









Introduction

Dear Customer,

Häfele has pioneered the way interior fittings are sold across the globe for many years now. Being a German company our foremost concern has always been to offer our customers products that are at the cutting edge of functionality and design; and backed by the highest standards in Customer Service. In our markets, we are increasingly being recognized as a onestop interior specialist brand that can enable functionality for any interior design through a holistic solution offering, be it door hardware, furniture or kitchen fittings, sliding systems, built-in appliances, bathroom solutions, furniture lighting and interior surfaces.

Keeping this proposition in mind, we are happy to introduce to you our one-of-its-kind, comprehensive lighting catalogue that will enable you to effectively plan the lighting needs for your home. Through this catalogue, we share with you our knowledge and expertise in understanding the functionality of different types of lighting options and how they work effectively to enhance your interior spaces. This catalogue takes you through the entire range of Häfele's 5th Generation Furniture Lighting Solutions — Loox5 that encapsulates the essence of four generations of lighting systems that have redefined home ambience and ergonomics over the last 10 years.

Loox5 takes lighting to the next level. Inspired by the demands of time, Loox5 makes lights easy, logical and linear. These lights have not just been designed but in fact have been engineered keeping the utmost comfort for the consumers in mind. The range presents itself as a unique combination of elegant design and state-of-the-art technology making it the perfect choice for any home furniture application; be it Task Lighting for Kitchen Cabinets and Plinths, Decorative Lighting for Living Room Showcases, Mood Lighting for Bedroom Applications or pure Functional Lighting in Wardrobes.

Häfele's Loox Lighting System meets the increasing demands for lighting in furniture and rooms just as well as the growing need for networking, digitalisation and maximum simplicity, and flexibility. It answers the questions that are driving our time. It's easier, better and above all, much smarter than its predecessors. It pays tribute to the demands of the furniture industry with its high reliability, even with around-the-clock operation. The Loox5

lighting system features a significant increase in performance, indispensable for linear lighting that is in great demand in the LED sector.

The planning of light in furniture and furnishings puts a multitude of demands on architects, electricians, contractors and finishers, and even developers and operators. The practical, aesthetic and emotional aspects of lighting ensure that the proposed concepts contribute to unique and flexible room design; in residential, commercial, office and display settings as well as in hotels and serviced apartments. We at Häfele put this important element of light planning at the centre of a comprehensive collection of ideas; it comes as no surprise, therefore, that we are the pioneers of 'furniture lighting' with the widest range of lighting solutions for furniture.

So, go through the many solutions presented in our Loox5 catalogue and visit our Design Showrooms for an informed dialogue with me or the Häfele team. We look forward to partnering with you and assisting every need you may have to make your dream homes a reality.

Enjoy.

Jurgen Wolf.

Managing Director Hafele South Asia.

Hafele Reassuring Expertise



"For over 9 decades, we've been helping people make more of their homes.

Established in Germany, and now operating worldwide, we specialise in the fittings, hardware and systems that improve the way your home, works. So when you choose our products as part of your new or reformed home, you know you're getting the benefit of extensive knowledge and decades of experience.

And we're still a family business, owned and managed by family members who really care about the products and service we provide. You can rely on our commitment to the highest standards of quality and reliability, founded on a long tradition of German engineering where attention to detail is second nature.

All our home improvement ideas are built to last – day in, day out – we want you to get the very best from every corner of your home, for many years to come."

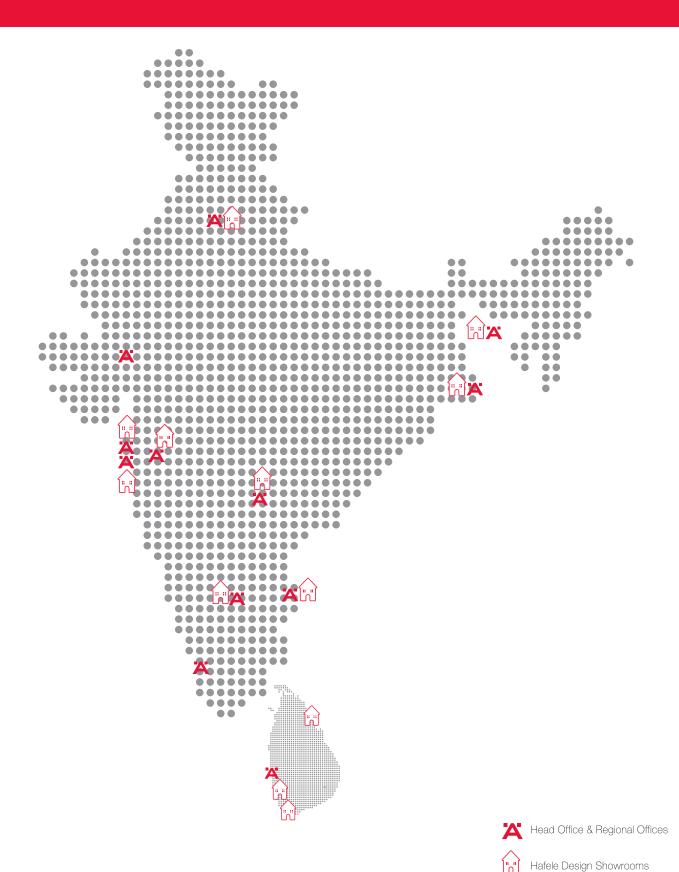
Hafele Worldwide



With its origin in 1923 in a small town named 'Nagold' from the Swabian region of Germany that nurses a passion for hardware technology, it is no surprise that Häfele has lived up to its roots through a successful presence in the architectural and furniture hardware industry for over 9 decades now. Today, Hafele's worldwide penetration includes 38 subsidiaries across Europe, America, Asia, Australia and New Zealand. With these subsidiaries and numerous other sales organisations, Häfele operates in over 150 countries. The Häfele headquarters, 4 manufacturing units and 10 sales offices are located within Germany; while 1 manufacturing unit is located at Budapest, Hungary. The company also owns one of the largest and most sophisticated warehouses in its home country. The Häfele worldwide workforce is empowered by a base of over 7800 employees.

The group services over 150,000 customers across the globe through its extensive range of hardware products and a comprehensive logistics system. In addition to this, Häfele also provides consultative services to its customers, educating and advising them about buying the correct hardware as per their requirements. With this level of market penetration and ability to handle worldwide demand, it comes as no surprise that the company is an authority in the segment of home interior solutions; what is pleasantly surprising, though, is that in spite of its size, Häfele still remains a family owned and run business with a unique, friendly and value-centric work culture which is strongly followed among all its subsidiaries.

Hafele India





Häfele India is a wholly-owned subsidiary of the Häfele Global network and has been operating in India since 2003 under the leadership of Mr. Jürgen Wolf (Managing Director). The ability of the company to understand the diverse Indian market has made it an authority in the field of architectural hardware, furniture and kitchen fittings and accessories. The company also has a strong presence in synergized product categories namely Appliances, Lights, Sanitary and Surfaces catering to the focused demand from these industries.

The subsidiary has a strong nation-wide presence with offices in Mumbai, Pune, Ahmedabad, Bangalore, Chennai, Hyderabad, Delhi, Kolkata and Cochin. It has full-scale operations in Sri Lanka and Bangladesh with Regional offices and Design Showrooms in both the countries; and has also spread its operations to other regions of South Asia including Nepal, Bhutan and Maldives.

Häfele's design showrooms are hubs of international home interior trends and cutting edge designs presented in a world-class environment, where customers can see home solutions in their inherent applications. These showrooms function as a one-stop-shop for all home interior and improvement needs - from providing in-depth technical advice to kitchen and wardrobe designing services through a team of experts stationed at the showroom.

Häfele India services its customers with a base of over 850 employees, a well-networked Franchise base of over 130 shops along with over 1000 dealers situated across South Asia. The subsidiary has a sophisticated Logistics centre in Mumbai along with distribution centres in Delhi, Bangalore, Kolkata and Colombo respectively.

