	Quan-tity	Colour temper-ature	Watt-age	Lumi-nous flux	Lumi-nous efficacy	Colour render-ing index CRI		Weight. energy con-sumpt. 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 12V	**Häfele Loox5 LED 2060**												
		2700	4.8	440	92	>90	>50	5.28	25	3	4.0	**833.74.320**	**833.74.324**
	120	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												
		2700	9.6	870	91	>90	>50	10.56	25	3	3.0	**833.74.328**	**833.74.332**
	120	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 24V	**Häfele Loox5 LED 3040**												
		2700	4.8	440	92	>90	>50	5.28	50	3	8.0	**833.76.300**	**833.76.304**
	120	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												
		2700	9.6	870	91	>90	>50	10.56	50	3	5.5	**833.76.308**	**833.76.312**
	120	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 106.

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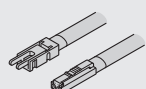
> 3.5 A/20 AWG lead
  for LED strip light 5 mm

Voltage	Length mm	Cat. No.
5 12V	2000	833.95.705
5 24V	2000	833.95.711
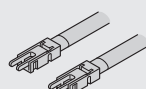
> 3.5 A/20 AWG interconnecting lead
  for 5 mm LED strip light

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

LED strip lights

Monochrome, 8 mm

ILLUMINATING

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

LED 2062

LED 2065 / 2068

LED 3042 / 3045 / 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 21

**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

—— 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 12V Loox5 12 V driver see page 100

**5 24V** Loox5 24 V driver see page 101

❗ 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 106.

🅤🅛 us IP20

HÄFELE

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

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 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 clip connector**
  for 8 mm LED strip light
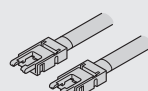
	Cat. No.
Clip connector	833.89.206

> **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

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

	Cat. No.
Corner connector rigid	833.89.187

LED strip lights

Monochrome, constant current, 8 mm

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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**
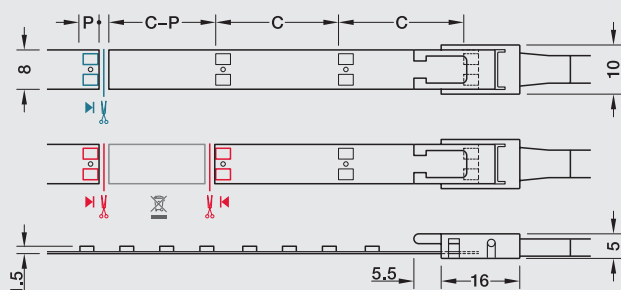
Equipped with high-quality Samsung LEDs

> 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

! Order reference:
Please order lead separately.

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

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

— 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 100

5 24 V Loox5 24 V driver see page 101

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

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Häfele Loox5 LED 2077 / 3050 / 3051 / 3052

| Volt-age	Quan-tity	Colour temper-ature	Watt-age	Lumi-nous flux	Lumi-nous efficacy	Colour render-ing index CRI		Weight. energy con-sumpt. 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 12V	**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 24V	**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 108.

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

Voltage	Length mm	Cat. No.
5 12V	100	833.93.736
	500	833.95.701
	2000	833.95.700
5 24V	100	833.75.743
	500	833.95.707
	2000	833.95.706
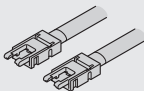
> 5 A/18 AWG interconnecting lead
  for 8 mm LED strip light

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

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LED silicone strip lights

Monochrome, 8 mm

Häfele Loox5 LED 2063 / 3043 / 3046

LED 2063

LED 3043 / 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

**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

⚠ Order reference:
Please order lead separately.
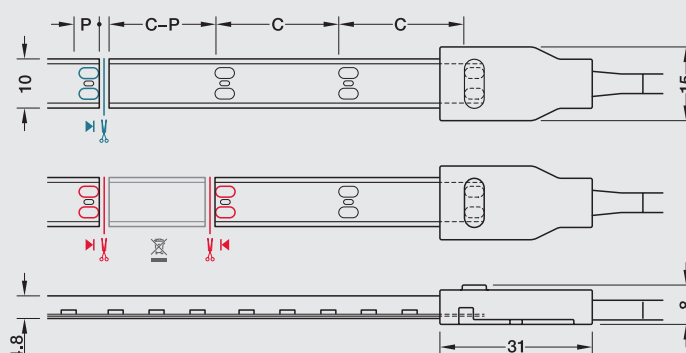
—— Cut LED strip light to length
(one contact side remains on the remainder piece; reusable)
—— Connect LED strip lights
(two contact sides required)

C = section length
P = length of contact surface

🔌 **5 12 V**   Loox5 12 V driver see page 100

5 24 V   Loox5 24 V driver see page 101

⚠ **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

c(UL)us ⫿ IP44 ⌂

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Häfele Loox5 LED 2063 / 3043 / 3046

Volt-age	Quan-tity	Colour temper-ature	Watt-age	Lumi-nous flux	Lumi-nous efficacy	Colour render-ing index CRI		Weight. energy con-sumpt. 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$_g$		mm	mm	m	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 108.

+ Degree of protection IP44
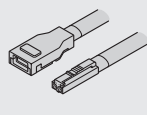
> 5 A/18 AWG lead
   for 8 mm LED silicone strip light

Voltage	Length mm	Cat. No.
5 12 V	2000	**833.95.703**
5 24 V	2000	**833.95.709**
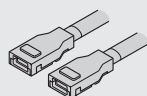
> 5 A/18 AWG interconnecting lead
   for 8 mm LED silicone strip light

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 mono-chrome LED strip lights, see Accessories page 11.

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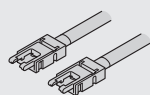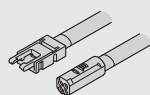
LED strip lights

Multi-white, 8 mm

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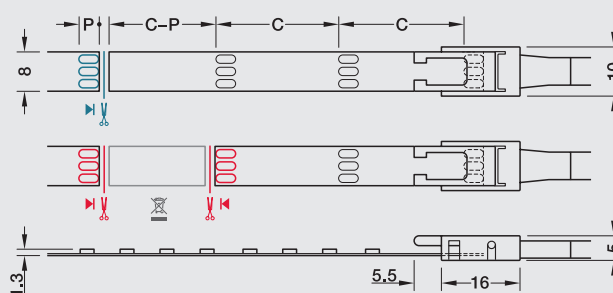
LED 2064

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 21

____ 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 100

5 **24 V**   Loox5 24 V driver see page 101

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 77.

UL us   IP20

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

Volt-age	Quan-tity	Colour temper-ature	Watt-age	Lumi-nous flux	Lumi-nous efficacy	Colour rendering index CRI		Weight. energy con-sumpt. 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 110.
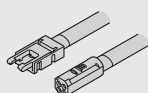
> 3.5 A/20 AWG lead
for 8 mm multi-white LED strip light

Voltage	Length mm	Cat. No.
5 12 V	2000	**833.95.702**
5 24 V	2000	**833.95.708**
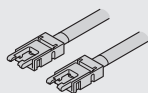
> 3.5 A/20 AWG interconnecting lead
for 8 mm multi-white LED strip light

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**

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 21

——— 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 100

5 24 V Loox5 24 V driver see page 101

✦ 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 77.

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HÄFELE

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Häfele Loox5 LED 2080 / 3080

Volt-age	Number of	Colour temperature	Wattage	Luminous flux	Luminous efficacy	Weight. energy consumpt. per m in kWh/ 1000 h	Section length C	Length of contact surface P	Max. strip length (visual)	Delivery length
V	LEDs/m	K	W/m	lm/m	lm/W	1000 h	mm	mm	m	5 m
5 12V	**Häfele Loox5 LED 2080**									
	120	RGB	9.6	530	51	10.78	25	3.8	3.0	**833.74.380**
5 24V	**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 110.

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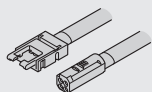
> 3.5 A/20 AWG lead
  for LED RGB strip light, 10 mm

Voltage	Length mm	Cat. No.
5 12V	2000	833.95.704
5 24V	2000	833.95.710
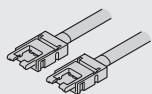
> 3.5 A/20 AWG interconnecting lead
  for LED RGB strip light, 10 mm

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

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LO□X5

LED silicone strip lights

White

Häfele Loox LED 1152
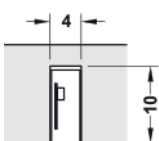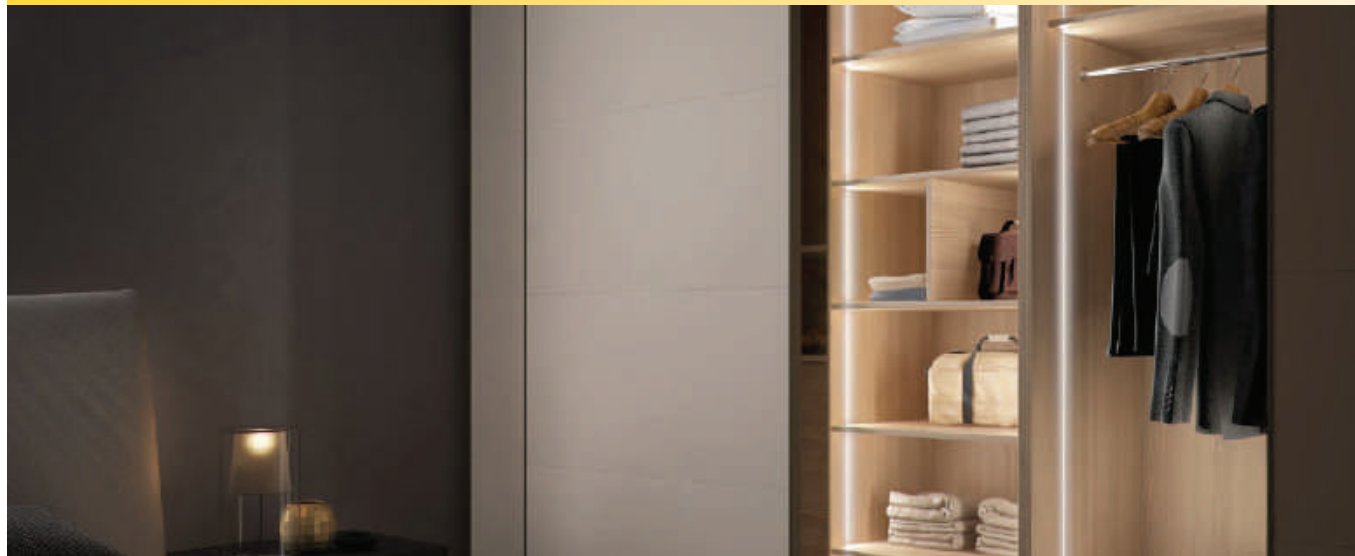
Installation in groove
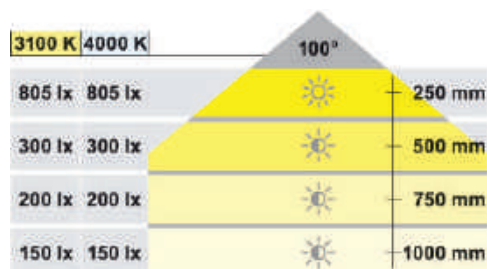
> Area of application: Kitchens, bathroom and living room
                              furniture, stores
> Version: Side LED strip light in silicone tube
> Material: Plastic
> Width: Silicone tube: 10 mm
> Finish/colour: LED strip light: White, Silicone: Milky
> Wattage: 12 W/m
> Colour rendering index: ≥80
> Installation: For push fitting into groove
> Supplied with: 1 LED strip light with 2 x 2 m soldered
                              lead 2.5 A/22 AWG (1 each on the left/
                              right of the strip)

Colour temperature K	Wattage W	Luminous flux lm	Luminous efficacy lm/W	Length mm	Cat. No.
Warm white 3100	840	12	70	1000	**833.00.988**
	2100	30		2500	**833.00.989**
	2520	36		3000	**833.00.990**
Cool white 4000	840	12	70	1000	**833.00.985**
	2100	30		2500	**833.00.986**
	2520	36		3000	**833.00.987**

| 12V | 5 12V |

Loox5 12 V driver see page 100
Please order 6-piece adapter set 833.95.753
separately.

**Illuminance value in lx applies to
1 m strip length:**

3100 K	4000 K		
805 lx	805 lx	☀	250 mm
300 lx	300 lx	☀	500 mm
200 lx	200 lx	☀	750 mm
150 lx	150 lx	☀	1000 mm

Profiles for recess mounting

Aluminium

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Häfele Loox5 profile 1104 / 1103

Häfele Loox5 profile 1104
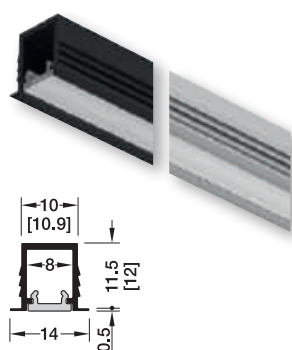
End caps

10
[10.9]
8
11.5 [12]
14
0.5

[Routing dimensions]

2.5

7.5

Häfele Loox5 profile 1103

End caps

13
[13.9]
11
11.5 [12]
17
0.5

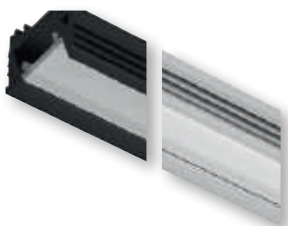[Routing dimensions]

2.5

9

> 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.
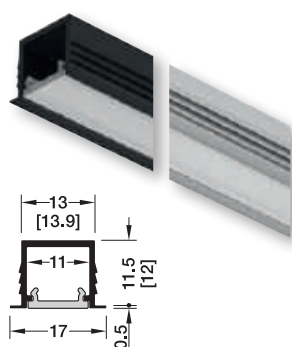
Profiles for recess mounting

Aluminium

Häfele Loox5 profile 1105, asymmetric light distribution
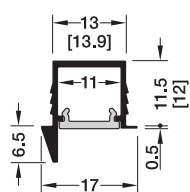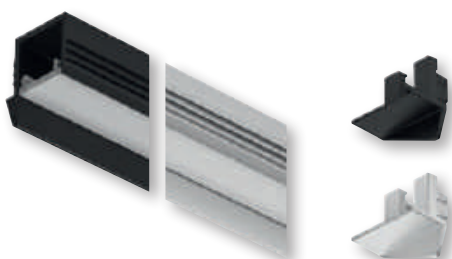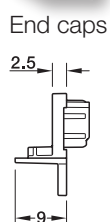
Häfele Loox5 profile 1105

End caps

[Routing dimensions]

13
[13.9]
11
11.5
[12]
6.5
0.5
17

2.5
9

> 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 37

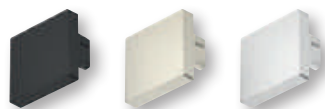LOOX 2019, HDE-en, 09/19; Dimensional data not binding. We reserve the right to alter specifications without notice.

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Profiles for recess mounting

Aluminium

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Häfele Loox profile for recess mounting
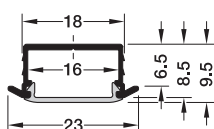
End cap

> 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 70
Diffusers see page 37

Häfele Loox profile for recess mounting
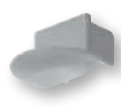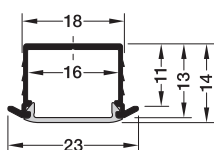
End cap

> 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 70
Diffusers see page 37

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LⓄX5

Häfele Loox5 profile 1107 / 1106, asymmetric light distribution

Häfele Loox5 profile 1107
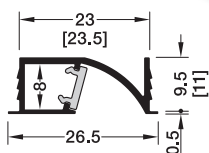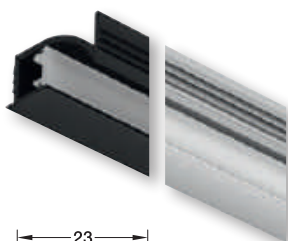
[Routing dimensions]

> 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
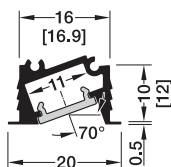
[Routing dimensions]

> ✚ **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 37

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HÄFELE

—
Profiles for surface mounting

Aluminium

Häfele Loox5 profile 2101 / 2102

Häfele Loox5 profile 2101

	11	
13		10.7
		1.3
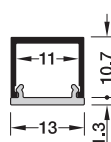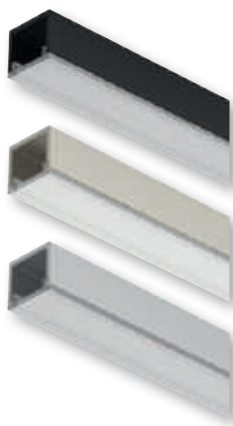
Surface mounted
diffuser

> 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 37

Häfele Loox5 profile 2102

| | 11 | |
| 13 | | 12 |
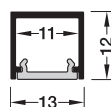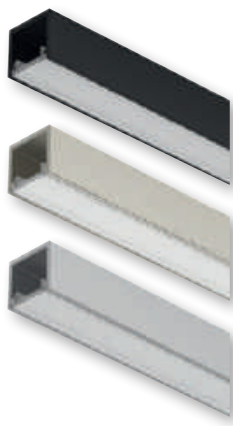
Flush recess mounted
diffuser

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Häfele Loox5 profile 2101 / 2102

Häfele Loox5 profile 2101

End caps

2.5
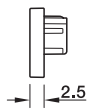
Häfele Loox5 profile 2102

End caps

2.5

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

Profiles for surface mounting

Aluminium

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Häfele Loox5 profile 2103/2104, with concealed fixing