Contents

Introduction

Illuminating

Extending

Switching

Page

9

Page

26

Page

77

Page

80

Loox 5 Introduction

Loox System

Light Planning

Linear light

LED strip lights
Aluminium profiles
Poly-carbonate profiles
Drawer lights
Glass edge light

Charging stations Sound systems Pop up sockets Sensor switches Mechanical switches Dimmers Multi switch box Multi driver box

Point light

Recess/surface mounted downlights Recess mounted downlights Surface mounted downlights Bed side lamps

Networking

Page

88

Page

90

Distributing

Supplying

Page

91

Additional information

Page

100

Häfele Connect

Häfele Connect BLE Box BLE Adaptor

Leads

Distributor
Extension leads
Modular leads
Switch leads
Leads and connect

Leads and connectors for LED strip lights Mains leads Cable routing

Connections and control concept

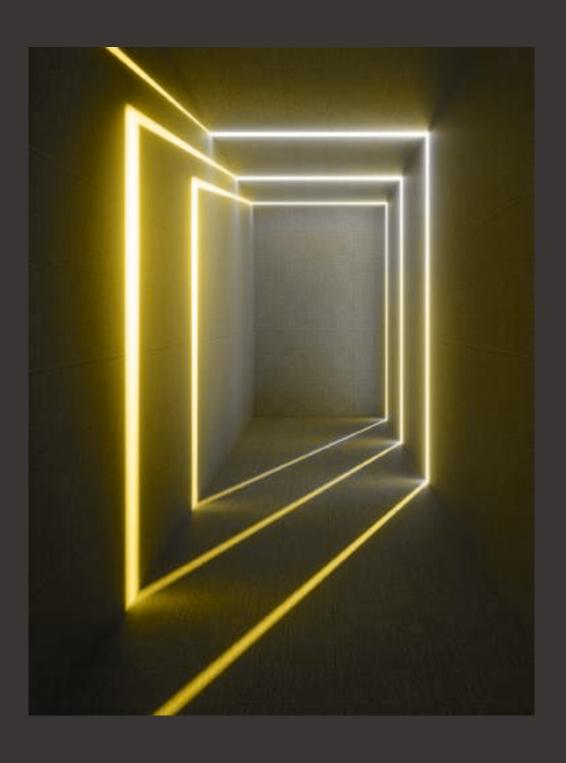
Drivers Leads and Distributors Converters

Technical data LED strip lights

Inspirations for designing with light Light effects and lighting technology Test symbols and symbols Technical terms Technical questions Documentation on the Internet Address information







LOX5



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

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

The essence of four generations.

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

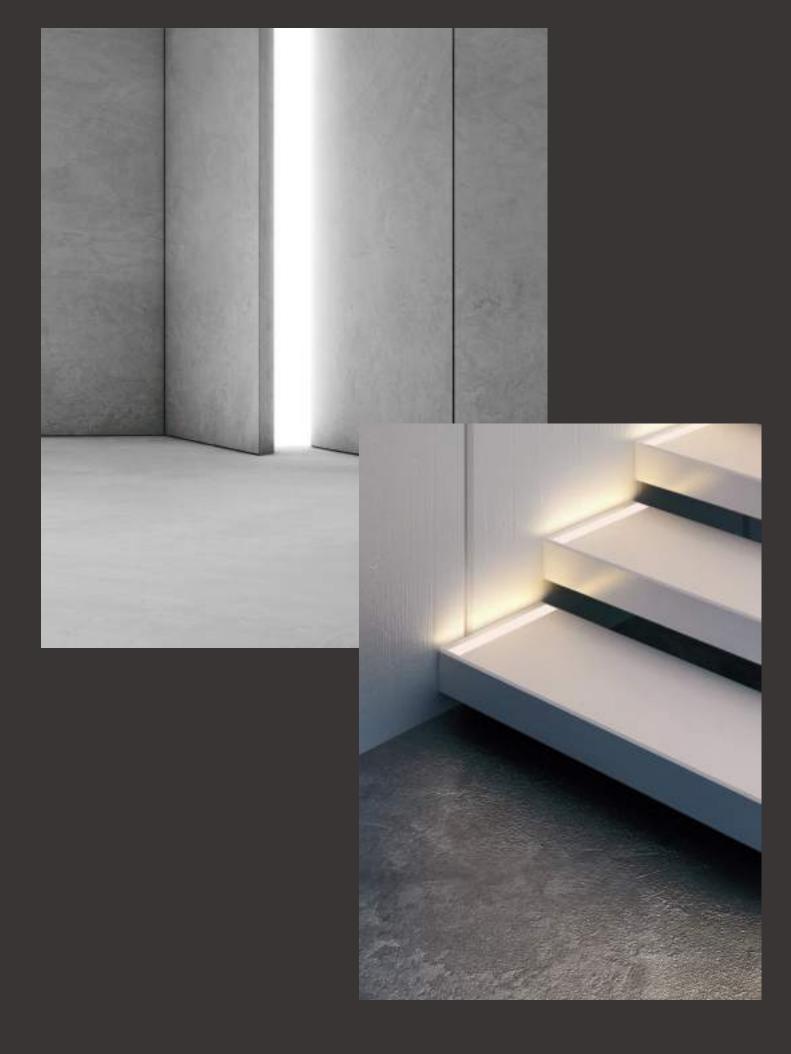
How can it be made easier?
How can it be made better?
How can it be made more intelligent?



The essence of our experience therefore has a new face.

Welcome to Loox5.

Easy. Logical. Linear.



Light is easy.

Few criteria. Many solutions.

Light colour
Light intensity
Light source

Monochrome | Multi-white | RGB Task light | Ambient light | Accent light

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



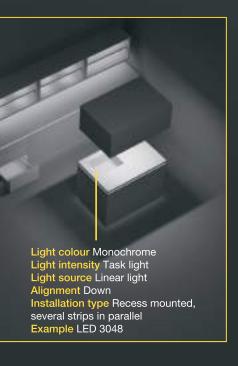


Ambience full of atmosphere for rest areas.



Light in the kitchen. Functionality for every action.







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 Loox 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 Loox systems. 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 Mobile App is the central element for controlling monochrome lights, multi-white lights, or RGB lights individually or jointly.



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). The distributor can be easily replaced at a later time. Therefore, make sure the drivers are accessible in the furniture.





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 32 |
| LED 3048 | 24 V | | 8 mm | 14.4 W/m | 1320 | > Page 30 |
| LED 2068 | 12 V | | 8 mm | 9.6 W/m | 955 | > Page 30 |
| LED 2061 | 12 V | | 5 mm | 9.6 W/m | 860 | > Page 28 |
| LED 2074 | 12 V | | 5 mm | 9.6 W/m | 955 | > Page 34 |
| | | | | | | |



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

Illuminance max. at a



Accent light <150 lx at a distance of 500 mm

LED 2019 12 V Glass edge light 0.2 W > Page 66



Multi-white lights

LED 2062

LED 2071

12 V

12 V

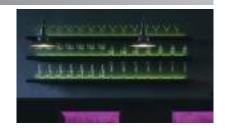
 LED 2073
 12 V
 8 mm
 4.8 W/m
 445
 > Page 36

 LED 2076
 12 V
 8 mm
 9.6 W/m
 875
 > Page 36



RGB lights

LED 2016 12 V 12 mm 7.1 W/m - > Page 38



HAFELE

| Alumini | um profiles | for rece | ess | mc | un | ting |
|---------|-------------|----------|-----|----|----|------|
| Model | Internal di | mension | | | | |
| | _ | | | | | |

| Model | Internal din | nension | |
|-------|--------------|---|-----------|
| 1104 | 8 mm | For strip lights up to a width of 5 mm | > Page 40 |
| 1103 | 11 mm | For strip lights up to a width of 8 mm | > Page 40 |
| 1105 | 11 mm | Asymmetrical light distribution | > Page 41 |
| | 16 mm | For strip lights up to a width of 12 mm | > Page 42 |
| 1107 | 8 mm | Asymmetric light distribution, | > Page 43 |
| | | for strip lights up to a width of 5 mm | |
| 1106 | 11 mm | Asymmetrical light distribution | > Page 43 |



Poly-carbonate profiles for recess mounting

| 1102 | 5 mm | For strip lights up to a width of 8 mm | > Page 44 |
|------|------|--|-----------|
| 1101 | 8 mm | For 8 mm strip lights only | > Page 44 |



Aluminium profiles for surface mounting

| 2102 | 11 mm | For strip lights up to a width of 8 mm | > Page 45 |
|------|-------|---|-----------|
| 2104 | 11 mm | With concealed fixing, | > Page 46 |
| | | asymmetric light distribution | |
| | 16 mm | For strip lights up to a width of 12 mm | > Page 47 |
| | 16 mm | With attached diffuser housing | > Page 47 |
| | 14 mm | Corner mounting | > Page 48 |
| | 14 mm | Drawer profile | > Page 49 |
| | 50 mm | Two-way aluminium profile | > Page 51 |



Aluminium wardrobe rail

Asymmetrical light distribution 15 mm > Page 50



Poly-carbonate glass edge profile

For strip lights up to a width of 12 mm > Page 50 11 mm



Diffusers

| For profiles for recess mounting 1103-1107 | > Page 52 |
|---|-----------|
| For profiles for surface mounting 2104 | |
| For Loox profiles with 16 mm internal dimension | > Page 52 |



Point light



Task light

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



LED 2026 12 V

Recess mounted/ surface mounted

Drill hole Ø 58 mm

3.0 W > Page 56





-M- Ambient light

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

| 0 | LED 2047 | 12 V | Recess mounted/ surface mounted | Drill hole Ø 55 mm | 3.0 W | > Page 54 |
|---|----------|------|------------------------------------|-----------------------|-------|-----------|
| | LED 2020 | 12 V | Recess mounted/ surface mounted | Drill hole Ø 55 mm | 3.2 W | > Page 60 |
| 8 | LED 2022 | 12 V | Recess mounted/ surface mounted | Drill hole Ø 26 mm | 1.5 W | > Page 62 |
| | LED 2039 | 12 V | Recess mounted | Drill hole Ø 58 mm | 2.5 W | > Page 64 |
| | LED 2027 | 12 V | Recess mounted | Drill hole Ø 65 mm | 2.6 W | > Page 67 |
| | LED 2036 | 12 V | Recess mounted | - | 3.6 W | > Page 70 |