Häfele Loox5 profile 2103
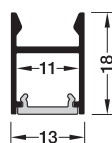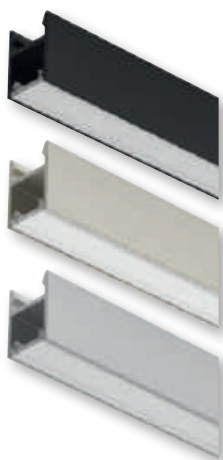
←11→ 18
←13→

**Häfele Loox5 profile 2104,
with asymmetric light distribution**

24 ←11→ 18
←13→

> 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 37

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Häfele Loox5 profile 2103 / 2104, with concealed fixing

Mounting bracket
for concealed fixing

8.9
Ø4.1
10.5
25
4.7
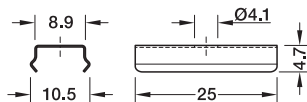
Häfele Loox5 profile 2103

End caps

2.5
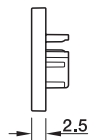
Häfele Loox5 profile 2104

End caps

2.5
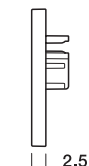
Mounting bracket
> **Material:**   Stainless steel
> **Mounting:**   For screw fixing
> **Packing::**   10 pieces

	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**

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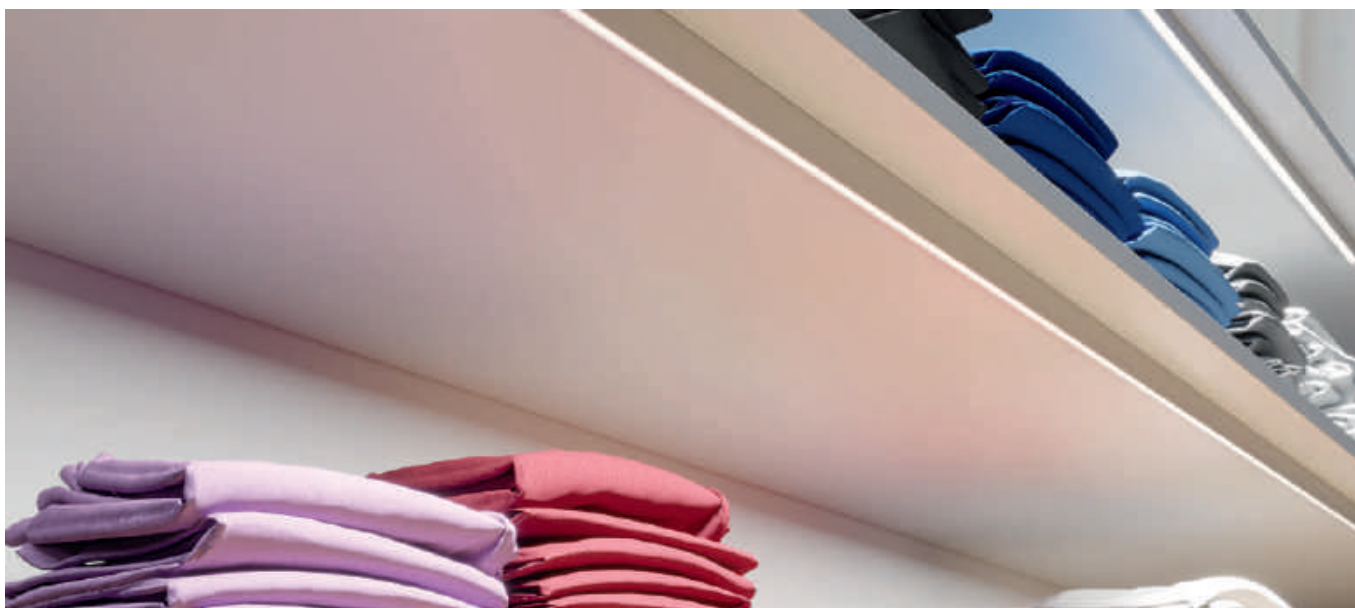
Profiles for surface mounting

Aluminium

Häfele Loox profile for surface mounting

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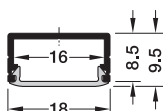
> Material: Aluminium
> Finish/colour: Silver coloured anodized
> Length x width x height: 2500 x 18 mm x 9.5 mm
> Supplied with: 1 profile, 1 diffuser

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 70
Diffusers see page 35

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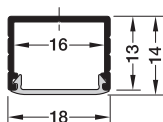
> Material: Aluminium
> Finish/colour: Silver coloured anodized
> Length x width x height: 2500 x 18 mm x 14 mm
> Supplied with: 1 profile, 1 diffuser

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 70
Diffusers see page 37

Retaining clip   Retaining clip 40°

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Profiles for under mounting

Aluminium

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Linear lens for designer profile for under mounting, with strip light recess
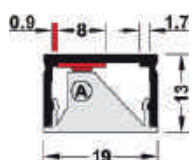
(A) Edge of recess for
LED strip light 8 mm
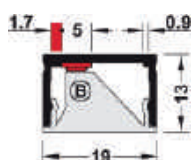
(B) Edge of recess for
LED strip light 5 mm

80-85 functional area illumination   Lateral recesses for clip connector

> Material:	Plastic
> Area of application:	Work lighting in kitchens and laboratories, cabinet interior lighting
> Suitable for:	Monochrome 5 mm or 8 mm wide Loox LED strip lights
> Degree of transmittance:	89%
> Installation:	Flush or under unit installation
> Supplied with:	1 linear lens with lateral recesses for clip connector

	Cat. No.
Diffuser - linear lens	**833.89.300**

Designer profile for under mounting, with strip light recess
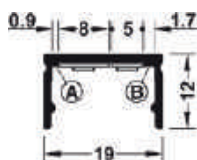
Position LED strip light directly
against the edge of the recess
(A) LED strip light 8 mm
(B) LED strip light 5 mm

> Suitable for:	Linear lens in combination with 5 mm or 8 mm wide Loox5 LED strip lights
> Material:	Aluminium
> Finish/colour:	Silver coloured
> Length:	2500 mm
> Height:	12 mm
> Supplied with:	1 aluminium profile for linear lens

	Cat. No.
Designer profile	**833.01.870**

Profiles for surface mounting

Aluminium

Häfele Loox profile for surface mounting, with attached diffuser housing
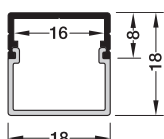
End cap   Retaining clip

Retaining clip 40°

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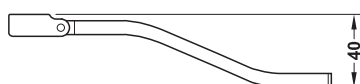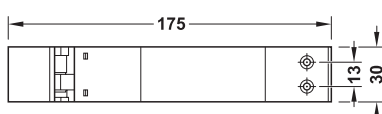
> Material:	Profile: Aluminium
	Diffuser housing: Plastic
> Finish/colour:	Profile: Silver coloured anodized
	Diffuser housing: Milky
> Length x width:	2500 x 18 mm
> Height:	18 mm
> Supplied with:	1 aluminium profile
	1 diffuser housing milky

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

End cap

> **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 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.

Profiles for surface mounting

Aluminium

Häfele Loox profile for surface mounting, asymmetric light distribution
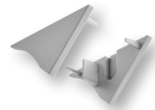
End caps
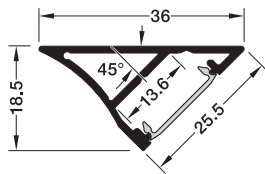
> Material:	Aluminium
> Finish/colour:	Profile: Silver coloured anodized
	Diffuser: Milky
> Version:	Indirect light output
> Length x width:	2500 x 36 mm
> Height:	18.4 mm
> Diffuser width:	16 mm
> Supplied with:	1 aluminium profile
	1 diffuser milky

	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
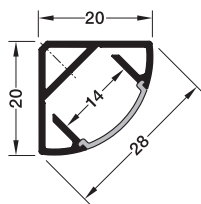
Mounting plate

> 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	**833.74.822**
Holder	**833.74.825**
Mounting plate	**833.74.826**

Profiles for surface mounting

Aluminium

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Häfele Loox drawer profile
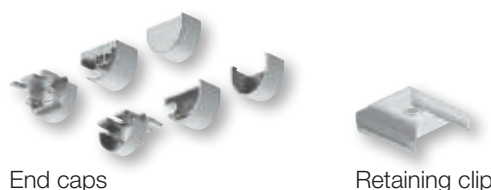
End caps   Retaining clip

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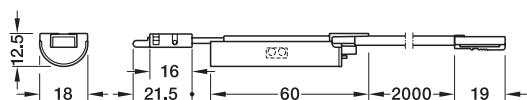
Motion detector
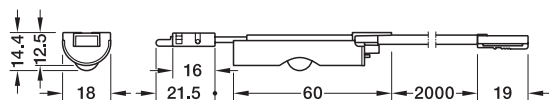
> Material: Aluminium
> Finish/colour: Profile: Silver coloured anodized
                     Diffuser: Milky
> Length x width: 2500 x 18 mm
> Height: 12.5 mm
> Supplied with: 1 aluminium profile
                     1 diffuser milky

	Cat. No.
Drawer profile	833.74.835

End 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

Profiles

Aluminium

Häfele Loox wardrobe rail, asymmetric light distribution

Rail end support, side panel
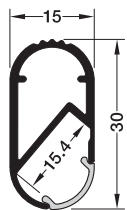
Wardrobe rail, rail centre support

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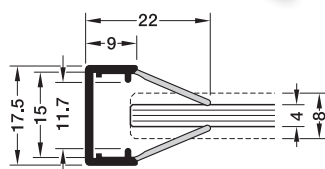
> Material:	Plastic
> Finish/colour:	Profile: Silver coloured
	Diffusers: Milky
> Length x width:	2000 x 17.5 mm
> Height:	22 mm
> Application:	For screw fixing
> Supplied with:	1 aluminium profile
	2 diffusers milky

	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.

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

Glass edge light

Monochrome

Häfele Loox LED 2019
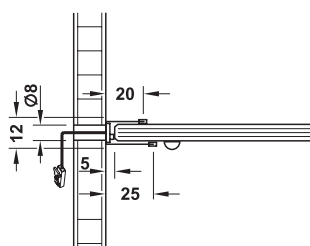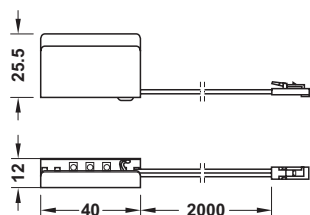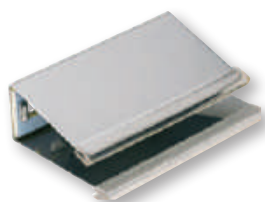
Effect of the glass edge on the light
> **Glass edge with satin finish = even light line**
> **Clear glass edge = point light**

> 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 100
Please order 6-piece adapter set 833.95.753 separately.

➡ Glass edge profile for individual lengths up to 2 m see page 34

Colour temperature	Wattage	Luminous flux	Luminous efficacy	Colour rendering index CRI	Weighted energy consumption	Finish/colour	Cat. No.
K	W	lm	lm/W	R$_a$	kWh/1000 h		
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

Profiles for recess mounting

Plastic

Häfele Loox5 profile 1102 / 1101

Häfele Loox5 profile 1102

4.5
10.5 [11]
135°
7
8.2 [8]

[Routing dimensions]

Häfele Loox5 profile 1101

8.6
10.5 [11]
135°
10.2
11.5 [11]
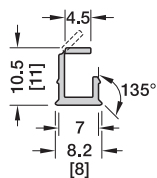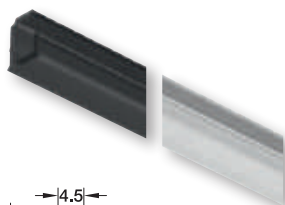
[Routing dimensions]

> 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
Profiles 1102 and 1101 suitable for use with LED strip lights up to max. 8.6 W/m.

Profile 1102 suitable for use with LED strip lights max. 5 mm wide.
Profile 1101 suitable for use only with LED strip lights with a width of precisely 8 mm.

The diffuser creates a uniform light.
The LED points in the white version are invisible from 120 LEDs/m.

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

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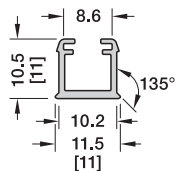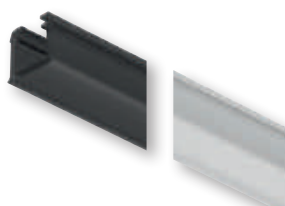
HÄFELE

Diffusers, cooling strip

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

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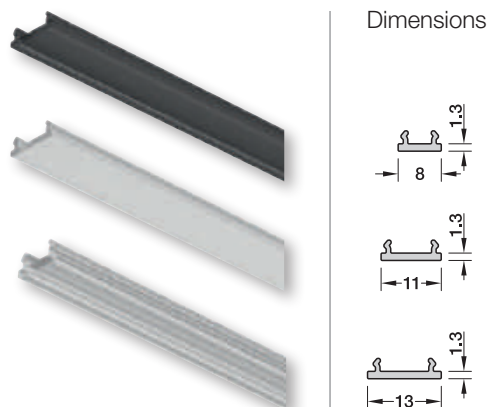
> Material: Plastic
> Length: 3000 mm
> Supplied with: 1 diffuser

Width mm	Transmittance		
	transparent, ~90 %	white opal, 70–80 %	black, ~20 %
8	833.95.797	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
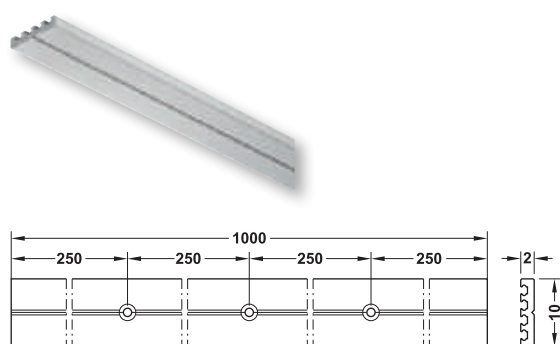
> Material: Aluminium
> Length x width: 1000 x 10 mm
> Height: 2 mm
> Mounting: For screw fixing, drill holes at 250 mm, 500 mm, and 750 mm
> Supplied with: 1 profile

	Cat. No.
Cooling strip	833.77.700

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 100
5 24 V	Loox5 24 V driver see page 101

IP20
IP44

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Häfele Loox LED 2025, Loox5 2092/3092

Voltage	Quantity	Colour temperature	Wattage	Luminous flux	Luminous efficacy	Colour rendering index CRI		Weighted energy consumption	Cat. No.
V	LEDs	K	W	lm	lm/W	R_a	R_9	kWh/1000 h	
5 12V	**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 24V	**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
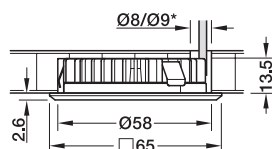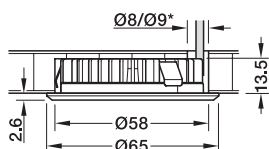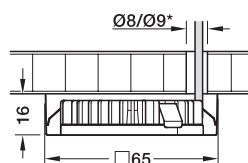
Ø8/Ø9*   13.5
2.6 Ø58
☐65

Recess mounting, square

Ø8/Ø9*   13.5
2.6 Ø58
Ø65

Recess mounting, round

Downlight housing

Ø8/Ø9*   16
☐65

Mounting as downlight, square

Ø8/Ø9*   16
Ø65
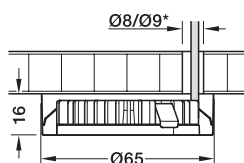
Mounting as downlight, round

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

* valid for multi-white plugs.
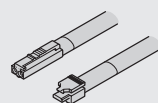
> Lead, 1.5 A/24 AWG, with snap-in connector

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

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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.

2700 K	5000 K	80°
2000 lx	2100 lx	250 mm
520 lx	550 lx	500 mm
220 lx	235 lx	750 mm
120 lx	125 lx	1000 mm

5 12 V Loox5 12 V driver see page 100

5 24 V Loox5 24 V driver see page 101

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 77

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

↓ IP20
↑ IP44

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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	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
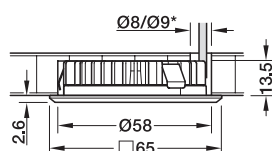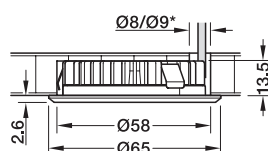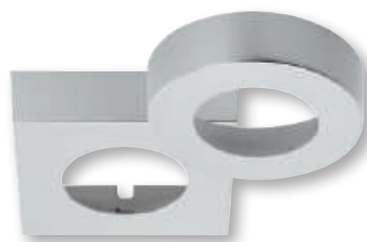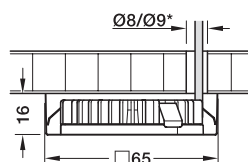
Recess mounting, square

Recess mounting, round

Downlight housing

Mounting as downlight, square
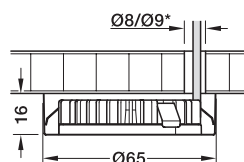
Mounting as downlight, round

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

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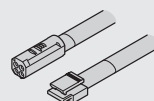
> Lead, 1.5 A/24 AWG, with snap-in connector for multi-white lights

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**
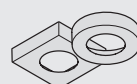
> Downlight housing, plastic

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**

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 100

HÄFELE

ILLUMINATING

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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 12V	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
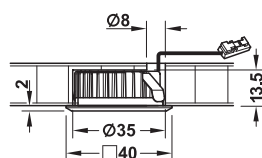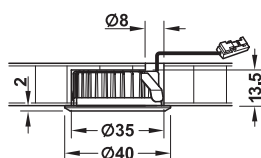
Ø8
2
13.5
Ø35
□40

Recess mounting, square

Ø8
2
13.5
Ø35
Ø40

Recess mounting, round

Downlight housing

Ø8
16
□40

Mounting as downlight, square

Ø8
16
Ø41.5
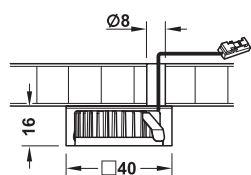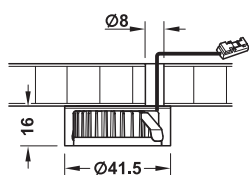
Mounting as downlight, round
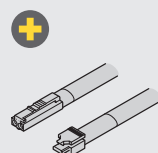
> Lead, 1.5 A/24 AWG, with snap-in connector

Voltage	Length	Cat. No.
5 12V	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**

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

LED 2090

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 3090

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

! 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 12V   Loox5 12 V driver see page 100

5 24V   Loox5 24 V driver see page 101

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Häfele Loox5 LED 2090 / 3090

Voltage	Quantity	Colour temperature	Wattage	Luminous flux	Luminous efficacy	Colour rendering index CRI		Weighted energy consumption	Cat. No.
V	LEDs	K	W	lm	lm/W	R_a	R_9	kWh/1000 h	
5 12 V	**Häfele Loox5 LED 2090**								
		2700	1.2	80	67	>90	>60	1.32	**833.72.470**
	1	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**								
		2700	1.2	75	63	>90	>60	1.32	**833.75.170**
	1	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
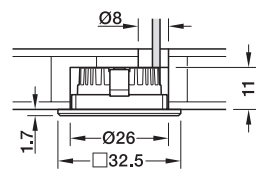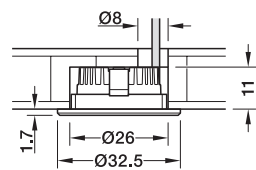
Recess mounting, square

Recess mounting, round
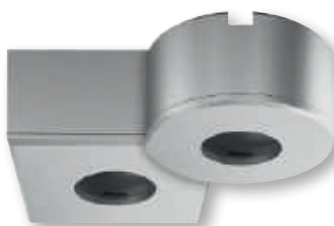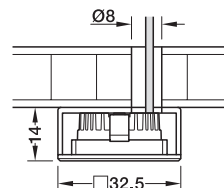
Downlight housing

Mounting as downlight, square
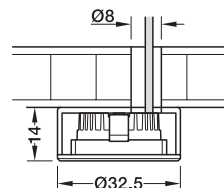
Mounting as downlight, round

> 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**
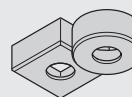
> Downlight housing, plastic

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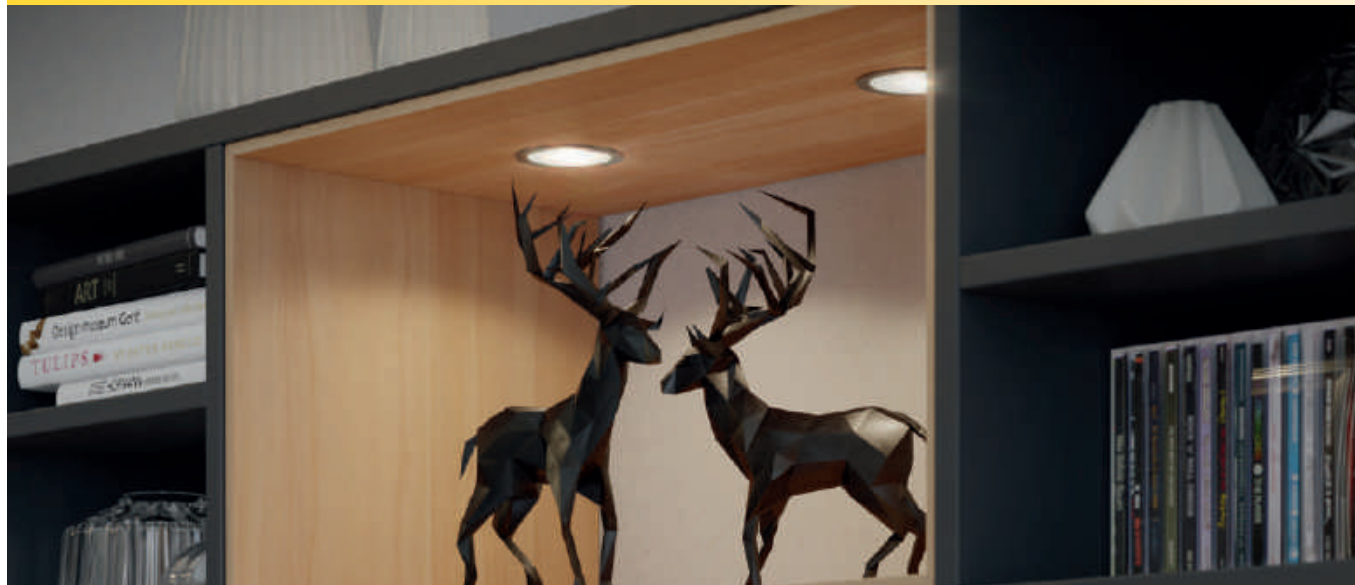
> Dimmable: Yes
> Material: Steel
> Energy efficiency class: A+
> Degree of protection: IP20
> Mounting: For mounting in drilled hole, for clamp
>   fixing or for screw fixing
> Drill hole Ø: 55 mm
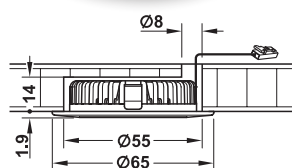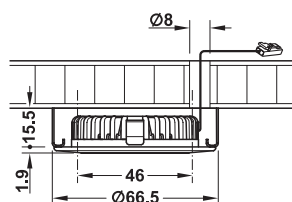> Supplied with: 1 light with 2 m lead

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 100
Please order 6-piece adapter set 833.95.753
separately.

24 V 5 **24 V**   Loox5 24 V driver see page 101
Please order 6-piece adapter set 833.77.838
separately.

eUL us IP20

HÄFELE

ILLUMINATING

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Häfele Loox LED 2047 / 3038

Volt-age V	Num-ber of LEDs	Colour temp. K	Watt-age W	Lumi-nous flux lm	Lumi-nous efficacy lm/W	Colour render-ing index CRI R$_a$	Weighted energy consumption kWh/1000 h	Stainless steel coloured	Silver coloured	Polished chrome plated	White	Black
12 V	**Häfele Loox LED 2047**											
		3000	3	210	70	90	3.3	**833.72.390**	**833.72.340**	**833.72.300**	**833.72.410**	**833.72.420**
	24	4000	3	216	72	90	3.3	**833.72.391**	**833.72.341**	**833.72.301**	**833.72.411**	**833.72.421**
		5000	3	240	80	83	3.3	**833.72.392**	**833.72.342**	**833.72.302**	**833.72.412**	**833.72.422**
24 V	**Häfele Loox LED 3038**											
		3000	3	215	72	90	3.3	**833.75.150**	**833.75.120**	**833.75.140**	-	-
	24	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**	-	-

Ø8
14
0.8
Ø55
Ø65

Recess mounting

Ø8
15.5
0.8
Ø66.5
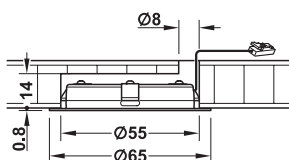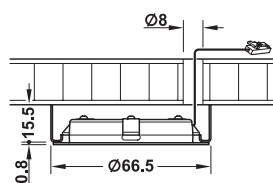
Mounting as downlight

> **Downlight housing**

Colour	Cat. No.
White	**833.72.805**
Stainless steel coloured	**833.72.804**
Silver coloured	**833.72.803**
Polished chrome plated	**833.72.802**
Black	**833.72.801**

ILLUMINATING
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LOOX5
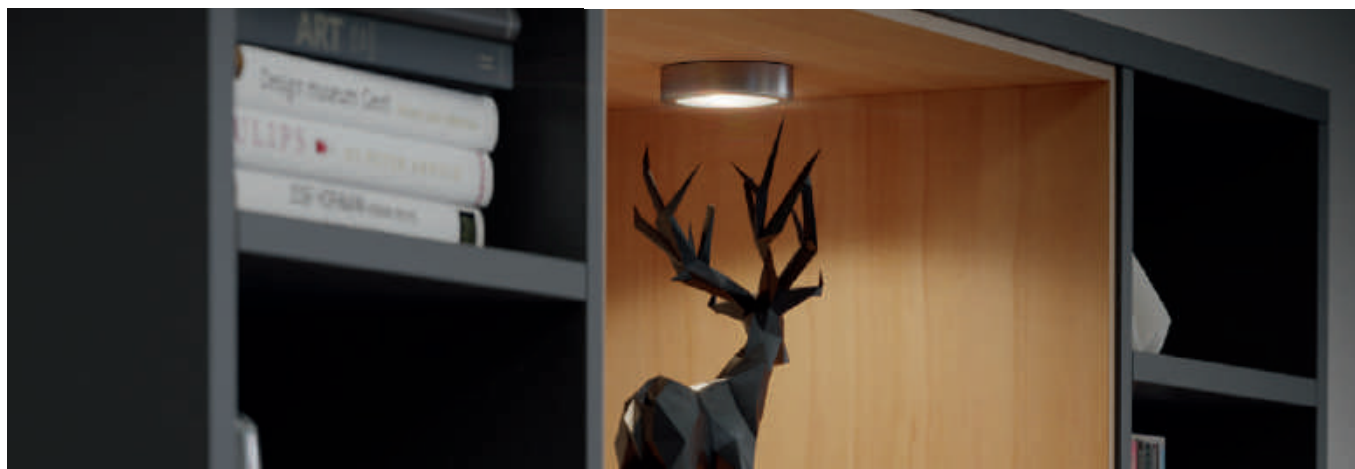
Recess/surface mounted downlights

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

3000 K	4000 K	5000 K	100°	
760 lx	860 lx	840 lx	☀	250 mm
190 lx	215 lx	210 lx	☀	500 mm
85 lx	95 lx	95 lx	☀	750 mm
48 lx	50 lx	50 lx	☀	1000 mm

12 V 5 12 V   Loox5 12 V driver see page 100
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	Colour temperature	Wattage	Luminous flux	Luminous efficacy	Colour rendering index CRI	Weighted energy consumption	Black	Matt nickel plated	Polished chrome plated
V	K	W	lm	lm/W	R_a	kWh/1000 h			
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

IP20
IP44

R36733

HÄFELE

Häfele Loox LED 2020

Recess mounting

Ø8
14
1.9
Ø55
Ø65

Mounting as downlight

Ø8
15.5
1.9
46
Ø66.5
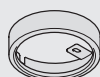
> **Downlight housing**

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

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

3000 K	4000 K	5000 K	90°	
650 lx	650 lx	650 lx		250 mm
163 lx	163 lx	163 lx		500 mm
72 lx	72 lx	72 lx		750 mm
40 lx	40 lx	40 lx		1000 mm

12 V 5 12 V Loox5 12 V driver see page 100
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	Colour temperature	Wattage	Luminous flux	Luminous efficacy	Colour rendering index CRI	Weighted energy consumption	Silver coloured anodized	Polished chrome plated
V	K	W	lm	lm/W	R_a	kWh/1000 h		
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**

ILLUMINATING
EXTENDING
SWITCHING
NETWORKING
DISTRIBUTING
SUPPLYING

Häfele Loox LED 2022

+
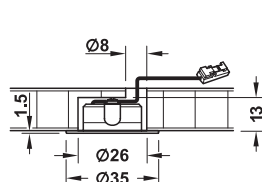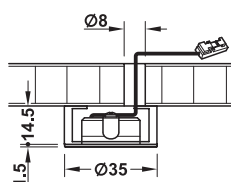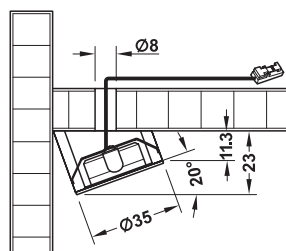
> **Downlight housing, round**

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**

Ø8
1.5
Ø26
Ø35
13

Recess mounting

Ø8
14.5
1.5
Ø35

Mounting as downlight

Ø8
11.3
23
20°
Ø35

Recess/surface mounted downlights

Monochrome, drill hole Ø: 26 mm

ILLUMINATING

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NETWORKING

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SUPPLYING

Häfele Loox LED 2023
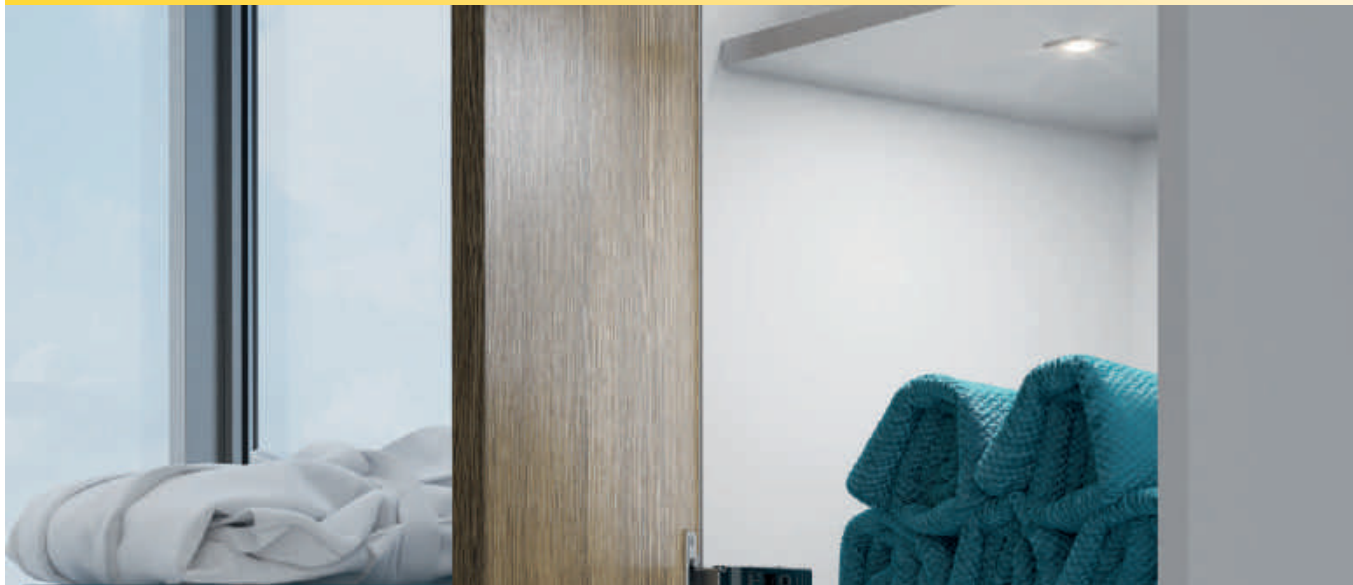
> Dimmable: Yes
> Material: Aluminium
> Length x width: 30 x 30 mm
> Energy efficiency class: A+
> Degree of protection: IP44 as recess mounted downlight;
>   IP20 with downlight housing
>   (surface mounted downlight)
> Number of LEDs: 3
> Mounting: For mounting in drilled hole, for clamp
>   fixing
> Drill hole Ø: 26 mm
> Supplied with: 1 light with 2 m lead

3000 K	4000 K	5000 K		90°
650 lx	650 lx	650 lx	☀	250 mm
163 lx	163 lx	163 lx	☀	500 mm
72 lx	72 lx	72 lx	☀	750 mm
40 lx	40 lx	40 lx	☀	1000 mm

12 V **5 12 V**   Loox5 12 V driver see page 100
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	Colour temperature	Wattage	Luminous flux	Luminous efficacy	Colour rendering index CRI	Weighted energy consumption	Silver coloured anodized	Polished chrome plated
V	K	W	lm	lm/W	R_a	kWh/1000 h		
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**

HÄFELE

Häfele Loox LED 2023

> Downlight housing, square, plastic

Colour	Cat. No.
Silver coloured	833.72.834
Chrome plated	833.72.835
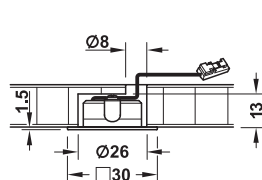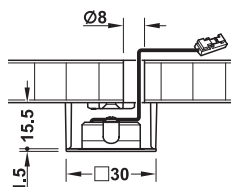
Ø8
1.5
Ø26
□30
13

Recess mounting

Ø8
15.5
1.5
□30

Mounting as downlight

ILLUMINATING

EXTENDING

SWITCHING

NETWORKING

DISTRIBUTING

SUPPLYING

Recess mounted downlights

Monochrome, drill hole Ø: 58 mm

Häfele Loox LED 2039

Ø8

14

2.5

Ø58

Ø65

3000 K	94°
785 lx	250 mm
196 lx	500 mm
87 lx	750 mm
49 lx	1000 mm
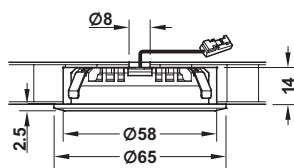
> Dimmable: Yes
> Material: Zinc alloy
> Energy efficiency class: A
> Degree of protection: IP65 after installation
> Number of LEDs: 18
> Mounting: For mounting in drilled hole, for clamp fixing
> Drill hole Ø: 58 mm
> Supplied with: 1 light with 4 m lead
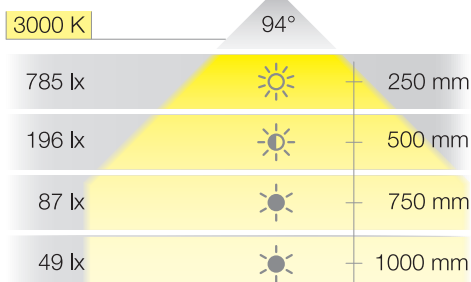
12 V **5 12 V** Loox5 12 V driver see page 100
Please order 6-piece adapter set 833.95.753 separately.