Accent light

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

| (3) | LED 2028 | 12 V | Recess mounted | Drill hole Ø 54 mm | 0.3 W | > Page 65 |
|-----|----------|--------|------------------------------------|-----------------------|-------|-----------|
| | LED 2019 | 12 V | Glass Edge Light | - | 0.2 W | > Page 66 |
| | LED 4004 | 350 mA | Recess mounted/ surface mounted | | 1 W | > Page 71 |
| | LED 4005 | 350 mA | Recess mounted/ surface mounted | | 1 W | > Page 72 |



Flexible surface mounted lights





HÄFELE

O

Multi-white lights



LED 2048 12 V LED 3039 24 V

Recess mounted/ Drill hole surface mounted Ø 26 mm

3.0 W > Page 58



| - CO | F-88 | ıhts | - |
|------|------|------|---|
| | | | ~ |
| | | | |

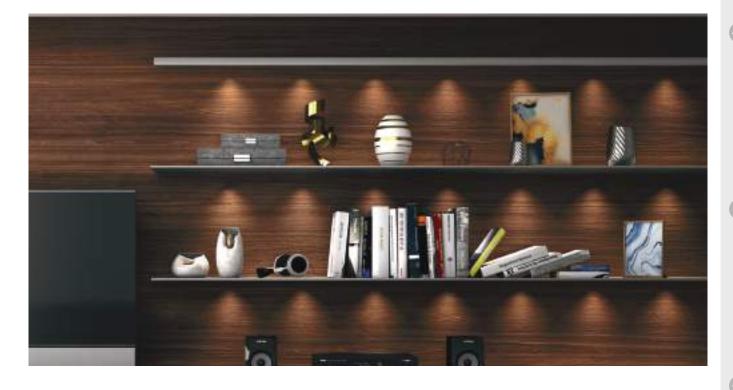
| Deco shelf light | LED Decorative Box Shelf Light | | Surface mounted | | | > Page 73 |
|------------------|-----------------------------------|------|-----------------|---|-------|-----------|
| Deco shelf light | LED Corner Shelf Light | 12 V | Surface mounted | - | 4.5 W | > Page 74 |
| Box shelf light | Box Shelf Light | 12 V | Surface mounted | - | 6/9 W | > Page 75 |



Other Lights

| LED drawer light | - | 12 V | Surface mounted | - | 6 W | > Page 76 |
|-----------------------|---|------|-----------------|---|---------|-----------|
| Two way profile light | - | 12 V | Surface mounted | - | 11/17 W | > Page 76 |

















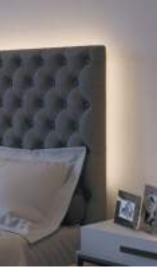


Linear light

For universal use in furniture.

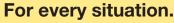






Good reasons.

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



- > Radiant task light for work spaces
- > Discreet ambient light for wellness zones
- > Poly-carbonate profiles for vertical illumination in storage spaces
- > Aluminium profiles in trendy colours for top-of-the-line design demands



LED strip lights





Monochrome, 5 mm

Häfele Loox5 LED 2061; High Performance



LED 2061

Illuminance value in Ix applies to 1 m strip length:

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

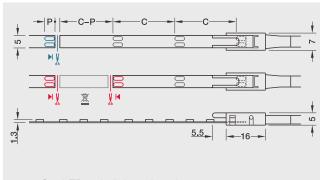
LED 2061

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

Self-adhesive > Mounting: > Supplied with: 1 roll

Order reference: Please order lead separately.



Cut LED strip light to length (one contact side remains on the remainder piece; reusable)

Connect LED strip lights (two contact sides required)

C = section length

P = length of contact surface

| Volt- age | Quan- tity | Colour tempera- ture | Watt- age | | Lumi- nous effi- cacy | | x CRI | Weight. energy consumpt. per m in kWh/ | Section length C | Length of contact surface P | Max. strip length (visual) | Available length |
|--------------|---------------|----------------------------|--------------|------|-----------------------------|----------------|----------------|--|---------------------|-----------------------------|-------------------------------------|------------------|
| V | LEDs/m | N. | W/m | lm/m | lm/W | R _a | R ₉ | 1000 h | mm | mm | m | 5 m |
| | Häfele L | oox5 LED 2 | 2061 | | | | | | | | | |
| | | 2700 | 9.6 | 870 | 91 | >90 | >50 | 10.56 | 25 | 3 | 3.0 | 833.74.328 |
| 5 12 V | 100 | 3000 | 9.6 | 830 | 97 | >90 | >50 | 10.56 | 25 | 3 | 3.0 | 833.74.329 |
| | 120 | 4000 | 9.6 | 955 | 99 | >90 | >50 | 10.56 | 25 | 3 | 3.0 | 833.74.330 |
| | | 5000 | 9.6 | 990 | 103 | >90 | >50 | 10.56 | 25 | 3 | 3.0 | 833.74.331 |

Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.

HAFELE

Häfele Loox5 LED 2061; High Performance



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

| Voltage | Length mm | Cat. No. |
|---------|-----------|------------|
| 5 12 V | 2000 | 833.72.742 |



> 3.5 A clip connector for 5 mm LED strip light

| | Cat. No. |
|----------------|------------|
| Clip connector | 833.89.207 |



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

| Length mm | Cat. No. |
|-----------|------------|
| 500 | 833.89.195 |



> 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



Häfele Loox5 LED 2062/2068 / 3048; High Performance



LED 2062



LED 2068



LED 3048

1 m strip length:

Illuminance value in lx applies to

| 2700 K | 3000 K | 4000 K | 5000 K | 120° | |
|-----------------|---------|---------|---------|----------------|----------|
| 1050 l x | 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 l x | 150 lx | 155 lx | 160 lx | | -1000 mm |
| . == | | | | | |

LED 2062

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

LED 2068

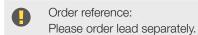
| 2700 K | 3000 K | 4000 K | 5000 K | 120° | |
|-----------------|---------|---------|---------|------|----------|
| 2870 lx | 3000 lx | 3100 lx | 3100 lx | ※ | 250 mm |
| 1210 I x | 1270 lx | 1310 lx | 1320 lx | 淡 | - 500 mm |
| 665 lx | 695 lx | 715 lx | 715 lx | 淡 | - 750 mm |
| 415 I x | 430 lx |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

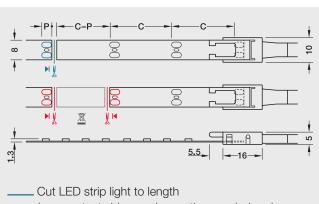
LED 3048

Equipped with high-quality Samsung LEDs

| > Dimmable: | Yes |
|----------------------------|---------------|
| / Diminable. | 163 |
| > 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 |

> Supplied with: 1 ro





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



Häfele Loox5 LED 2062/2068/3048; High Performance

| Volt- age | Quan- tity | Colour temper- ature | Watt- age | Lumi- nous flux | Lumi- nous effi- cacy | Colour r ing inde | | Weight. energy con- sumpt. per m in kWh/ | 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 | 1000 h | mm | mm | m | 5 m |
| 5 12 V | Häfele L | oox5 LEI | 2062 | | | | | | | | | |
| | | 2700 | 4.8 | 440 | 92 | >90 | >50 | 5.28 | 50 | 4 | 6.0 | 833.74.336 |
| | 60 | 3000 | 4.8 | 465 | 97 | >90 | >50 | 5.28 | 50 | 4 | 6.0 | 833.74.337 |
| | 00 | 4000 | 4.8 | 490 | 102 | >90 | >50 | 5.28 | 50 | 4 | 6.0 | 833.74.338 |
| | | 5000 | 4.8 | 495 | 103 | >90 | >50 | 5.28 | 50 | 4 | 6.0 | 833.74.339 |
| | Häfele L | oox5 LEI | 2068 | | | | | | | | | |
| | | 2700 | 9.6 | 920 | 96 | >90 | >50 | 10.56 | 25 | 4 | 4.0 | 833.74.362 |
| | 120 | 3000 | 9.6 | 970 | 101 | >90 | >50 | 10.56 | 25 | 4 | 4.0 | 833.74.363 |
| | 120 | 4000 | 9.6 | 1000 | 104 | >90 | >50 | 10.56 | 25 | 4 | 4.0 | 833.74.364 |
| | | 5000 | 9.6 | 1040 | 108 | >90 | >50 | 10.56 | 25 | 4 | 4.0 | 833.74.365 |
| | Häfele L | oox5 LEI | 3048 | | | | | | | | | |
| | | 2700 | 14.4 | 1270 | 88 | >90 | >50 | 15.84 | 50 | 4 | 6.2 | 833.76.352 |
| 5 24 V | 120 | 3000 | 14.4 | 1305 | 91 | >90 | >50 | 15.84 | 50 | 4 | 6.2 | 833.76.353 |
| | 120 | 4000 | 14.4 | 1340 | 93 | >90 | >50 | 15.84 | 50 | 4 | 6.2 | 833.76.354 |
| | | 5000 | 14.4 | 1430 | 99 | >90 | >50 | 15.84 | 50 | 4 | 6.2 | 833.76.355 |



Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.