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

R36733

IP20

IP65

HÄFELE

ILLUMINATING

EXTENDING

SWITCHING

NETWORKING

DISTRIBUTING

SUPPLYING

Flexible surface mounted lights

Monochrome with USB

Häfele Loox LED 2034
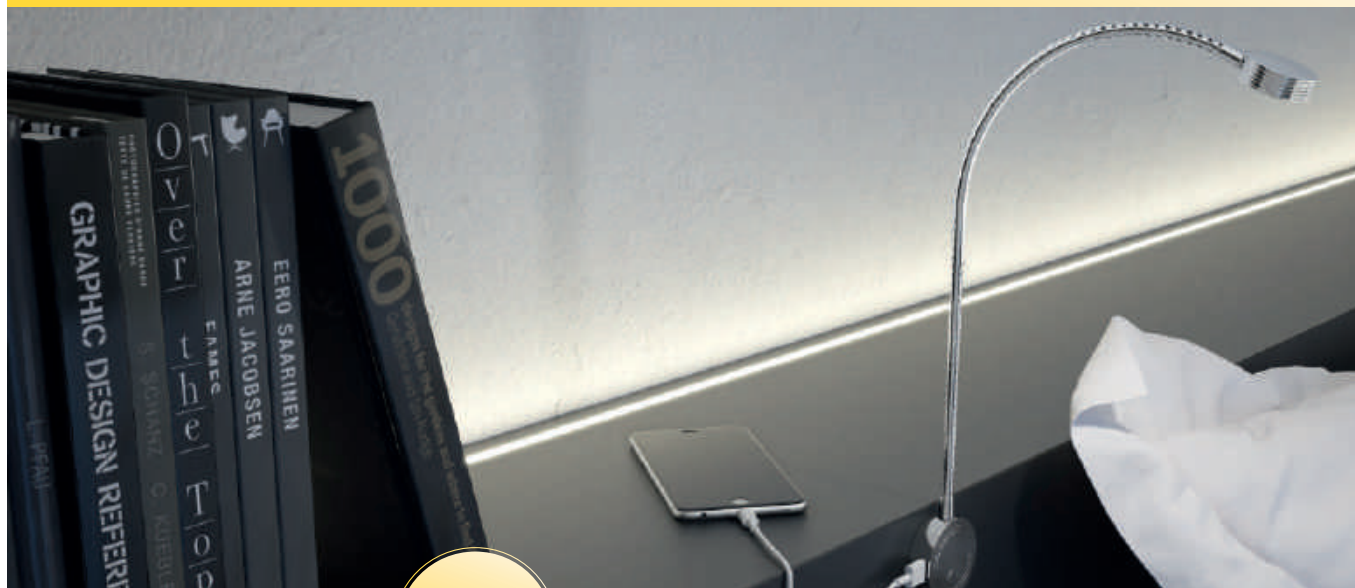
WITH USB
CHARGING
STATION
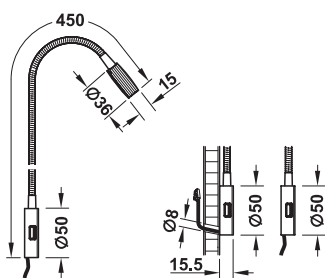
> Dimmable:	Yes	
> Version:	Integrated twin USB charging station 5 V / 2 A, integrated push switch for 2 brightness levels	
> Material:	Aluminium	
> Length x width:	450 x 50 mm	
> Height:	15.5 mm	
> Energy efficiency class:	A+	
> Degree of protection:	IP20	
> Number of LEDs:	3	
> Colour temperature:	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	

450
Ø36
15
Ø8
Ø50
15.5
Ø50
Ø50

12 V **5 12 V**   Loox5 12 V driver see page 100
Please order 6-piece adapter set 833.95.753
separately.

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

4000 K	90°
650 lx	250 mm
163 lx	500 mm
72 lx	750 mm
40 lx	1000 mm

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**

UL us R36733 IP20

L◖X5

ILLUMINATING
EXTENDING
SWITCHING
NETWORKING
DISTRIBUTING
SUPPLYING

Flexible surface/recess mounted lights
Monochrome

Häfele Loox LED 2018

450
62
Ø32
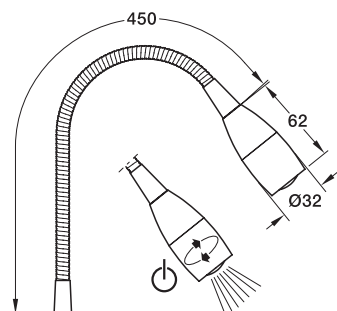
Surface mounted
Recess mounted

> 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

Ø8
33.5
22
35
15

Surface mounted

Ø15
5
29
Ø40
14
Ø13

Recess mounted

12 V **5 12 V** Loox5 12 V driver see page 100
Please order 6-piece adapter set 833.95.753
separately.
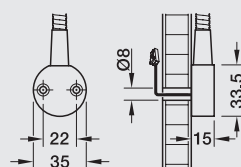
3000 K		69°
1249 lx		250 mm
312 lx		500 mm
139 lx		750 mm
78 lx		1000 mm

Voltage V	Colour rendering index CRI Rₐ	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**

UL us R36733 IP20

Flexible surface/recess mounted lights

Monochrome

ILLUMINATING

EXTENDING

SWITCHING

NETWORKING

DISTRIBUTING

SUPPLYING

Häfele Loox LED 3018

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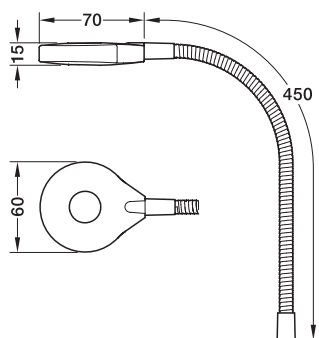
> Dimmable: Yes
> Version: With integrated dimmer on light head
> Material: Plastic, silver coloured
> Dimensions (Ø x L):   60 x 520 mm
> Energy efficiency class: A
> Degree of protection: IP20
> Number of LEDs: 30
> Colour temperature: 4000 K
> Wattage: 2.8 W
> Luminous flux: 165 lm
> Luminous efficacy: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

Surface mounted   Recess mounted
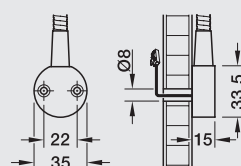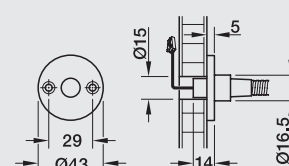
Surface mounted   Recess mounted
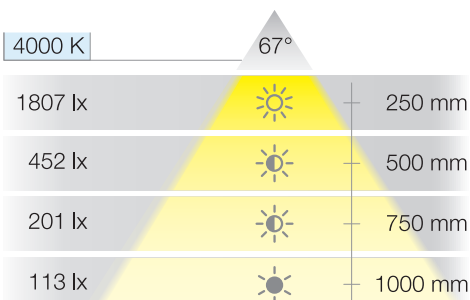
24 V 5 24 V   Loox5 24 V driver see page 101
Please order 6-piece adapter set 833.77.838 separately.

4000 K		67°	
1807 lx			250 mm
452 lx			500 mm
201 lx			750 mm
113 lx			1000 mm

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

IP20

ILLUMINATING

EXTENDING

SWITCHING

NETWORKING

DISTRIBUTING

SUPPLYING

Recess/surface mounted downlights

Monochrome, drill hole Ø: 60 mm

Häfele Loox LED 3010

> Dimmable: Yes
> Version: With frosted and clear glass cover for indi-
                            vidual 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

3000 K	4000 K	6500 K		105°
1240 lx	1325 lx	1350 lx	☀	250 mm
310 lx	331 lx	338 lx	◐	500 mm
138 lx	147 lx	150 lx	☀	750 mm
78 lx	83 lx	84 lx	☀	1000 mm

24 V **5 24 V**   Loox5 24 V driver see page 101
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	Colour temperature	Wattage	Luminous flux	Luminous efficacy	Colour rendering index CRI	Weighted energy consumption	Cat. No.
V	K	W	lm	lm/W	R_a	kWh/1000 h	
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**

c(UL)us   R36733   ⬙ III   IP20

Häfele Loox LED 3010

Downlight housing
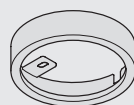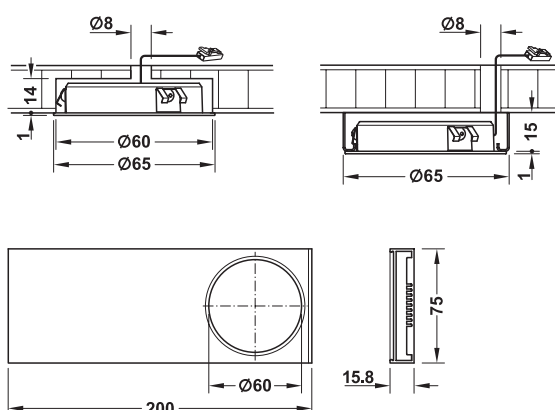
> Downlight housing, silver coloured

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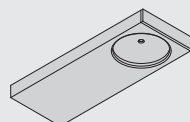
> Downlight housing, silver coloured

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

ILLUMINATING

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NETWORKING

DISTRIBUTING

SUPPLYING

Surface mounted downlights

RGB, 65 x 65 mm

Häfele Loox5 LED 2081 / 3081

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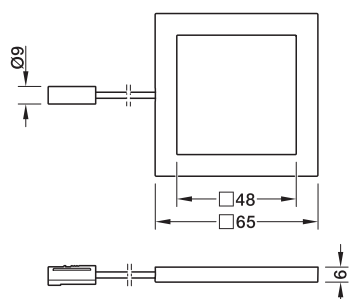
> Material: Plastic
> Length x width: 65 x 65 mm
> Height: 6 mm
> Degree of protection: IP20
> Refraction angle: 115°
> Mounting: For screw fixing
> Supplied with: 1 light with 2 m lead,
>   including fixing materials

Ø9

□48
□65

6

5 12 V   Loox5 12 V driver see page 100

5 24 V   Loox5 24 V driver see page 101

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 77

HÄFELE

ILLUMINATING

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Häfele Loox5 LED 2081 / 3081

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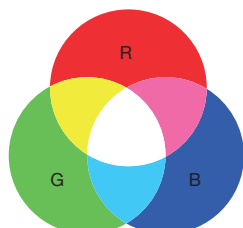
RGB lights
> Mix any combination of intensive light colours
> Creative decorative effects
> Create an invigorating or relaxing atmosphere

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**
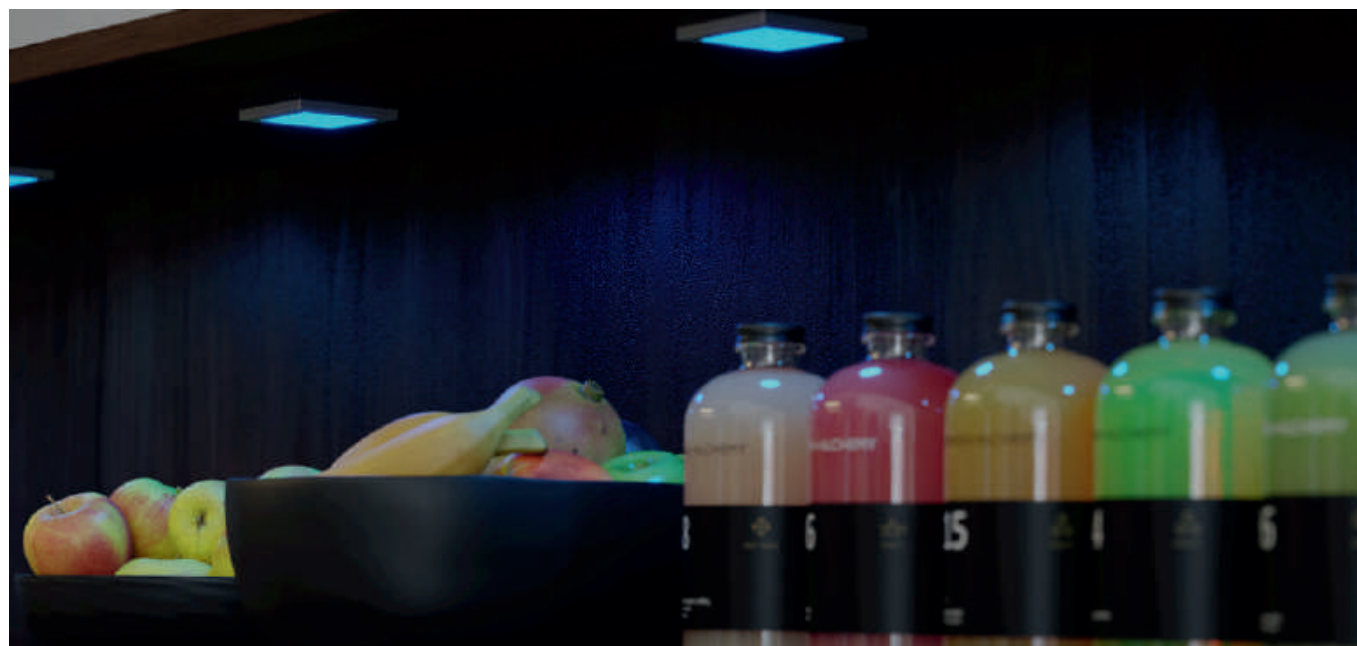
Extending

Charging stations

ESC 2002 inductive charging station   > Page 63
ESC 2001 USB charging station, modular   > Page 63

63

Sound systems

105 sound system   **>** Page 64
420 E sound system, exciter speakers   **>** Page 65

64
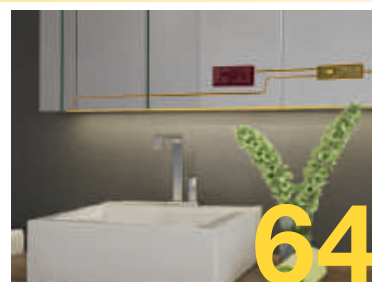
Charging stations

HÄFELE

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

| | Ø64 |
| Ø60 |
| 1.9 |
| 10.6 |

| 1.9 |
| Ø64 |
| 15 |
| Ø8 |
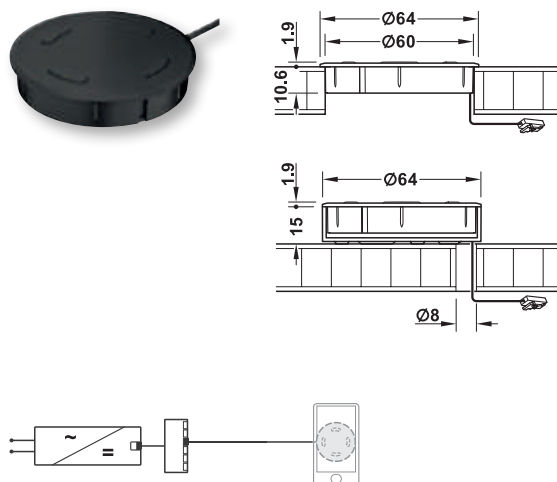
> Material/colour: Plastic, matt black
> Diameter: 64
> Charging current: 1 A
> Output voltage: 5 V
> Standby
  power consumption: 0.3 W
> Power consumption: Max. 10 W
> Standard: WPC compatible
> Supplied with: 1 inductive charging station with
                         mounting ring and 2 m lead

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 100
> Please order 6-piece adapter set 833.95.753
> separately.

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

| Ø40 |
| 24 |
| Ø35 |

| □40 |
| 24 |
| Ø35 |
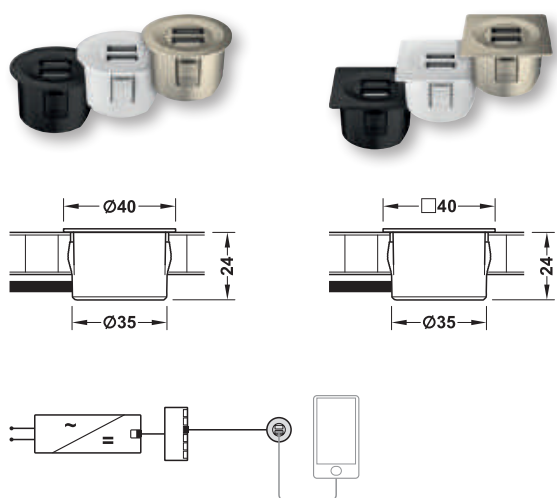
> Material: Plastic, matt
> Output voltage: 5 V
> Output current: 2 A
> Power consumption: Max. 15 W
> Drill hole Ø: 35 mm
> Mounting: For mounting in drilled hole,
                         for clamp fixing
> Supplied with: 1 USB charging station

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 100

Sound systems

ILLUMINATING

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105 sound system

> 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**

① Sound system
② 3-way distributor with switching function

! Please observe the installation regulations for bathrooms.

12 V **5** 12 V Loox5 12 V driver see page 100
Please order 6-piece adapter set 833.95.753 separately.

HÄFELE

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Sound systems

420 E sound system, exciter speakers

> Material/finish: Plastic, black
> Dim. (L x W x H):   140 x 45 x 15 mm
> Power consump-   Operation with 2 exciter speakers: Max. 19 W,
> tion: 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 100
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.