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

| | | · - |
|---------|-----------|------------|
| Voltage | Length mm | Cat. No. |
| 5 12 V | 2000 | 833.72.716 |
| 5 24 V | 2000 | 833.75.705 |



> 5 A clip connector for 8 mm LED strip light

| Clip connector 83 | 333.89.206 |
|-------------------|------------|



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

| Length mm | Cat. No. |
|-----------|------------|
| 500 | 833.89.192 |



> 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, 8 mm

Häfele Loox5 LED 3052; High Performance



LED 3052

Illuminance value in Ix applies to 1 m strip length:

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

LED 3052

Constant current technology

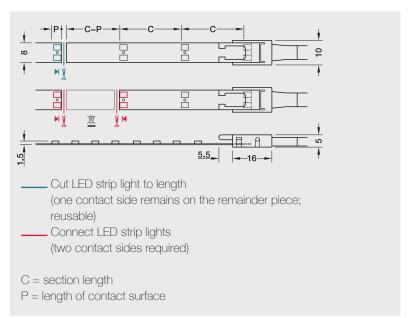
- > Achieves uniform brightness over the entire strip light length
- > Increased life time, higher visual strip length, higher luminous efficacy

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: Α+ IP20 > Degree of protection: > Mounting: Self-adhesive

> Supplied with: 1 roll

Order reference: Please order lead separately.



| Volt- age | Quantity | Colour tempera- ture | Wattage | nous flux | | ing index CRI | | ing index CRI | | Weight. energy consumpt. per m in | Section length C | Length of contact surface P | Max. strip length (visual) | Available length |
|--------------|-----------|----------------------------|---------|-----------|------|---------------|----------------|---------------|----|---|---------------------|--------------------------------------|----------------------------------|---------------------|
| V | LEDs/m | K | W/m | lm/m | lm/W | Ra | R ₉ | kWh/1000 h | mm | mm | m | 5 m | | |
| | Häfele Lo | ox5 LED 3 | 8052 | | | | | | | | | | | |
| | | 2700 | 19.2 | 1850 | 96 | >90 | >50 | 21.12 | 50 | 3 | 4.6 | 833.76.378 | | |
| 5 24 V | 140 | 3000 | 19.2 | 2015 | 105 | >90 | >50 | 21.12 | 50 | 3 | 4.6 | 833.76.379 | | |
| | 140 | 4000 | 19.2 | 2050 | 107 | >90 | >50 | 21.12 | 50 | 3 | 4.6 | 833.76.380 | | |
| | | 5000 | 19.2 | 2100 | 109 | >90 | >50 | 21.12 | 50 | 3 | 4.6 | 833.76.381 | | |





Häfele Loox5 LED 3052; High Performance



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

| Voltage | Length mm | Cat. No. |
|---------|-----------|------------|
| 5 24 V | 2000 | 833.75.705 |



> 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. |
|-----------|------------|
| 500 | 833.89.192 |



> 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, 8 mm

Häfele Loox5 LED 2071 / 2074; Standard



Equipped with high-quality Samsung LEDs

> Dimmable: Yes Plastic > Material: > Finish/colour: White > Width: 8 mm > Height: 1.3 mm > Life time L80/B10: >30,000 h > Energy efficiency class: Α+ > Degree of protection: IP20 > Mounting: Self-adhesive

> Supplied with: 1 roll

Order reference:

Please order lead separately.

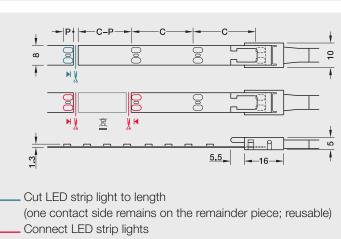
Illuminance value in Ix applies to 1 m strip length:

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

LED 2071

| 2700 K | 3000 K | 4000 K | 5000 K | 120° | |
|----------------|----------------|---------|---------|---------------------|----------|
| 2145 lx | 2250 lx | 2300 lx | 2300 lx | 淡 | 250 mm |
| 900 I x | 940 l x | 950 lx | 955 lx | 涂 | - 500 mm |
| 480 I x | 505 lx | 510 lx | 515 lx | 涂 | - 750 mm |
| 300 lx | 310 lx | 320 lx | 320 lx | ->\ \(\frac{1}{2}\) | -1000 mm |

LED 2074



(two contact sides required)

C = section length

P = length of contact surface



Häfele Loox5 LED 2071 / 2074; Standard

| Volt- age | Quantity | Colour tempera- ture | Wattage | Luminous flux | Luminous efficacy | Colour r dering ir CRI | | Weight. energy consumpt. per m in kWh/ | 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 | 1000 h | mm | mm | m | 5 m |
| 5 12 V | Häfele Loc | x5 LED 20 | 71 | | | | | | | | | |
| | | 2700 | 4.8 | 440 | 92 | 90 | >50 | 5.28 | 50 | 4 | 6.0 | 833.74.300 |
| | 00 | 3000 | 4.8 | 465 | 97 | 90 | >50 | 5.28 | 50 | 4 | 6.0 | 833.74.301 |
| | 60 | 4000 | 4.8 | 490 | 102 | 90 | >50 | 5.28 | 50 | 4 | 6.0 | 833.74.302 |
| | | 5000 | 4.8 | 495 | 103 | 90 | >50 | 5.28 | 50 | 4 | 6.0 | 833.74.303 |
| | Häfele Loc | x5 LED 20 | 74 | | | | | | | | | |
| | | 2700 | 9.6 | 920 | 96 | 90 | >50 | 10.56 | 25 | 4 | 3.5 | 833.74.308 |
| | 100 | 3000 | 9.6 | 970 | 101 | 90 | >50 | 10.56 | 25 | 4 | 3.5 | 833.74.309 |
| | 120 | 4000 | 9.6 | 1000 | 104 | 90 | >50 | 10.56 | 25 | 4 | 3.5 | 833.74.310 |
| | | 5000 | 9.6 | 1040 | 108 | 90 | >50 | 10.56 | 25 | 4 | 3.5 | 833.74.311 |



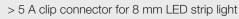
> 5 A/18 AWG lead for LED strip light 8 mm

Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.

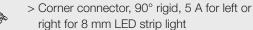
| Vo | Itage | Length mm | Cat. No. |
|----|-------|-----------|------------|
| Ę | 12 V | 2000 | 833.72.716 |

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

| Length mm | Cat. No. |
|-----------|------------|
| 500 | 833.89.192 |



| | Cat. No. |
|----------------|------------|
| Clip connector | 833.89.206 |



| | Cat No |
|--------------------------------|--------|
| right for 8 mm LED strip light | |

| | Cat. No. |
|------------------------|------------|
| Corner connector rigid | 833,89,187 |





LED 2076

LED strip lights

Multi-white, 8 mm





Häfele Loox5 LED 2073 / 2076; Standard





LED 2076

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: >30,000 h > Energy efficiency class: Α+ IP20 > Degree of protection: > Mounting: Self-adhesive

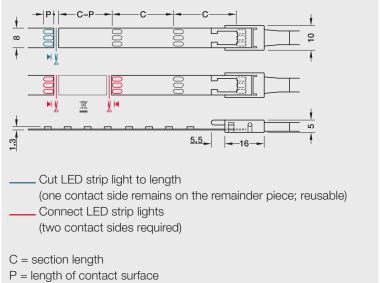
> Supplied with:

Illuminance value in Ix 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 l x | 150 lx | - - | 1000 mm |
| LED 207 | 73 | | |

| 2700 K | 5000 K | 120° | |
|---------|---------|------|----------|
| 2040 lx | 2110 lx | × - | - 250 mm |
| 850 lx | 875 lx | | - 500 mm |
| 460 lx | 470 lx | -> | - 750 mm |
| 280 lx | 290 lx | | -1000 mm |

Order reference: Please order lead separately.









Häfele Loox5 LED 2073 / 2076; Standard

| Volt- age | Quantity | Colour tem- perature | Watt- age | Lumi- nous flux | Lumi- nous efficacy | Colour r index Cl | endering RI | Weight. energy consumpt. per m in | Section length C | _ | Max. strip length (visual) | Available length |
|--------------|------------|-------------------------|--------------|--------------------|---------------------------|----------------------|----------------|--|---------------------|-----|-------------------------------------|---------------------|
| V | LEDs/m | K | W/m | lm/m | lm/W | Ra | R ₉ | kWh/ 1000 h | mm | mm | m | 5 m |
| 5 12 V | Häfele Loo | x5 LED 2073 | | | | | | | | | | |
| | 2 x 60 | 2700 5000 | 4.8 | 425 465 | 88 96 | 90 | >50 | 5.28 | 50 | 4 | 4.5 | 833.74.316 |
| | Häfele Loo | x5 LED 2076 | | | | | | | | | | |
| | 2 x 120 | 2700 5000 | 9.6 | 875 940 | 91 97 | 90 | >50 | 10.56 | 25 | 3.5 | 3 | 833.74.318 |



Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.



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

| Length mm | Cat. No. |
|-----------|------------|
| 500 | 833.72.717 |



| | Cat. No. |
|------------------------|------------|
| Corner connector rigid | 833.89.188 |



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

| | Cat. No. |
|----------------|------------|
| Clip connector | 833.89.208 |



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

| Length mm | Cat. No. |
|-----------|------------|
| 500 | 833.89.198 |



Use Häfele BLE Box to operate the multi-white strip lights. See page 88

LED strip lights

RGB, 12 mm





Häfele Loox LED 2016



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

> Dimmable:

Yes, via RGB colour mixer with remote

control

> Material:

Plastic

> Finish/colour: > Length:

LED board, white 5000 mm

> Width: > Height:

12 mm 2.4 mm

> Life time L70/B50:

30,000 h

> Energy efficiency class: A+

> Degree of protection:

> RGB color mixers:

Max. 10 with 1-10 remote controls within

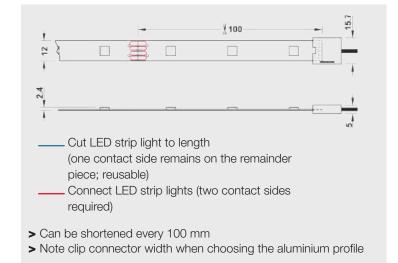
a radius of 15 m Self-adhesive

> Installation:

> Supplied with: 5 m roll and 2 m lead 2.5 A/22 AWG

Order reference:

Please order lead separately.



| Volt- age | Quantity | Colour tem- perature | Watt- age | Lumi- nous flux | Lumi- nous efficacy | Colour index C | • | Weight. energy consumpt. per m in | Section length C | _ | Max. strip length (visual) | Available length |
|--------------|-------------|-------------------------|--------------|--------------------|---------------------------|-------------------|----------------|--|---------------------|----|-------------------------------------|------------------|
| V | LEDs/m | K | W/m | lm/m | lm/W | Ra | R ₉ | kWh/ 1000 h | mm | mm | m | 5 m |
| | Häfele I oo | v5 LED 2016 | | | | | | | | | | |

RGB 7.1 1050 29 100 3.4 833.73.450 30



Häfele Loox LED 2016



> Lead, 2.5 A/22 AWG, with clip for LED RGB strip light

| Volt- age | Length mm | Cat. No. |
|--------------|-----------|------------|
| 12 V | 2000 mm | 833.74.764 |
| | 4000 mm | 833.74.745 |



> Corner connector, rigid, 2.5 A, for LED RGB strip light

| | Cat. No. |
|------------------|------------|
| Corner connector | 833.74.760 |



> Interconnecting lead, 2.5 A/22 AWG, with clip for LED RGB strip light

| | Cat. No. |
|---------|------------|
| 50 mm | 833.74.766 |
| 500 mm | 833.74.767 |
| 1000 mm | 833.74.779 |
| 2000 mm | 833.74.768 |



> Clip connector, 2.5 A for LED RGB strip light

| | Cat. No. |
|----------------|------------|
| Clip connector | 833.74.761 |

- Maximum visual strip length applies for an imperceptible drop in luminous flux of max. 30%.
- Use Hafele BLE Box to operate Multi white LED Lights. See page 88

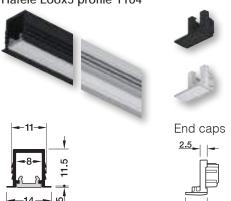


Aluminium

Häfele Loox5 profile 1104/1103



Häfele Loox5 profile 1104



> Material:

> Finish/colour:

Profile: Aluminium, Diffuser: Plastic Profile: Anodized, Diffuser: White opal, transmittance 70–80 %

3000 mm

> Length:

> Diffuser width:

Profile 1104: 8 mm, Profile 1103: 11 mm

> Supplied with: 1 aluminium profile 1 diffuser white opal

Duefile 4404 Duefile 444

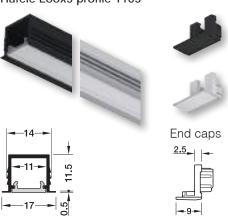
| Colour | Profile 1104 | Profile 1103 |
|-----------------|--------------|--------------|
| Black | 833.95.725 | 833.95.723 |
| Silver coloured | 833.95.724 | 833.95.722 |



Note

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

Häfele Loox5 profile 1103



End caps for Häfele Loox5 profile 1104, 1103

Material: PlasticVersion: With cable outletSupplied with: 5 pairs of end caps

| 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 diffuser in black opal separately.

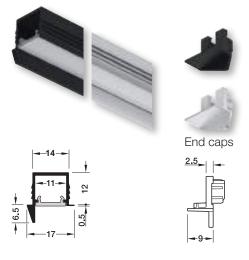


Aluminium

Häfele Loox5 profile 1105, asymmetric light distribution



Häfele Loox5 profile 1105



| > Material: | Profile: Aluminium, Diffuser: Plastic |
|-------------------|--|
| > Finish/colour: | Profile: Anodized, Diffuser: White opal, |
| | transmittance 70-80 % |
| > Length: | 3000 mm |
| > Diffuser width: | 11 mm |

| > Dillacor Wiati. | 1 1 111111 |
|-------------------|-----------------------|
| > 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 glarefree 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.





Aluminium

Häfele Loox profile for recess mounting



> Material: Aluminium

> Finish/colour: Silver coloured anodized

> Length x width: 2500 x 18 mm > Height: 8.5 mm

> Supplied with: 1 profile, 1 diffuser

| | 2 |
|-------------------------------------|------------|
| Colour | Cat. No. |
| Silver coloured with milky diffuser | 833.72.844 |



LED points are always visible when this profile is used

End cap with cable outlet for 833.72.844

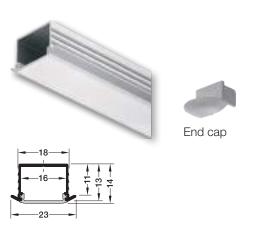
> Material: Plastic > Supplied with: 2 pieces

| Colour | Cat. No. |
|-----------------|------------|
| Silver coloured | 833.72.855 |



Diffusers see page 52

Häfele Loox profile for recess mounting



> Material: Aluminium

> Finish/colour: Silver coloured anodized

> Length x width: 2500 x 18 mm > Height: 13 mm

> Supplied with: 1 profile, 1 diffuser

| Colour | Cat. No. |
|-------------------------------------|------------|
| Silver coloured with milky diffuser | 833.72.846 |

End cap with cable outlet for 833.72.846

> Material: Plastic, silver coloured

> Supplied with: 2 pieces

| Colour | Cat. No. |
|-----------------|------------|
| Silver coloured | 833.72.854 |

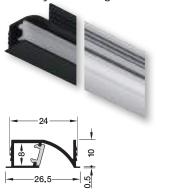


Aluminium

Häfele Loox5 profile 1107 / 1106



Häfele Loox5 profile 1107, with asymmetric light distribution



Profile: Aluminium, Diffuser: Plastic > Material: > Finish/colour: Profile: Anodized, Diffuser: White opal, transmittance 70-80 %

3000 mm

> Length:

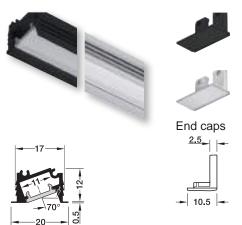
Profile 1107: 8 mm, Profile 1106: 11 mm > Diffuser width:

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

Häfele Loox5 profile 1106, with asymmetric light distribution



End caps for Häfele Loox5 profile 1106

> Material: Plastic

> Version: With cable outlet > Mounting: For screw fixing

> Supplied with: 5 pairs of end caps with screws

| Colour | Article No. |
|-----------------|-------------|
| Black | 833.95.773 |
| Silver coloured | 833.95.772 |



Diffusers

The diffuser creates a uniform light. If required, please order alternative diffuser in black opal separately.