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

Switching

Sensor switches	
Sensor switch	> Page 67
Door sensor switch	> Page 67
Motion detector	> Page 67
Dimmer	> Page 68
Captive switch/ dimmer	> Page 68
Sensor switch, surface mounted	> Page 69
Door sensor switch, surface mounted	> Page 69
Dimmer, surface mounted	> Page 69

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Sensor switch for aluminium profiles	
Dimmer	> Page 70
Motion detector	> Page 70

70
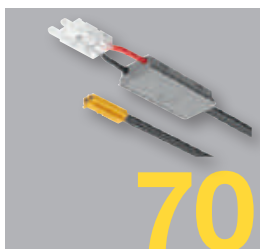
Mechanical switches	
Universal door contact switch	> Page 71
Door contact switch	> Page 71
Push switch	> Page 71
Snap in lead for switches	> Page 71
Rocker switch	> Page 72
Foot switch	> Page 72
Housing for switch, surface mounted	> Page 72

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Dimmer interface	
Dimmer interface 1–10 V, modular	> Page 73

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Multi switch box, multi driver box	
Multi switch box	> Page 74
Multi driver box	> Page 75

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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

10%   100%
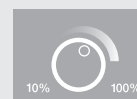
Captive switch/dimmer
Touchless on/off switching and dimming

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

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

ILLUMINATING
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Sensor switches

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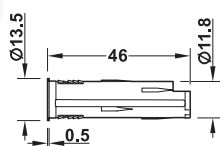
TOUCHLESS

> 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.
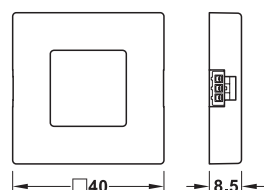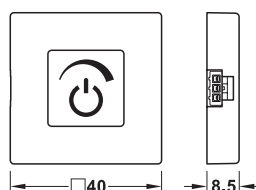See page 71

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

Häfele Loox door sensor switch, modular – soft on/off switching
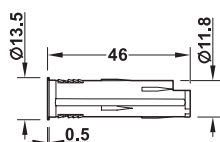
> Material/colour: Plastic, silver coloured
> Degree of protection: IP20
> Sensor range: 0–100 mm
> Power consumption: ≤0.3 W
> Drill hole Ø: 12 mm
> Supplied with: 1 switch

	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 71

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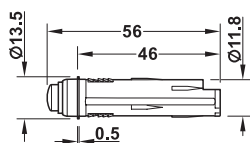
> Material/colour: Plastic, silver coloured
> Degree of protection: IP20
> Sensor range: 0–3000 mm
> Sensor angle: 120 °
> Power consumption: ≤0.1 W
> Delay time: 30 sec.
> Drill hole Ø: 12 mm
> Supplied with: 1 motion detector

	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 71

ILLUMINATING
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Sensor switches

Häfele Loox dimmer, modular – automatic on/off switching

WITH TOUCH/ TOUCHLESS
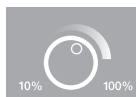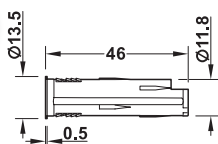
10%   100%

Ø13.5   46   Ø11.8   0.5

> 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 71

❗ 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.

Ø12   ≤30   Ø35   ≤30   9
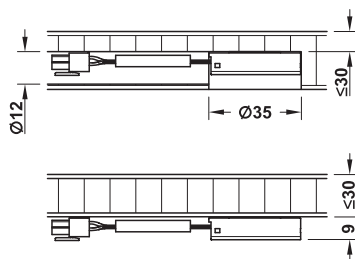
> Manual operation (proximity sensor), memory function
> Concealed installation in wood, glass or stone (not in metalliferous materials) at a maximum depth of 30 mm
> For screw fixing or recess mounting (drill hole Ø 35 mm)
> A distance of min. 500 mm to electromagnetic fields (power lines, microwave) 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 71

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

ILLUMINATING   EXTENDING   SWITCHING   NETWORKING   DISTRIBUTING   SUPPLYING

Sensor switches

HÄFELE

ILLUMINATING

EXTENDING

SWITCHING

NETWORKING

DISTRIBUTING

SUPPLYING

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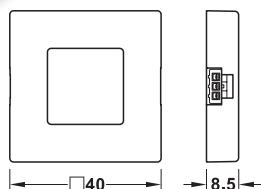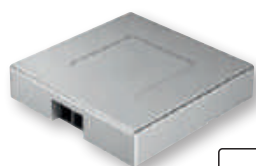
TOUCHLESS

> 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

□40   8.5

➕ Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142. See page 71

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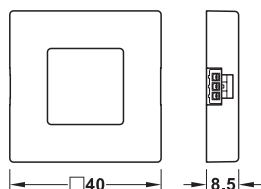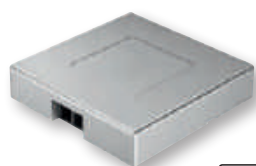
> Material/colour: Plastic, silver coloured
> Dim. (L x W x H):   40 x 40 x 8.5 mm
> Degree of protection: IP20
> Sensor range: 0–100 mm
> Power consumption: ≤0.3 W
> Supplied with: 1 switch with fixing material

	Cat. No.
Door sensor switch, surface mounted	833.89.137

□40   8.5

➕ Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142. See page 71

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

WITH TOUCH/ TOUCHLESS

10%   100%

> 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
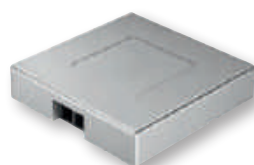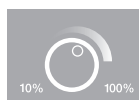
With touch function   Touchless

□40   8.5   □40   8.5

➕ Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142. See page 71

❗ 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

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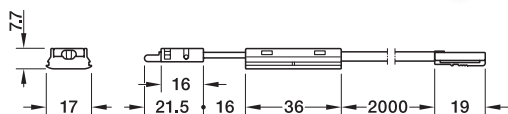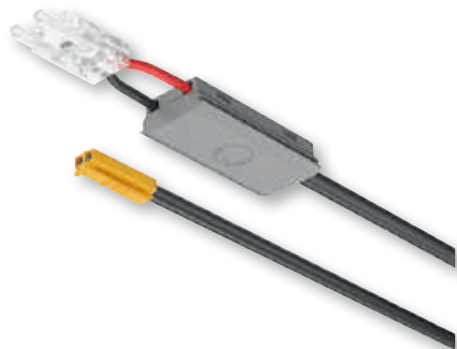
> Area of application:	For monochrome 8 mm Loox5 LED strip lights in aluminium profiles with 16 mm internal width
> Material/colour:	Plastic, silver coloured
> Drill hole Ø:	Plug 8 mm
> Mounting:	For push fitting into aluminium profile
> Supplied with:	1 switch with clip/plug and 2 m lead

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 23 and page 29

Loox5 aluminium profile motion detector – automatic on/off switching
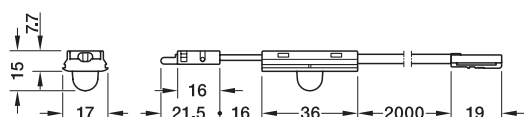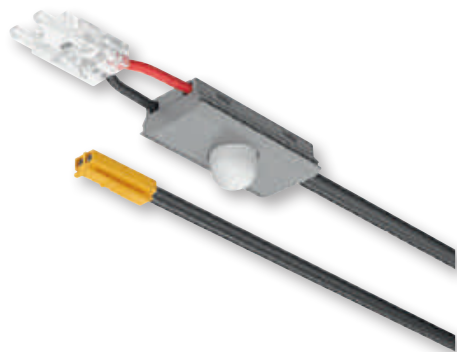
> Area of application:	For monochrome 8 mm Loox5 LED strip lights in aluminium profiles with 16 mm internal width.
> Material/colour:	Plastic, silver coloured
> Drill hole Ø:	Plug 8 mm
> Mounting:	For push fitting into aluminium profile
> Sensor range:	0–3000 mm
> Delay time:	30 sec.
> Supplied with:	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 23 and page 29

Mechanical switches

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

> 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**

9.8   42   24   40   14.2
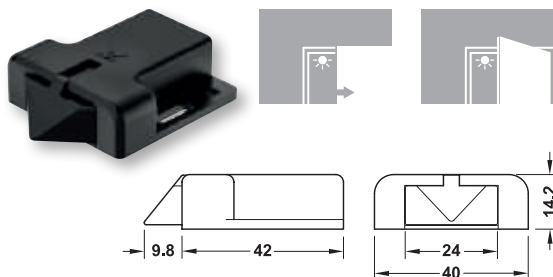
The universal door contact switch is suitable for hinged doors or single-leaf sliding doors.

➕ 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

28   12   15   5
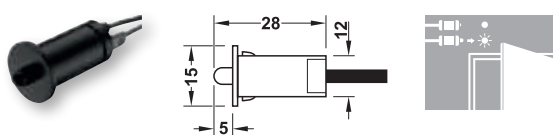
> Degree of protection: IP20
> Drill hole Ø: 12 mm
> Supplied with: 1 switch with 2 m lead

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
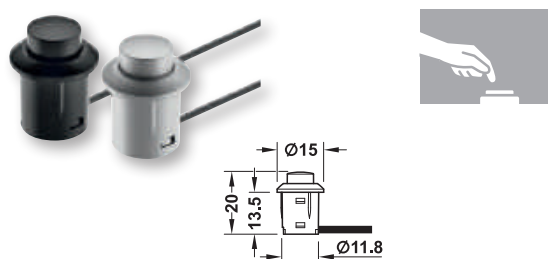
Ø15   20   13.5   Ø11.8

> 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

Mechanical switches

Häfele Loox rocker switch – on/off switching

Ø15 · 17.7 · 13.8 · Ø11.8
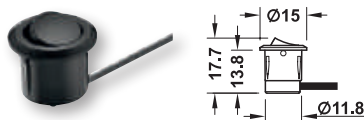
	Cat. No.
> Material/colour:	Plastic, black
> Diameter:	15 mm
> Height:	17.7 mm
> Drill hole Ø:	12 mm
> Supplied with:	1 switch with 2 m lead

	Cat. No.
Rocker switch	833.89.106

! Drill hole Ø for plug: 12 mm

Häfele Loox foot switch – on/off switching

20 · 8 · 2000 · Ø70
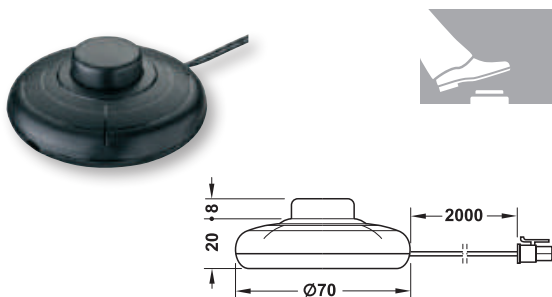
> Material/colour:	Plastic, black
> Diameter:	70 mm
> Height:	28 mm
> Degree of protection:	IP20
> Supplied with:	1 switch with 2 m lead

	Cat. No.
Foot switch	833.89.046

! Drill hole Ø for plug: 12 mm

Housing for switch, surface mounted

48 · 17 · 16.5 · 45 · Ø16 · 1.5 · Ø12 · Ø14 · 17.1 · 16 · 48
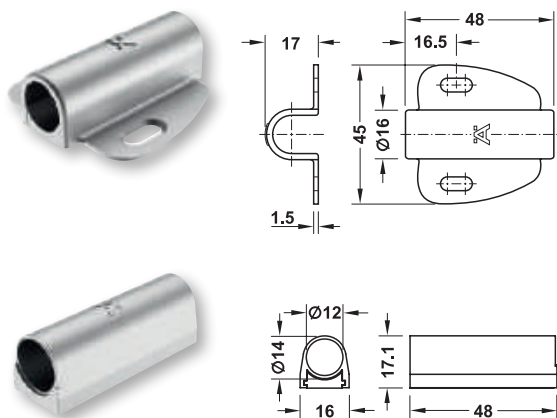
> Material/colour:	Plastic, silver coloured
> Supplied with:	1 housing
> Application:	For switch Ø 12 mm

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

Dimmer interface

HÄFELE

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Häfele Loox dimmer interface 1–10 V, modular – for 12 V, 24 V and 350 mA systems
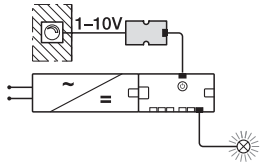
Installation example: Wall dimmer with 1–10 V control output. No connection of the dimmer to mains voltage!

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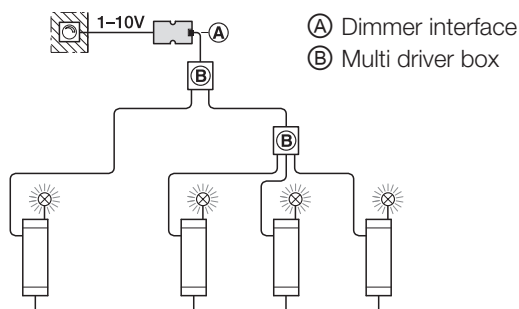
Installation example: Multi driver boxes for controlling several drivers (12 V, 24 V) or distributors with switching function.
No connection of the dimmer to mains voltage!

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

Multi switch box

Häfele Loox multi switch box
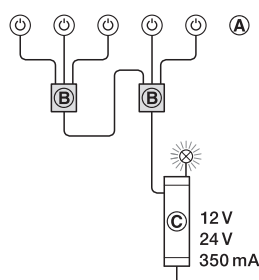
Ⓐ Switch
Ⓑ Multi switch box
Ⓒ Driver

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.

Multi driver box

Häfele Loox multi driver box

Ⓐ Switch
Ⓑ Multi driver box
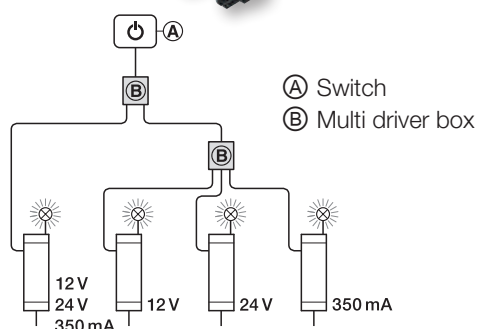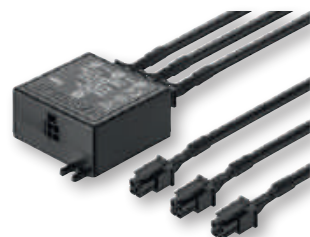
Up to 3 LED drivers with different voltages or distributors with a switching function can be controlled with 1 switch.
Several lights in the room can be switched on and off with one switch.
These can also be 3 of the same driver if you require additional power in a 12 V system, for example.

> 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.

Networking

Networking

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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**

interzum
Award
High product quality
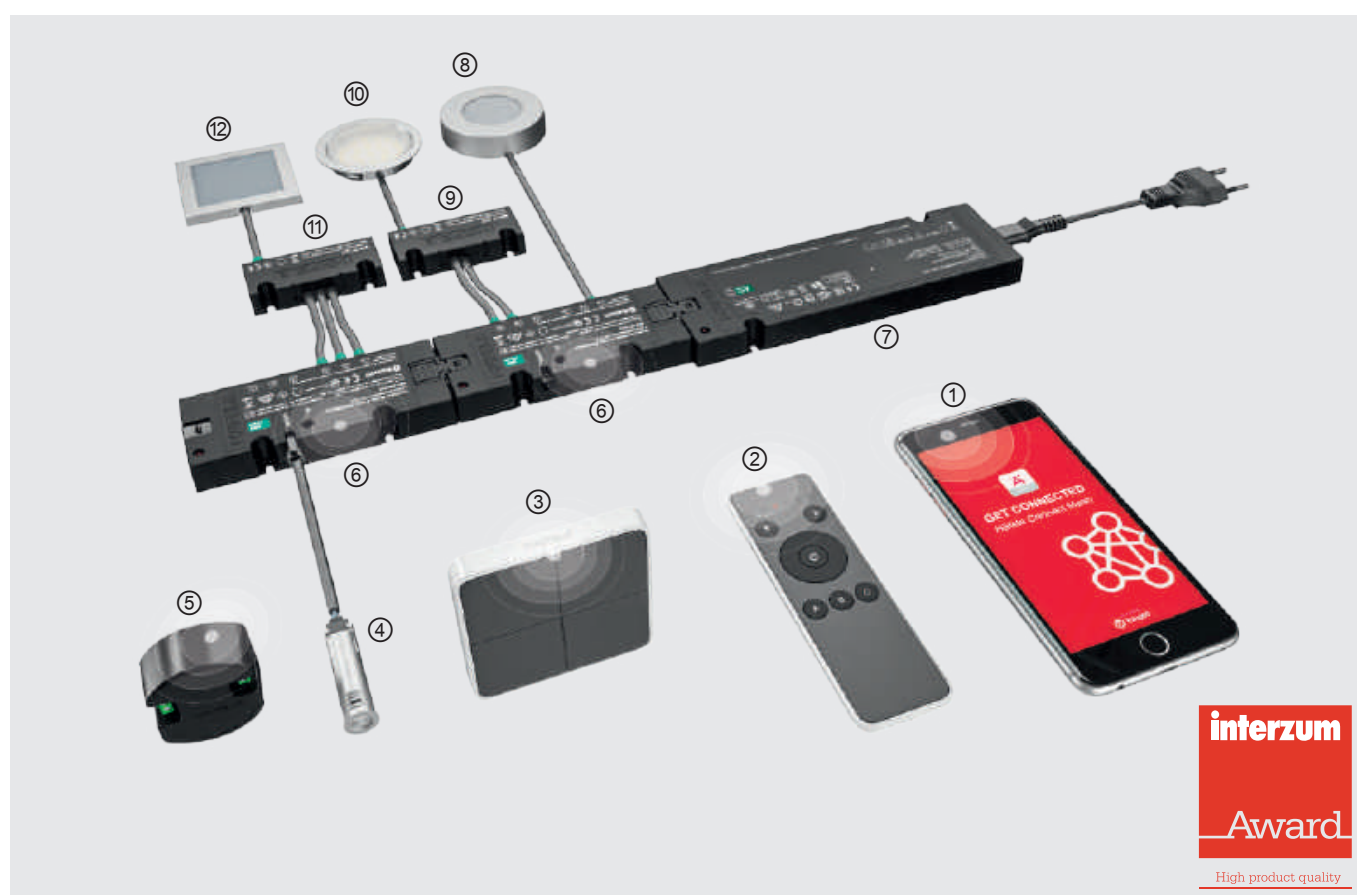
Häfele Connect Mesh active components
> Sensor
① Mobile device with Häfele Connect app
② Remote control
③ Push button, wall mounted
④ Loox switch (switching function programmable via app)
> Actuator and sensor
⑤ 2-channel interface: 2 switching input ports
   (switching function programmable via app)
   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.