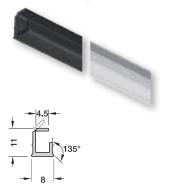


Poly-carbonate

Häfele Loox5 profile 1102/1101



Häfele Loox5 profile 1102



Häfele Loox5 profile 1101



11 135°

| > | Material: | Poly-carbonate |
|---|----------------|--------------------|
| > | Finish/colour: | White & Black Opal |
| > | Length: | 3000 mm |

> Supplied with: 1 Poly-carbonate profile

| Colour | Transmittance | Profile 1102 | Profile 1101 |
|--------|---------------|--------------|--------------|
| Black | ~20 % | 833.95.741 | 833.72.899 |
| White | 70-80 % | 833.95.740 | 833.72.898 |



Note

Profiles 1102 and 1101 are usable for LED strip lights up to max. 9.6 W/m.

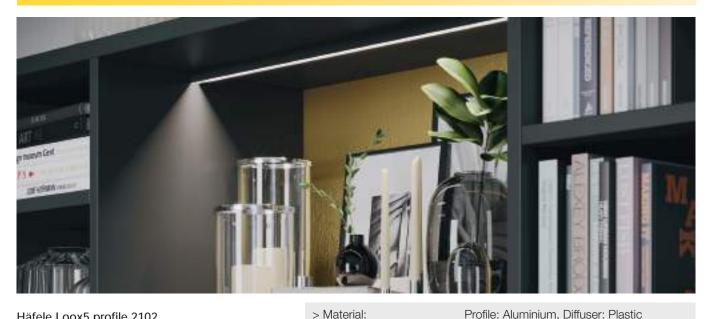
Profile 1102 is usable for LED strip lights up to max. 5 mm width. Profile 1101 is usable only for LED strip lights with a width of precisely 8 mm.

The diffuser creates a uniform light.

The LED points in the white version are invisible from 120 LEDs/m.

Aluminium

Häfele Loox5 profile 2102



Häfele Loox5 profile 2102









End caps



Flush recess mounted diffuser

> Finish/colour:

Profile: Aluminium, Diffuser: Plastic 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 2102 |
|----------------------------------|--------------|
| Black | 833.95.735 |
| Brushed stainless steel coloured | 833.95.763 |



Diffusers

The diffuser creates a uniform light. The LED points are invisible from 120

If required, please order alternative diffuser in black opal separately.



Diffusers see page 52

End caps for Häfele Loox5 profile 2102

> Material: Plastic

With drill mark for cable outlet > Version:

5 pairs of end caps > Supplied with:

| • • | | |
|-------------------|----------------|--------------|
| Colour | | End cap 2102 |
| Black | | 833.95.778 |
| Brushed stainless | steel coloured | 833.95.779 |

Adhesive tape for Häfele Loox5 profile 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

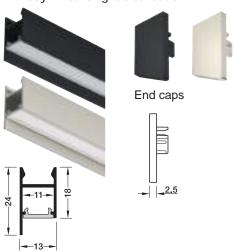
| | Article No. |
|---------------|-------------|
| Adhesive tape | 833.89.266 |

Aluminium

Häfele Loox5 profile 2104, with concealed fixing



Häfele Loox5 profile 2104, with asymmetric light distribution



The diffuser creates a uniform light.

The LED points are invisible from 120

If required, please order alternative diffuser

> Material:

> Finish/colour:

transmittance 70–80 %
Length: 3000 mm

11 mm

Diffuser width:Supplied with:

1 aluminium profile1 diffuser white opal

Profile: Aluminium, Diffuser: Plastic

Profile: Anodized, Diffuser: White opal,

| Colour | Profile 2104 |
|----------------------------------|-----------------|
| Black | 833.95.739 |
| Brushed stainless steel coloured | 833.95.765 |

•

Order reference

Please order (mandatory) mounting bracket separately.



End caps for Häfele Loox5 profile 2104

> Material: Plastic

> Version: With drill mark for cable outlet

> Supplied with: 5 pairs of end caps

| Colour | End cap 2104 |
|----------------------------------|-----------------|
| Black | 833.95.784 |
| Brushed stainless steel coloured | 833.95.785 |
| | |

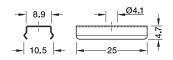


Diffusers see page 52

in black opal separately.

Diffusers





Mounting bracket for concealed fixing

Mounting bracket

> Material: Stainless steel
> Mounting: For screw fixing

> Supplied with: 5 pairs of mounting brackets

| | Article No. |
|------------------|-------------|
| Mounting bracket | 833.95.761 |

Aluminium

Häfele Loox profile for surface mounting







Retaining clip

> Material: Aluminium

> Finish/colour: Silver coloured anodized

> Length x width: 2500 x 18 mm > Height: 9.5 mm

> Supplied with: 1 profile, 1 diffuser

| Colour | Cat. No. |
|-------------------------------------|------------|
| Silver coloured with milky diffuser | 833.72.840 |



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.



End cap for 833.72.840

> Material: Plastic, silver coloured

> Supplied with: 2 pieces

| Colour | Cat. No. |
|-----------------|------------|
| Silver coloured | 833.72.852 |

Retaining clip for 833.72.840

Stainless steel, silver coloured

> Supplied with: 2 pieces

| Version | Cat. No. |
|----------------|------------|
| Retaining clip | 833.74.832 |



Diffusers see page 52

> Material: Aluminium

Silver coloured anodized > Finish/colour:

> Length x width: 2500 x 18 mm

> Height: 14 mm

> Supplied with: 1 profile, 1 diffuser

| Colour | Cat. No. |
|-------------------------------------|------------|
| Silver coloured with milky diffuser | 833.72.841 |







Retaining clip

End cap for 833.72.841

> Material: Plastic > Supplied with: 2 pieces

| Colour | Cat. No. |
|-----------------|------------|
| Silver coloured | 833.72.853 |

Retaining clip for 833.72.841

> Material: Stainless steel, silver coloured

2 pieces > Supplied with:

| Version | Cat. No. |
|----------------|------------|
| Retaining clip | 833.74.832 |





Aluminium

Häfele Loox profile for surface mounting, with attached diffuser housing









End cap

Retaining clip

> Material:

Profile: Aluminium

> Finish/colour:

Diffuser housing: Plastic 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

| Colour | Cat. No. |
|---------------------------------------|------------|
| Silver coloured with diffuser housing | 833.74.813 |



End cap for 833.74.813

> Material: Plastic

> Version: With cable outlet

> Supplied with: 2 pieces

| Colour | Cat. No. |
|-----------------|------------|
| Silver coloured | 833.74.823 |

Retaining clip for 833.74.813

> Material: Stainless steel

> Application: For mounting as downlight

> Supplied with: 2 pieces

VersionCat. No.Retaining clip833.74.832

Häfele Loox corner profile

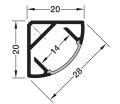




End cap



Holder





> Material: Aluminium

> Finish/colour: Profile: Silver coloured anodized

Diffuser: Milky

> Length x width: 2500 x 28 mm

> Height: 20 mm

> Supplied with: 1 aluminium profile 1 diffuser milky

ColourCat. No.Silver coloured833.74.812



End cap and holder/ mounting plate

> Material: End cap and holder: Plastic, silver

coloured: Mounting plate: Stainless steel

> Supplied with: 2 pieces

| | Cat. No. |
|----------------|------------|
| End cap | 833.74.822 |
| Holder | 833.74.825 |
| Mounting plate | 833.74.826 |

HAFELE

Profiles for surface mounting

Aluminium

Häfele Loox drawer profile









End caps

Retaining clip



Door Sensors

> 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

| Colour | Cat. No. |
|-----------------|------------|
| Silver coloured | 833.74.835 |

| End cap set | | |
|------------------|-------------------------------|------------|
| > Material: | ABS plastic, silver coloure | d |
| > Supplied with: | 5 sets of end caps, fixing | screws |
| | | Cat. No. |
| End cap set | | 833.74.877 |
| | | |
| Retaining clip | | |
| > Material: | Stainless steel, silver colou | ured |
| > Supplied with: | 2 pieces | |
| | | Cat. No. |
| Retaining clip | | 833.74.893 |
| | | |
| Door sensor | | |
| Door sensor | | 0 . 11 |
| Door sensor | | Cat. No. |



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

| Colour | Cat. No. |
|-----------------|------------|
| Silver coloured | 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

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

Rail centre support, wardrobe rail

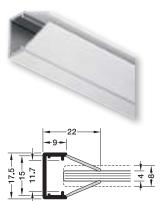
> Material: Zinc alloy, chrome plated

> Mounting: For screw fixing

> Supplied with: 1 piece

Cat. No.Wardrobe rail, rail centre support802.07.200

Häfele Loox glass edge profile



> Material: Poly-carbonate
> 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. |
|------------|
| 833.74.733 |
| |

Effect of the glass edge on the light

- > Glass edge with satin finish = even light line
- > Clear glass edge = point light



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.

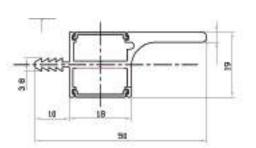




Profiles

Häfele two way aluminium profile





> Material: Aluminium

> Finish/colour: Silver coloured anodized

Diffuser: Milky

> Length x width: 2500 x 50 mm

> Height: 19 mm

| Colour | Cat. No. |
|-----------------|------------|
| Silver coloured | 833.01.720 |

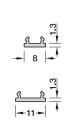


Diffusers

Häfele Loox5 diffusers for profiles for recess mounting 1103 / 1104 / 1106 / 1107 as well as for profiles for surface mounting 2102 & 2104



Dimensions



Material: PlasticLength: 3000 mmSupplied with: 1 diffuser

| Width mm | Transmittance black, ~25 % |
|----------|----------------------------|
| 8 | 833.95.758 |
| 11 | 833.95.759 |



The LED points are invisible from 120 LEDs/m. When using the black diffuser, LED points may be visible.

Replacement diffuser for Loox profiles with 16 mm internal dimension









Diffuser version: Protruding, for push fitting

Material: PlasticLength: 2500 mmSupplied with: 1 diffuser

| Diffuser | Frosted | Milky |
|------------------------------|------------|------------|
| Protruding, for push fitting | 833.74.780 | 833.74.781 |



Diffuser version: Flush, for sliding in

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

| Diffuser | Frosted | Milky |
|----------------------------------|------------|------------|
| Protruding, flush for sliding in | 833.72.858 | 833.72.859 |



- > Simple replacement of existing diffusers in order to switch from frosted to milky
- > Cannot be used for the following aluminium profiles: 833.74.812, 833.74.813 or for aluminium profiles with curved diffusers
- > Can be used only with Loox aluminium profiles



Recess/surface mounted downlights

Monochrome, drill hole Ø: 55 mm

Häfele Loox LED 2047





> Dimmable: Yes > Material:

> Finish: Polished chrome plated

> Energy efficiency class: > Degree of protection:

> 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



Loox 12 V driver see page 92

| 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

| Voltage V | Number of LEDs | Colour tem- perature K | Wattage W | Luminous flux Im | Luminous efficacy Im/W | Colour rendering index CRI | Weighted energy consumption kWh/1000 h | Cat.No |
|--------------|----------------------|------------------------------|--------------|------------------------|------------------------------|----------------------------|--|------------|
| 12 V | Häfele Loox LED 2047 | | | | | | | |
| | 24 | 3000 | 3 | 210 | 70 | 90 | 3.3 | 833.72.300 |
| | | 4000 | 3 | 216 | 72 | 90 | 3.3 | 833.72.301 |
| | | 5000 | 3 | 240 | 80 | 83 | 3.3 | 833.72.302 |







HÄFELE

Häfele Loox LED 2047

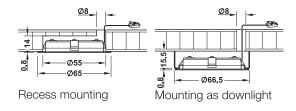


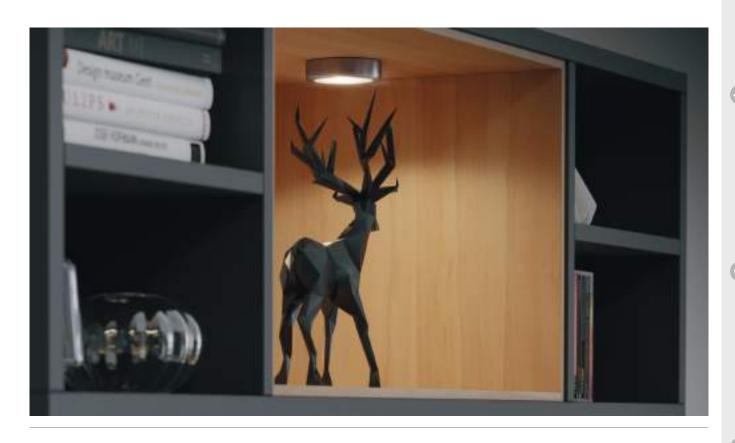




| Downlight | housing |
|------------------|---------|
|------------------|---------|

| Colour | Cat. No. | |
|------------------------|------------|--|
| Polished chrome plated | 833.72.802 | |



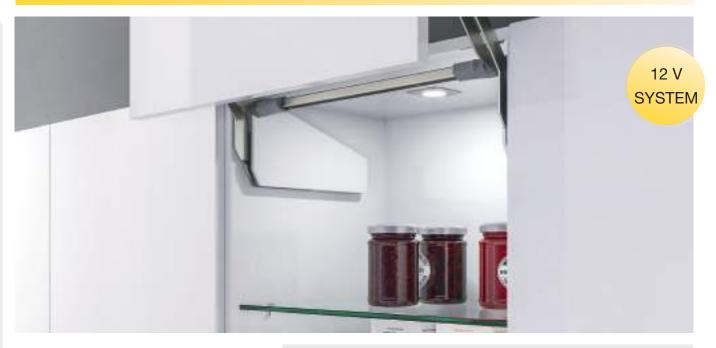


Recess/surface mounted downlight

Modular, drill hole Ø: 58 mm



Häfele Loox LED 2026





> Dimmable: Yes > Material: Aluminium

> Finish: Polished chrome plated

> Energy efficiency class:

> 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

> No. of LED > Drill hole Ø: 58 mm > Supplied with: 1 light module

| 2700 K | 3000 K | 4000 K | 5000 K | 80° |
|---------|---------|---------|---------|----------|
| 1400 lx | 1800 lx | 1850 lx | 1950 lx | 250 mm |
| 400 lx | 500 lx | 520 lx | 550 lx | _ 500 mm |
| 175 lx | 225 lx | 235 lx | 250 lx | 750 mm |
| 100 lx | 125 lx | 135 lx | 140 lx | -1000 mm |

LED 2026

| Not |
|------|
| 1100 |

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.









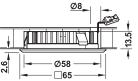
HAFELE

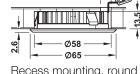
Häfele Loox LED 2026

| Volt- age | Quantity | Colour tem- perature | Wattage | Luminous flux | Luminous efficacy | Colour rendering index CRI R _a R ₉ | | Weighted energy con- sumption | Cat. No. |
|--------------|-------------|-------------------------|---------|------------------|-------------------|---|---|-------------------------------------|------------|
| V | LEDs | K | W | lm | lm/W | | | kWh/1000 h | |
| 12 V | Häfele Loox | LED 2026 | | | | | | | |
| | 1 | 2700 | 3.0 | 185 | 62 | >90 | _ | 3.30 | 833.72.360 |
| | | 3000 | 3.0 | 210 | 70 | >90 | _ | 3.30 | 833.72.361 |
| | | 4000 | 3.0 | 221 | 74 | >90 | - | 3.30 | 833.72.362 |
| | | 5000 | 3.0 | 260 | 87 | >83 | _ | 3.30 | 833.72.137 |



Recess mounted housing



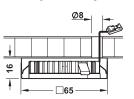


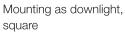
Recess mounting, square

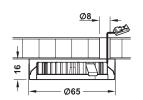
Recess mounting, round



Downlight housing







Mounting as downlight, round



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

| Voltage | Length | Cat. No. |
|---------|---------|------------|
| | 500 mm | 833.72.880 |
| 12 V | 1000 mm | 833.72.881 |
| | 2000 mm | 833.72.882 |

Housing for recess mounting, plastic

| Colour | Round | Square |
|--------------------------|------------|------------|
| Silver coloured | 833.72.126 | 833.72.127 |
| Black | 833.72.168 | 833.72.172 |
| Stainless steel coloured | 833.72.382 | 833.72.385 |



Downlight housing, plastic

| Colour | Round | Square |
|--------------------------|------------|------------|
| Silver coloured | 833.72.124 | 833.72.125 |
| Black | 833.72.160 | 833.72.164 |
| Stainless steel coloured | 833.72.194 | 833.72.197 |

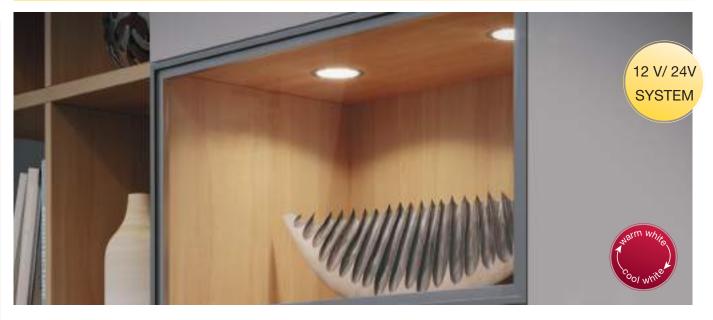
Recess/surface mounted downlights

Multi-white, drill hole Ø: 55 mm

Q



Häfele Loox LED 2048/3039





| 2700 K | 5000 K | 120° | |
|---------|--------|-----------------|---------|
| 290 lx | 345 lx | - •• | 250 mm |
| 110 lx | 130 lx | * - | 500 mm |
| 60 lx | 70 lx | * - | 750 mm |
| 40 lx | 45 lx | * | 1000 mm |
| LED 204 | 18 | | |

| 270 | 00 K | 5000 K | 120° | |
|-----|--------------|--------|--------------------|-----------|
| 33 | 5 lx | 350 lx | - / •⁄- | 250 mm |
| 12 | 5 l x | 130 lx | * | 500 mm |
| 7 | 0 lx | 70 lx | * - | 750 mm |
| 4 | 5 lx | 45 lx | * | - 1000 mm |
| LED | 303 | 9 | | |