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™.**

MESH
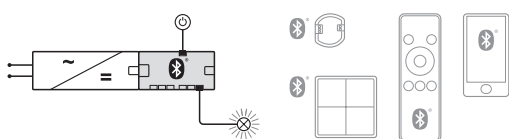
> Area of application:	For on/off switching and dimming (0–100%) of monochrome lights; or, in conjunction with adapters, for the operation of multi-white lights, RGB lights, and electrically operated fittings
> Version:	With programmable switching input For standard Loox switches (switching function 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 79

6-way distributor for monochrome lights or other 2-pin devices, such as electrically operated fittings, see page 84

Adapters

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Häfele Loox5 multi-white adapter for Häfele Connect Mesh 6-way distributor
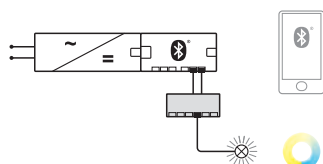
> Area of application:	For connecting multi-white lights to the Häfele Connect Mesh 6-way distributor
> Material/colour:	Plastic, black
> Dim. (L x W x H):	70 x 30 x 14 mm
> Number of connections:	2x input port with plug, monochrome 6x output ports device sockets, multi-white
> Supplied with:	1 distributor 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
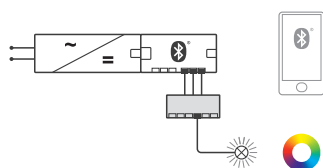
> Area of application:	For connecting RGB lights to the Häfele Connect Mesh 6-way distributor
> Material/colour:	Plastic, black
> Dim. (L x W x H):	70 x 30 x 14 mm
> Number of connections:	3x input port with plug, monochrome 6x output ports for device sockets, RGB
> Supplied with:	1 distributor with 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
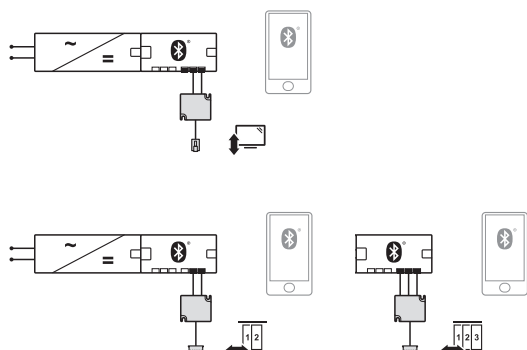
| > Area of application: | For connecting electrically operated fittings to the Häfele Connect Mesh 6-way distributor. |
| > Supplied with: | 1 distributor |

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

Remote controls

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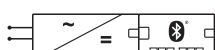
Easiness
> **One remote control for all applications: monochrome lights, multi-white lights, RGB lights and electrically operated fittings**

> 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
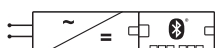
> Area of application:	For controlling components on the 6-way distributor, Häfele Connect Mesh (all functions that are accessible by pressing or holding a button)
> Function:	Easy, direct pairing with a 6-way distributor or programming of buttons via app to control each node of the network
> Version:	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.

Interface electrical installation

HÄFELE

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Häfele Connect Mesh 2-channel interface, with potential free relay
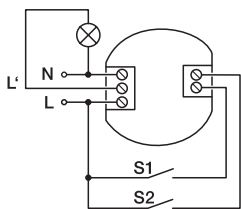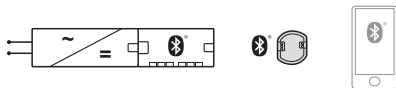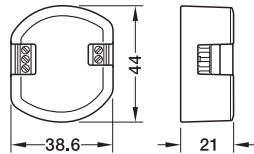
Installation example
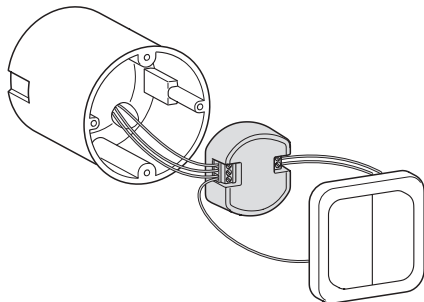
Installation in a deep switch box

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 77.
> 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

Distributing

Distributor

Häfele Loox5 6-way distributor	> Page 84	
Häfele Connect Mesh 6-way distributor.	**Chapter Networking** > Page 76	

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Extension leads

Extension lead mono-chrome/2-pin	> Page 85
Extension lead multi-white	> Page 85
Extension lead RGB	> Page 85
4-way extension lead mono-chrome/2-pin	> Page 86

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Modular leads

Lead for modular lights and other modular devices	> Page 86

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Switch leads

Extension lead for switch	> Page 87
Lead for modular switches	> Page 87
Lead for switches	> Page 87

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Leads and connectors for LED strip lights

Leads for LED strip light monochrome, 5 mm	> Page 88
Leads for LED strip light monochrome, 8 mm	> Page 89
Leads for LED silicone strip light monochrome, 8 mm	> Page 90
Leads for LED strip light multi-white, 8 mm	> Page 91
Leads for LED strip lights RGB, 10 mm	> Page 92

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Adapters

Adapters Loox / Loox5	> Page 93

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Cable routing

Cable channel	> Page 95
Cable cover	> Page 95

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Mirror

Multi dimensional mirror	> Page 96

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Mains leads

Country-specific main leads, socket C7	> Page 104
Country-specific main leads, socket C13	> Page 104

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HÄFELE

Distributing

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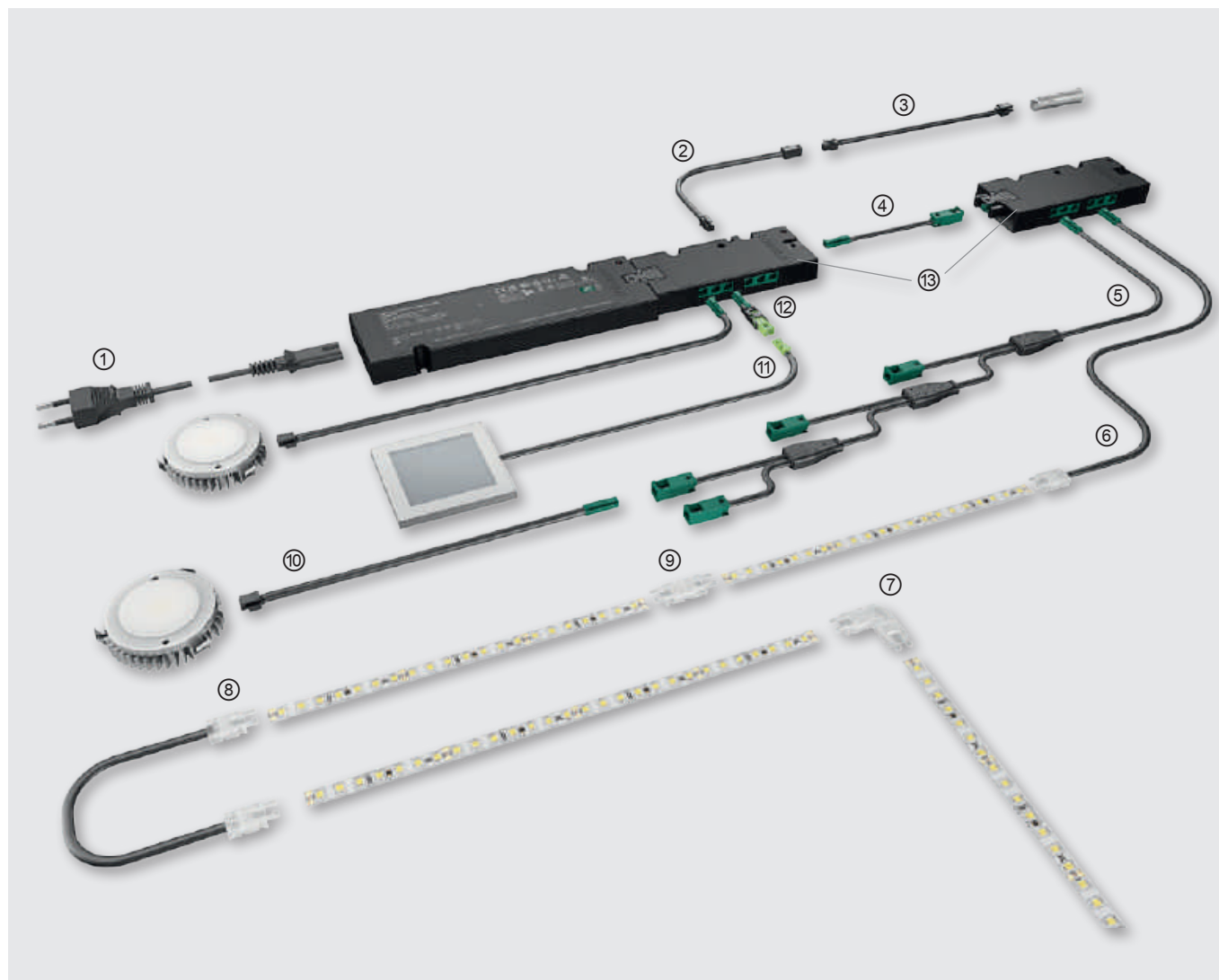
1. Mains lead
2. Extension lead for switch
3. Lead for modular switches
4. Extension lead
5. 4-way extension lead
6. Lead for LED strip light
7. Corner connector for LED strip light
8. Interconnecting lead for LED strip light
9. Clip connector for LED strip light
10. Lead for modular lights
11. Light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

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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 77

Häfele Loox5 box to box 6-way distributor with 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
                                  1 x input port switch socket
                                  6 x output ports device sockets
> Supplied with: 1 distributor
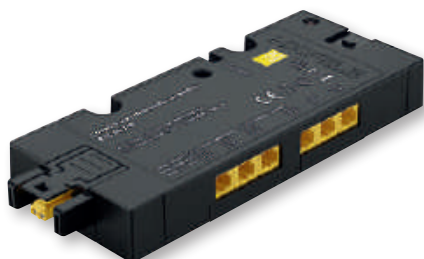
1 switch controls all output ports
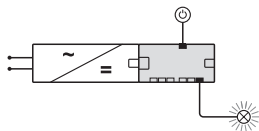
Voltage	Max. connected wattage W	Box to box with switching function
5 12V	60	833.95.748
5 24V	90	833.77.833

Häfele Loox5 box to box 6-way distributor without switching function
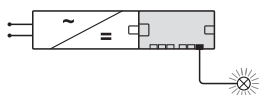
> Material: Plastic
> Colour: Black
> Dim. (L x W x H):   120 x 50 x 16 mm
> Number of connections: 1 x input port with box to box plug
                                  1 x output port with box to box socket
                                  6 x output ports device sockets
> Supplied with: 1 distributor

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

Häfele Loox5 6-way distributor without switching function

> 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

Can also be connected to 6-way distributor
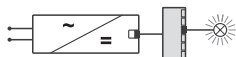
Voltage	Max. connected wattage W	Without switching function
5 12V	60	833.95.786
5 24V	90	833.77.839

Extension leads

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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

Ø8
19

12 V monochrome

Ø13
23.5
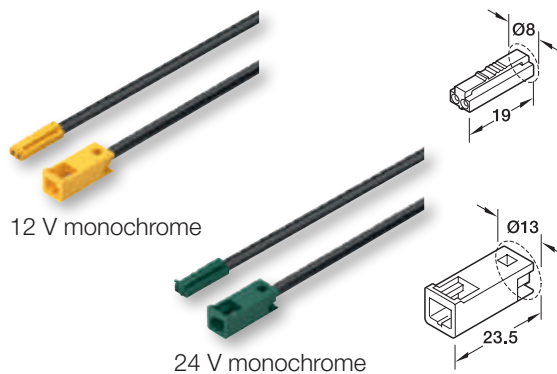
24 V monochrome

> 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

Ø9
19

12 V multi-white

Ø13
23.5
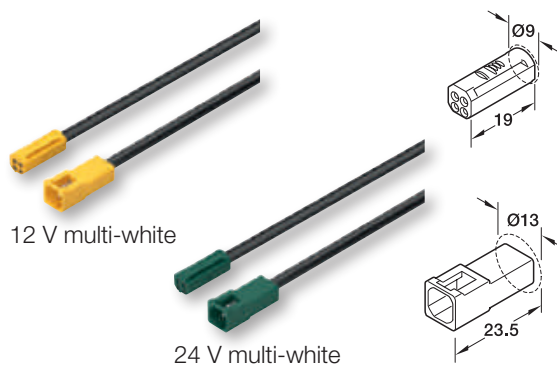
24 V multi-white

> 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

Ø9
19

12 V RGB

Ø13
23.5

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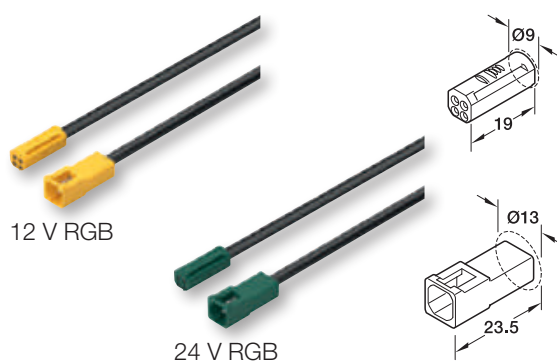
> Area of application: For RGB lights
> Material: Plastic
> Current carrying capacity: Max. 3.5 A
> Drill hole Ø: Plug 9 mm, socket 13 mm
> Supplied with: 1 extension lead
1 plug/1 socket

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

Extension leads

ILLUMINATING

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Häfele Loox5 4-way extension leads

12 V monochrome

24 V monochrome

Ø8
19
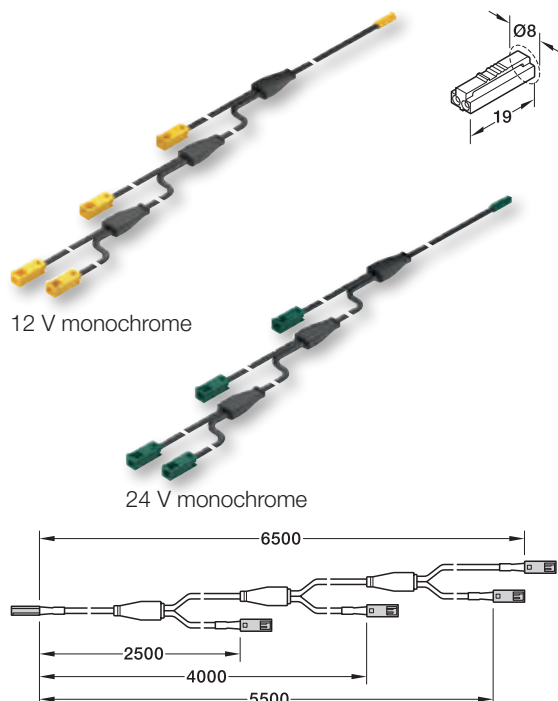
> Area of application: For monochrome lights and other 2-pin
                              devices and distributors
> Current carrying capacity: Max. 5 A
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 extension lead
                              1 plug/4 sockets

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

6500
2500
4000
5500

⚠ 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 lead for modular lights and other modular devices

12 V monochrome

24 V monochrome

Ø8
19
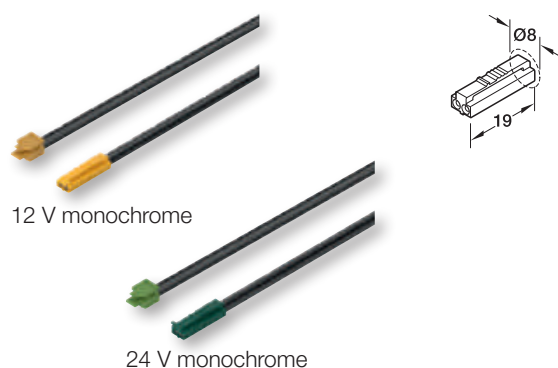
> Area of application: For monochrome lights and other 2-pin
                              devices and distributors
> Version: With snap-in connector
> Current carrying capacity: Max. 1.5 A
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 lead plug/plug

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

Ø9
19

> 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

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

Ø8

19

12 V monochrome
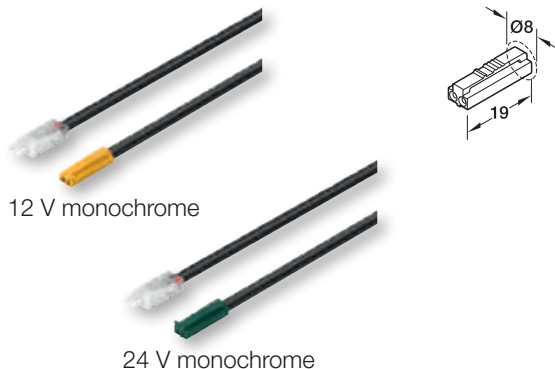
24 V monochrome

> 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

Ø10

21.5

> 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

Ø10

33.5

> 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

Leads

For LED strip light monochrome, 8 mm

Häfele Loox5 lead for LED strip light monochrome, 8 mm

12 V monochrome

24 V monochrome

Ø8
19
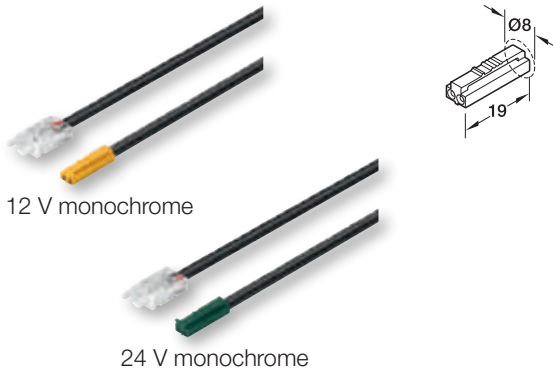
> Current carrying capacity: Max. 5 A
> Width: Clip 10 mm
> Drill hole Ø: Plug 8 mm
> Supplied with: 1 lead plug/clip

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

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

Ø12
21.5

> 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

Ø12
33.5

> 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

ILLUMINATING · EXTENDING · SWITCHING · NETWORKING · DISTRIBUTING · SUPPLYING

Leads

For LED silicone strip light monochrome, 8 mm

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

Ø8

19

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

Ø18

31
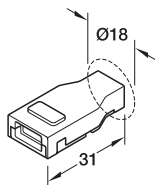
> Current carrying capacity: Max. 5 A
> Width: Clip 15 mm
> Drill hole Ø: Clamp 18 mm
> Supplied with: 1 lead clip/clip

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 89 can be used to make IP20 connections for the monochrome 8 mm silicon strip.

Leads

For LED strip light multi-white, 8 mm

Häfele Loox5 lead for LED strip light multi-white, 8 mm
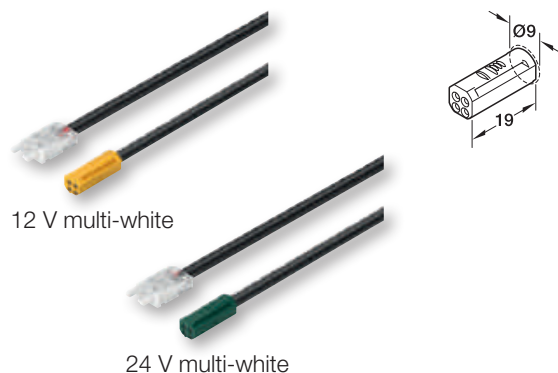
Ø9
19

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

Ø12
21.5

> 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
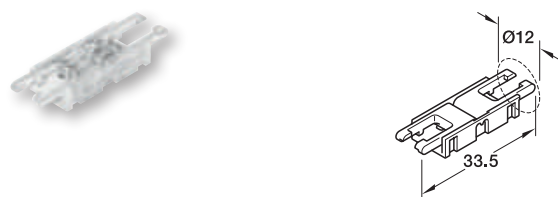
Ø12
33.5

> 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

Leads

For LED strip light RGB, 10 mm

Häfele Loox5 lead for LED strip light RGB, 10 mm

Ø9
19

12 V RGB

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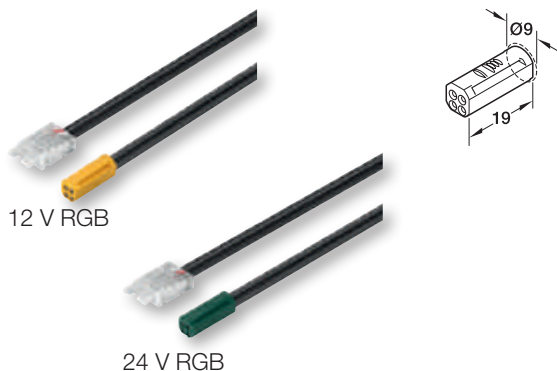
> Current carrying capacity: Max. 3.5 A
> Width: Clip 12 mm
> Drill hole Ø: Plug 9 mm
> Supplied with: 1 lead plug/clip

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

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

Ø14
21.5

> 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
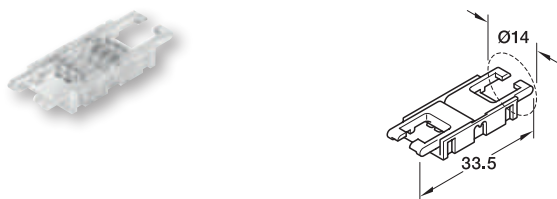
Ø14
33.5

> 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

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HÄFELE

Adapter

Loox5 driver > Loox device

Adapter for devices with Loox plug for connecting to Loox5 driver
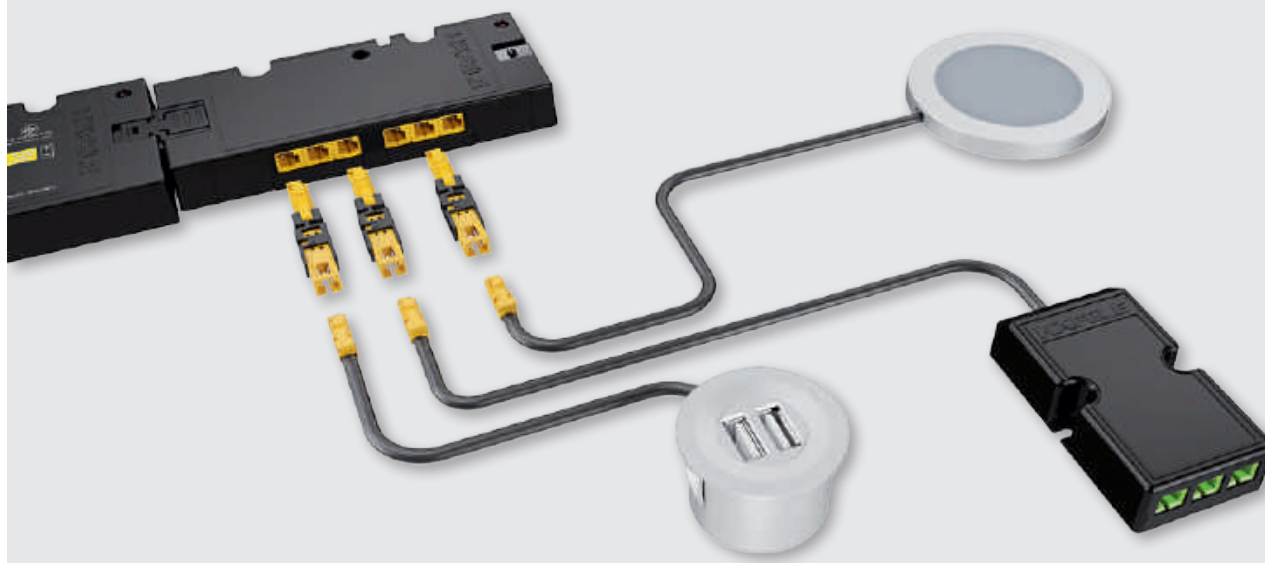
12 V: Loox socket/Loox5 plug
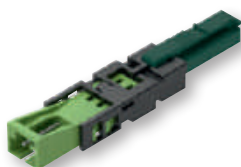
24 V: Loox socket/Loox5 plug

> 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!

Adapter

Loox5 driver > Loox device

Adapter for devices with Loox5 plug for connecting to Loox driver
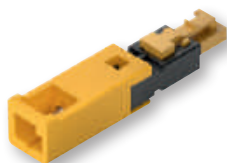
12 V: Loox5 socket/Loox plug
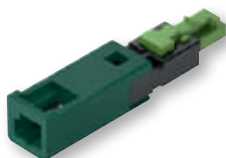
24 V: Loox5 socket/Loox plug

> 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**

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Cable routing

Häfele Loox cable channel

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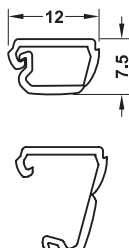
> Dim. (L x W x H):   2500 x 12 x 7.5 mm
> Application: Concealing visible cables in furniture and cabinets
> Supplied with: 1 cable channel with adhesive tape

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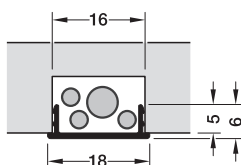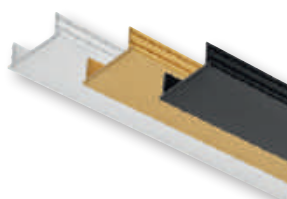
> Material: Plastic
> Length: 2,500 mm
> Application: For concealing visible cables in furniture and cabinets, for recess mounting
> Supplied with: 1 profile

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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Mirror

Multi dimensional mirror

Introduction

See your bathroom in a new light.
The multi-dimensional mirror comes fully assembled and unites the functions of make-up light, room lighting, mood lighting, mirror defogger and sound system in an elegant design.
Integrated touch keys make this unit easy to clean; brilliant light thanks to colour rendering index <90.

Mirror:
> Can be mounted vertically or horizontally

Room and make-up lighting:
> Warm white 2700 K, daylight white 4000 K or colour changing light, operated via touch keys

Background lighting (mood lighting):
> Warm white 2700 K can be operated in combination with room lighting

Demister:
> Warms the mirror to 10-25ºC above the room temperature, preventing the mirror from fogging up, stand by function after 45 min, can be operated via touch keys

Sound operation:
> Sound transducer uses mirror surface for sound development, can be operated with smartphone or tablet via Bluetooth®

Hotel app (Android):
> For configuration of basic settings (max. volume and bass, mirror name, password)

Cool white (4,000 K)

Warm white (2,700 K)

Front light with memory function in cool white...

...and warm white
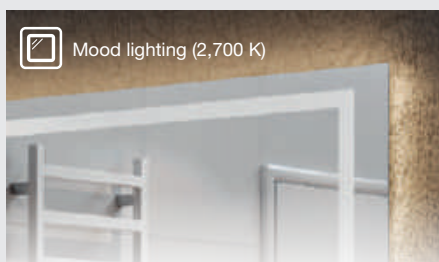
Mood lighting (2,700 K)

Demister

Indirect lighting option offers mood lighting.
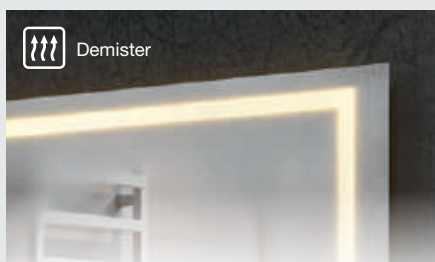
Demister with standby function after 45 min.

Mirror

Multi dimensional mirror

ILLUMINATING

EXTENDING

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SUPPLYING

Multi dimensional mirror
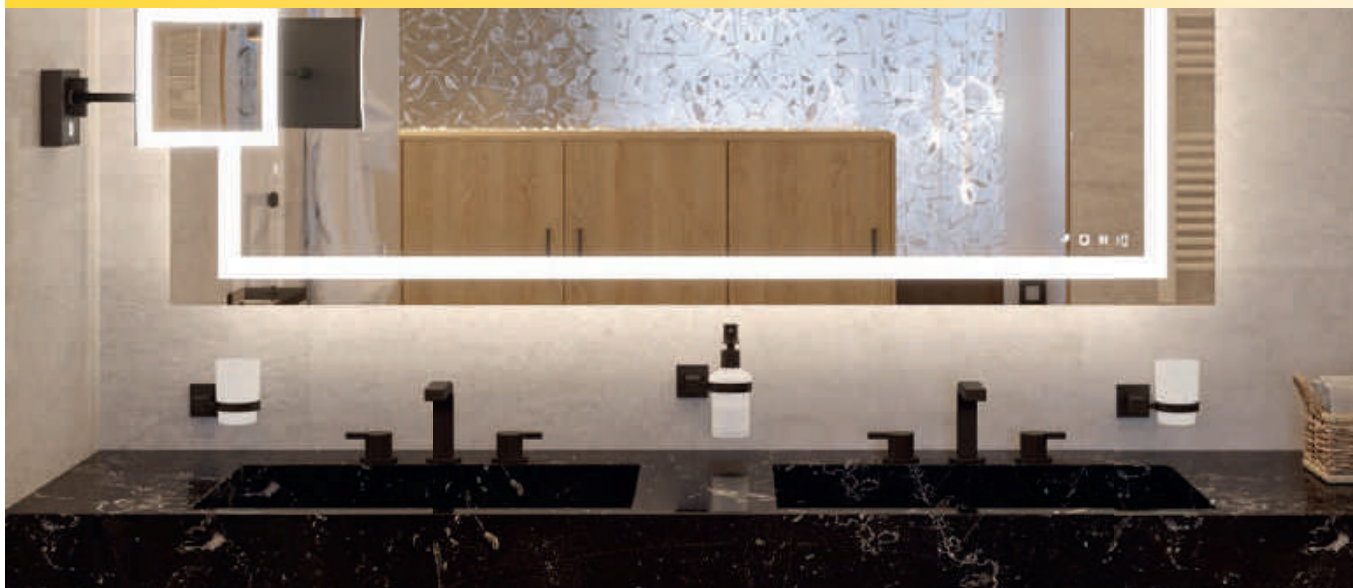
> Nominal voltage mirror: 12 V
> Mains connection/mirror
  input voltage: 100-240 V, 50-60 Hz
> Degree of protection: IP 44
> Mains connection: Fixed wiring
> Installation: For screw fixing
> Factory password: 0000
> Standby power
  consumption: 1.5 W
> Luminous flux front light: 900 x 600 mm, warm white
  1080 lm, cool white 1230 lm
  900 x 900 mm, warm white
  1300 lm, cool white 1470 lm
  900 x 1200 mm, warm white
  1560 lm, cool white 1764 lm

Version (mm)	Cat. No.
900 x 600 x 54	983.19.011
900 x 900 x 54	983.19.021
1200 x 900 x 54	983.19.031

! This mirror contains integrated LED lights. A++ (LED), A+ (LED),
A (LED). The lights in the mirror cannot be replaced.
Energy efficiency class of the LED lights: A
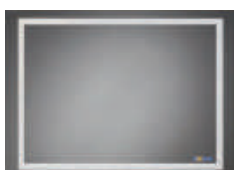
① 900 x 600
② 900 x 900
③ 900 x 1200

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Supplying

Häfele Loox5 drivers 12 V

Constant voltage 12 V	> Page 100
Country-specific main leads	> Page 100

100

Häfele Loox5 drivers 24 V

Constant voltage 24 V	> Page 101
Country-specific main leads	> Page 101

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Häfele Loox converters

Converter 24 V to 12 V	> Page 104
Converter 350 mA to 12 V	> Page 104
Converter 12 V to 24 V	> Page 104

104

Supplying

HÄFELE

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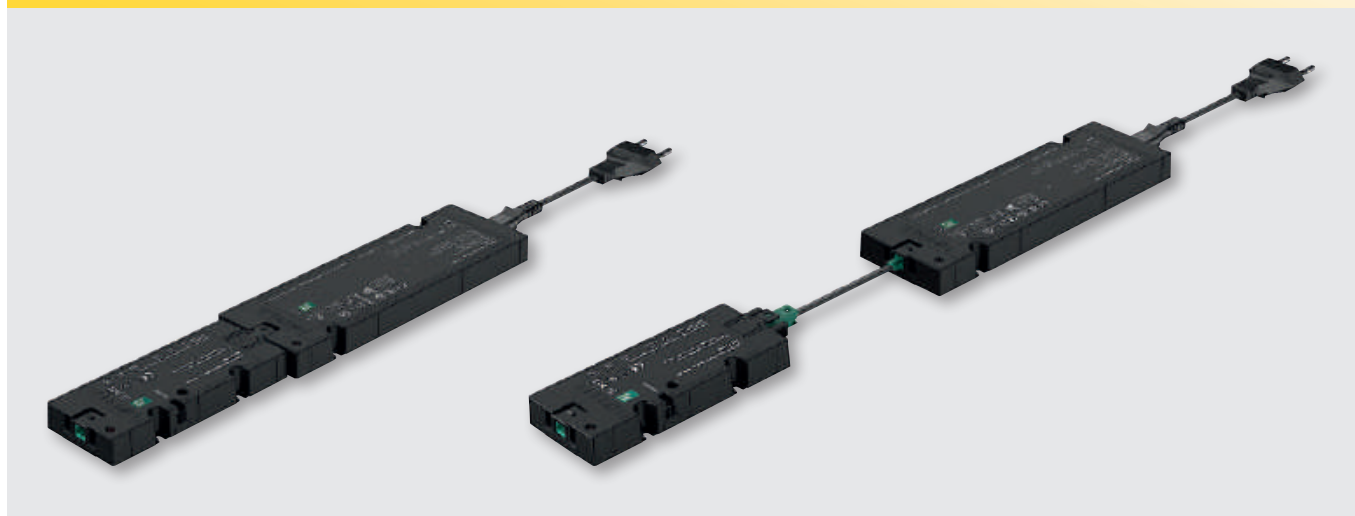
Central and compact
Driver with 6-way distributor via box to box plug-in connection for compact dimensions.

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

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Drivers

12 V

ILLUMINATING

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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 12V	Output power	Output current	Standby power consumption	Dim. (L x W x H)	Cat. No.
	W	A	W	mm	
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**

TÜV c UL us VI □ SELV IP20

Drivers

24 V

ILLUMINATING

EXTENDING

SWITCHING

NETWORKING

DISTRIBUTING

SUPPLYING

HÄFELE

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 24V	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**

TÜV c UL us VI SELV IP20 M M

ILLUMINATING

EXTENDING

SWITCHING

NETWORKING

DISTRIBUTING

SUPPLYING

Drivers

24 V

Häfele Loox5 driver constant voltage 24 V

Driver 240 W, 200–240 V~
833.95.012

> 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.
200–240 V~: typical input voltage in UK, AU, EU, KR and large areas of Asia and Africa					
4	200–240 V~, 50–60 Hz	240 (2 x 120)	2 x 5	2x socket	**833.95.012**

⚠ 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**

TÜV eᵁᴸus Ⓥ ☐ SELV IP20 ▽/▽ ⌂

Converters

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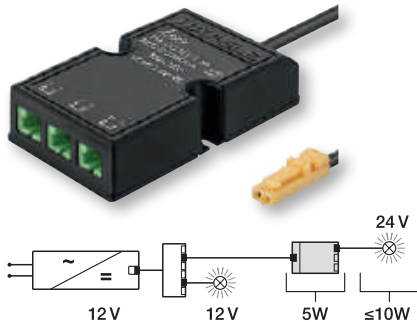
> Application:	Connecting 24 V lights to the 12 V system
> Wattage:	Input 15 W, output 10 W
> Primary side:	DC 12 V
> Secondary side:	DC 24 V
> Number of output ports:	3 connections for 24 V lights
> Supplied with:	1 converter with 200 mm lead

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

24 V   12 V   12 V   5W   ≤10W

12 V | 5 | 12 V Loox5 12 V driver see page 100
Please order 6-piece adapter set 833.95.753 separately.

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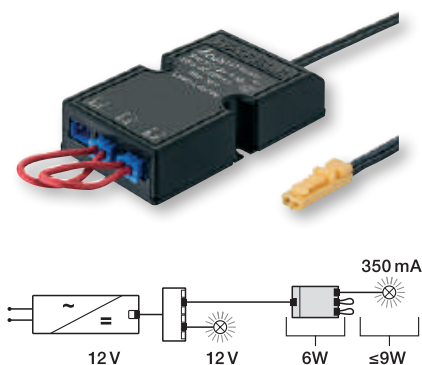
> Application:	Connecting 350 mA lights to the 12 V system
> Wattage:	Input 15 W, output 9 W
> Primary side:	DC 12 V
> Secondary side:	DC 350 mA (min. 1 W, max. 9 W)
> Number of output ports:	3 connections for 350 mA lights
> Supplied with:	1 converter with 200 mm lead

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

350 mA   12 V   12 V   6W   ≤9W

12 V | 5 | 12 V Loox5 12 V driver see page 100
Please order 6-piece adapter set 833.95.753 separately.

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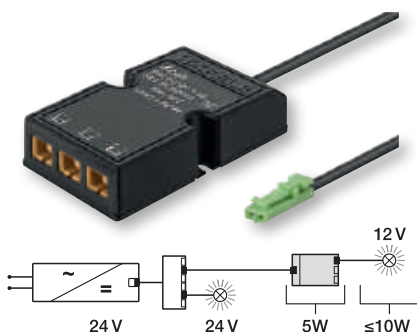
> Application:	Connecting 12 V lights to the 24 V system
> Wattage:	Input 15 W, output 10 W
> Primary side:	DC 24 V
> Secondary side:	DC 12 V
> Number of output ports:	3 connections for 12 V lights
> Supplied with:	1 converter with 200 mm lead

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

12 V   24 V   24 V   5W   ≤10W

24 V | 5 | 24 V Loox5 24 V driver see page 101
Please order 6-piece adapter set 833.77.838 separately.

! Maximum possible connected rating of 10 W per converter.

VI | TÜV | c UL us | PSE | ... | EAC | KC | R36733 | SELV IP20 | M / M

ILLUMINATING   EXTENDING   SWITCHING   NETWORKING   DISTRIBUTING   SUPPLYING

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

Powered sliding door hardware

Energy chain for Slido Classic 70 VF A – for 2, 3, 4 doors, right door front running
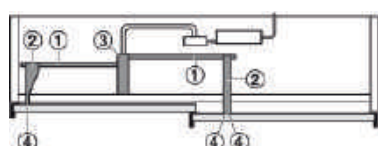
① Energy chain
② Connecting arm for running component
③ Connecting arm for track
④ Connection facility via pre-assembled lead

> Material: Steel and plastic
> Installation: For screw fixing behind running track and onto doors, drilling pattern remain unchanged

Application	Supplied with	Door width mm	Cat. No.
For 2 doors	2 energy chains 3 connecting arms with pre assembled leads	650-800	**402.35.311**
		801-1100	**402.35.312**
		1101-1600	**402.35.313**
		1601-2010	**402.35.314**
For 3 doors	3 energy chains 6 connecting arms with pre assembled leads	650-800	**402.35.315**
		801-1040	**402.35.316**
		1041-1100	**402.35.317**
		1101-1360	**402.35.318**
For 4 doors	4 energy chains 6 connecting arms with pre assembled leads	700-800	**402.35.319**
		801-1100	**402.35.320**

Slido Classic 50 VF P – allows syncronised opening
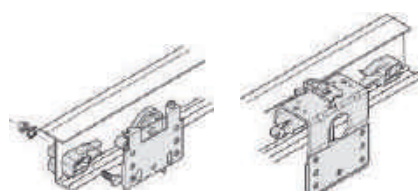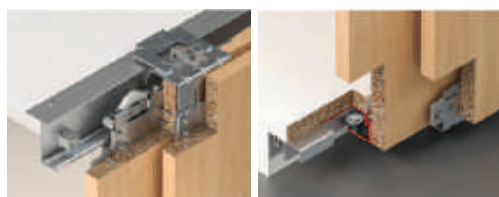
Running gear, rear door

Running gear, front door

⚠ For full details please contact your local Häfele representative.

> Material: Running gears and guides: Steel, double running and guide track: Aluminium
> Installation: Running gear and guide clip for screw fixing to door, guide for clip fixing, top running track for screw fixing to cabinet, bottom guide track for screw fixing to cabinet from outside, from inside optional

Application	Version	Supplied with	Cat. No.
For 2 doors	With clip-in door stopper	4 running guides 4 guides 2 stabilising blocks 2 clip-in door stoppers	**400.51.532**
For 3 doors	With clip-in door stopper	6 running gears 6 guides 2 stabilising blocks 3 clip-in door stoppers	**400.51.533**
For 4 doors	With soft and self clos- ing mechanism on one side, 50 kg	8 running gears 8 guides 2 stabilising blocks 2 end stops 1 syncro unit 3 soft and self closing mechanisms with follower	**400.51.564**

Slido F-Line E-Drive – for 2, 3, 4 doors
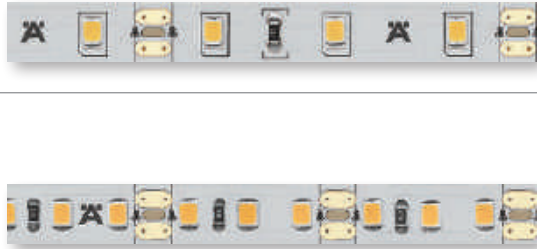
⚠ > The centre door can only be opened in one direction when using sets for 3 doors.
> Please order running guide tracks seperately.

> Material: Steel and plastic
> Installation: For screw fixing behind running track and onto doors, drilling pattern remain unchanged

Application	Supplied with	Cab width mm	Cat. No.
For 2 doors	1 e-drive 2 connecting arms	1600-2400	**400.51.211**
		2400-4000	**400.51.212**
For 3 doors	1 e-drive 3 connecting arms	2500-3100	**400.51.213**
		3100-4000	**400.51.214**
For 4 doors	1 e-drive 3 connecting arms	2500-3100	**400.51.215**
		3100-4000	**400.51.216**

ILLUMINATING
EXTENDING
SWITCHING
NETWORKING
DISTRIBUTING
SUPPLYING

LED strip lights

Technical data, monochrome 5 mm / 8 mm

	Volt-age V	Model Häfele Loox5	Quan-tity LEDs/m	Colour temper-ature K	Illuminance lx Distance 250 mm	500 mm	750 mm	1000 mm	Watt-age 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		Available length			Max. strip length (visual) m	Max. strip length wattage-dependent m on the Loox5 driver			
			R_a	R_g	5 m	15 m	50 m		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

LED strip lights monochrome constant current 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
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

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
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 lm/m	Luminous efficacy lm/W	Section length mm	Colour rendering index CRI		Available length			Max. strip length (visual) m	Max. strip length wattage-dependent m on the Loox5 driver			
			R$_a$	R$_g$	5 m	15 m	50 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

LED strip lights multi-white, 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
	5 12V	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 24V	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

	Voltage	Model	Quantity LEDs/m	Colour temp	250	500	750	1000	W/m
	5 12V	LED 2080	120	RGB	–	–	–	–	9.6
	5 24V	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.
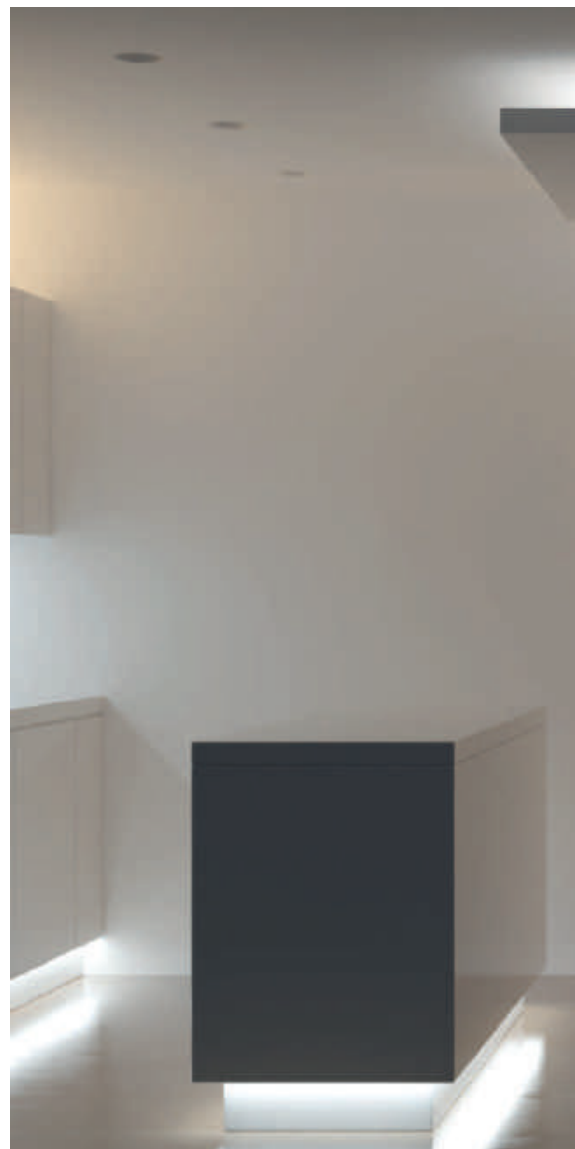
Cooking.

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.
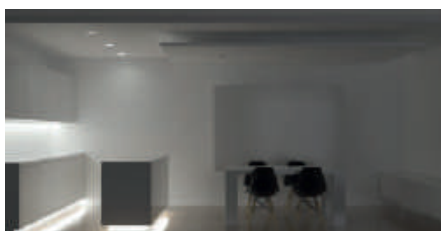
Eating.

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.
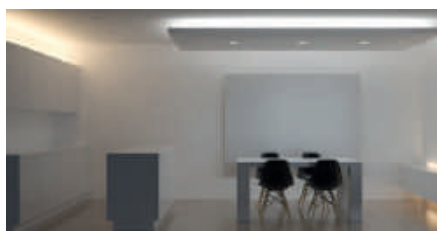
Relaxation.

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.
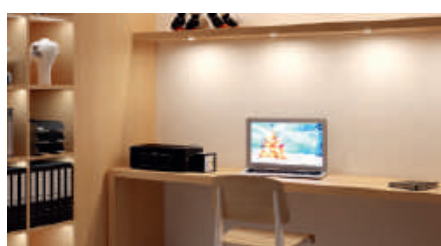
Ambient light.

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.
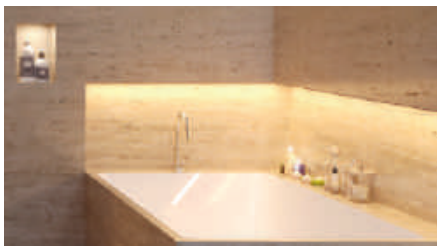
Staging.
Spotlights make the illuminated objects on shelves and showcases the focus. And wall wash light makes wall structures visible.

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.
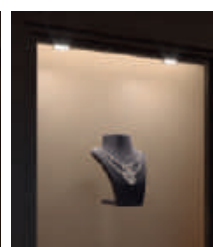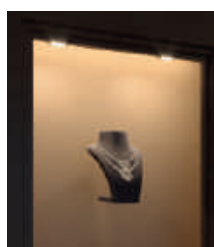
Light with effect.

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.
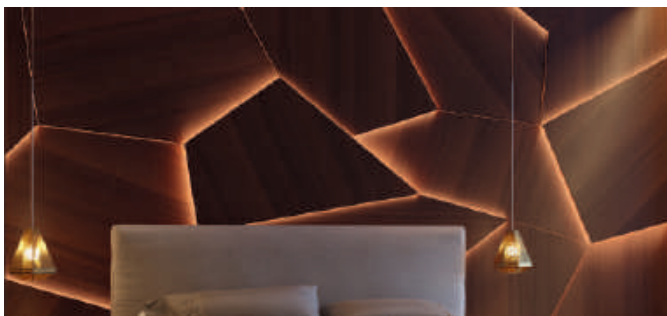
Dark surfaces.

Dark materials absorb light, so it is necessary to use stronger light. However, too much light destroys the ambiance and comfort.
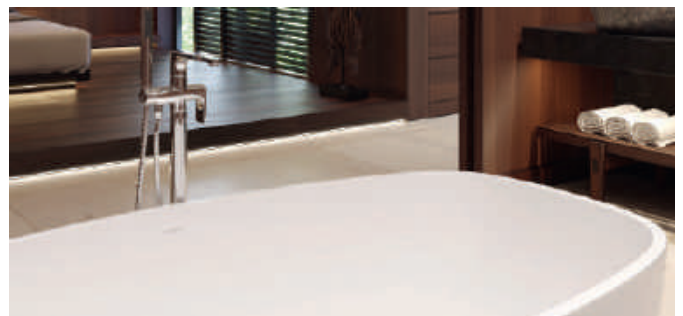
Bright surfaces.

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

Colour temperature	3000 K	4000 K		Refraction angle 117°	
Illuminance value	867 lx	884 lx	☼	250 mm	Distance
	216 lx	221 lx	☼	500 mm	
	96 lx	98 lx	☼	750 mm	
	54 lx	55 lx	☼	1000 mm	Illuminance symbol
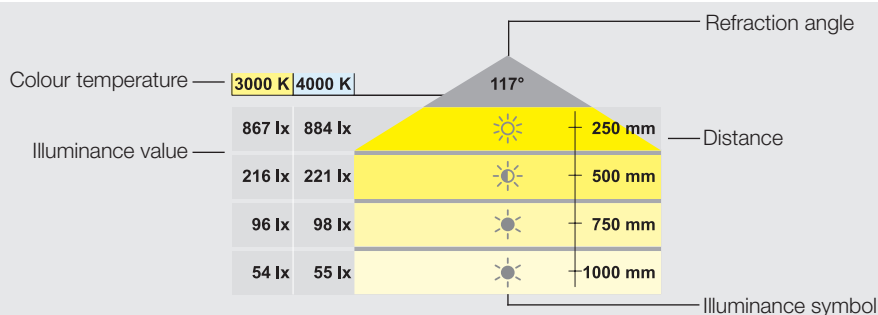
☼	>500 lx
☼	150–500 lx
☼	<150 lx

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

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.
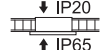
Test symbol

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

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.

IP44 after installation

IP65 after installation

Safety symbols
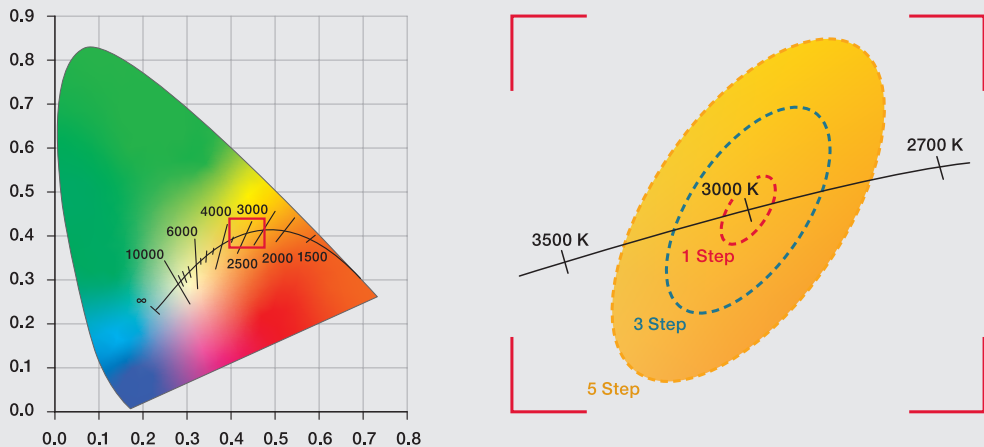
Installation permitted on or in furniture, whose ignition properties are unknown.

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

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 (m²) 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.

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

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.

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%.

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.

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**.

Article index

HÄFELE

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