> Dimmable: Yes, via Häfele BLE box

> Material: Stee

> Finish: Silver coloured, Polished chrome plated

> Energy efficiency class: A+ > Degree of protection: IP20

> Mounting: For mounting in drilled hole, for clamp

fixing or for screw fixing

> Drill hole Ø: 55 mm

> Supplied with: 1 light with 2 m multi-white lead

Use Hafele BLE Box to operate Multi white LED Lights. See page 88



HAFELE

Häfele Loox LED 2048/3039

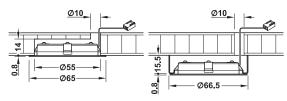
| Voltage V | Number of | Colour tempera- ture | Wattage | Luminous flux | Luminous efficacy | Colour ren- dering index CRI | Weighted energy con- sumption | Silver colour- ed | Polished chrome plated |
|--------------|-------------|----------------------------|---------|------------------|-------------------|------------------------------------|-------------------------------------|----------------------|------------------------|
| | LEDs | K | W | lm | lm/W | R _a | kWh/1000 h | | |
| 12 V | Häfele Loox | LED 2048 | | | | | | | |
| | 60 | 2700 - 5000 | 3 | 255 | 85 | 90 83 | 3.3 | 833.72.311 | 833.72.310 |
| 24 V | Häfele Loox | LED 3039 | | | | | | | |
| | 60 | 2700 - 5000 | 3 | 258 | 85 | 90 83 | 3.3 | 833.75.131 | 833.75.130 |





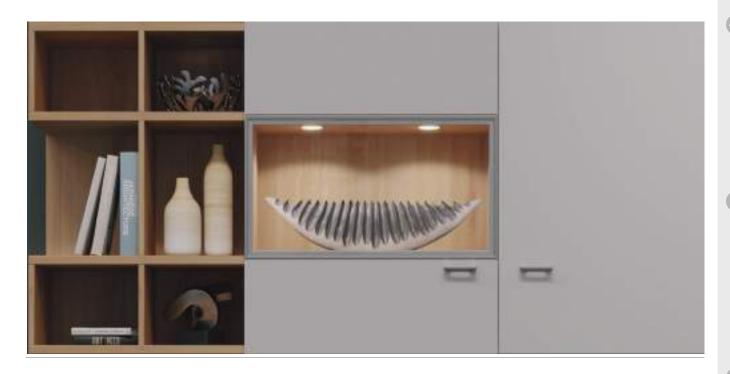
Downlight housing

| Colour | Cat. No. |
|------------------------|------------|
| Silver coloured | 833.72.803 |
| Polished chrome plated | 833.72.802 |



Recess mounting

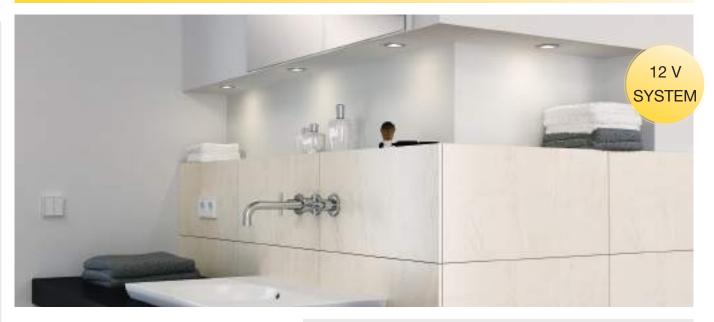
Mounting as downlight



Recess/surface mounted downlights

Monochrome, drill hole Ø: 55 mm

Häfele Loox LED 2020





| PARTILLES. | |
|------------|--|
| | |
| | |
| | |
| | |

| > Dimmable: | Yes |
|-------------|------------|
| > Material: | Zinc alloy |

> Finish: Black, Matt nickel plated, Polished chrome

plated

> Energy efficiency class:

IP44 as recess mounted downlight; > Degree of protection:

IP20 with downlight housing (surface

mounted downlight)

> Number of LEDs:

For mounting in drilled hole, for clamp > Mounting:

fixing or for screw fixing

> Drill hole Ø: 55 mm

> Supplied with: 1 light with 2 m lead, including fixing materials

| 760 lx | 860 lx | 840 lx | ※ - | - 250 mm |
|----------------|--------|--------|---------------------------|-----------|
| 190 l x | 215 lx | 210 lx | - \ \(\sqrt{-} | - 500 mm |
| 85 lx | 95 lx | 95 lx | * | - 750 mm |
| 48 lx | 50 lx | 50 lx | > - | - 1000 mm |



Loox 12 V driver see page 92



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

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





3000 K 4000 K 5000 K

HÄFELE

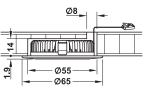
Häfele Loox LED 2020

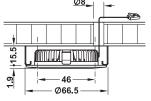




Downlight housing

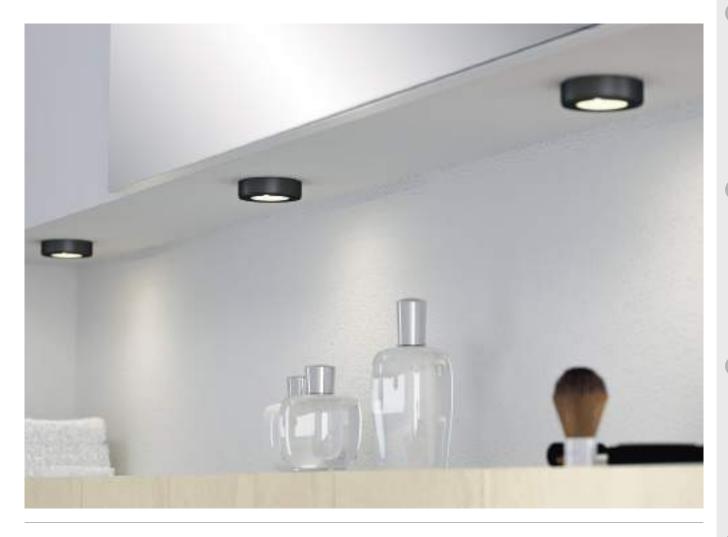
| Colour | Cat. No. |
|------------------------|------------|
| Black | 833.72.801 |
| Matt nickel plated | 833.72.800 |
| Polished chrome plated | 833.72.802 |





Recess mounting

Mounting as downlight

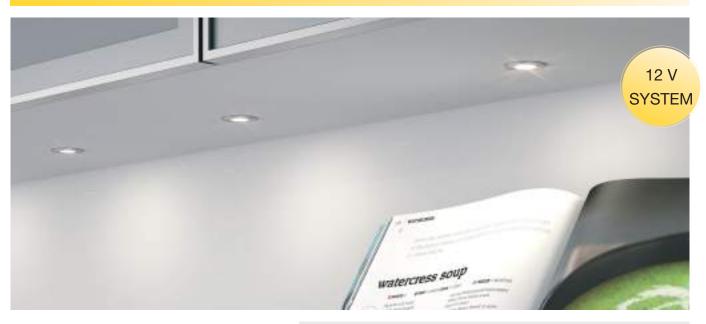


Recess/surface mounted downlights

Monochrome, drill hole Ø: 26 mm



Häfele Loox LED 2022





> Dimmable: Yes > Material: Aluminium

> Finish: Silver coloured anodized

> Energy efficiency class:

> Degree of protection: IP44 as recess mounted downlight;

IP20 with downlight housing (surface

mounted downlight)

> Number of LEDs:

> 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 |
| | | | | |



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

| Voltage V | Colour temperature | Wattage W | Luminous flux | efficacy | Colour render- ing index CRI R _a | Weighted energy consumption kWh/1000 h | Cat. No. |
|--------------|--------------------|--------------|---------------|----------|--|--|------------|
| 12 V | 3000 | 1.5 | 105 | 70 | 82 | 1.65 | 833.72.040 |
| | 4000 | 1.5 | 105 | 70 | 87 | 1.65 | 833.72.041 |
| | 5000 | 1.5 | 105 | 70 | 88 | 1.65 | 833.72.042 |





HXFELE

Häfele Loox LED 2022





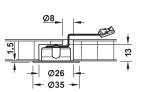
| Colour | Cat. No. |
|--------------------------|------------|
| Silver coloured anodized | 833.72.831 |

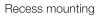


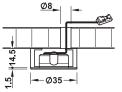
Downlight housing, wedge-shaped

| Colour | Cat. No. | |
|--------------------------|------------|--|
| Silver coloured anodized | 833.72.832 | |
| | | |

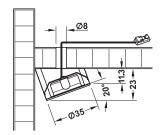


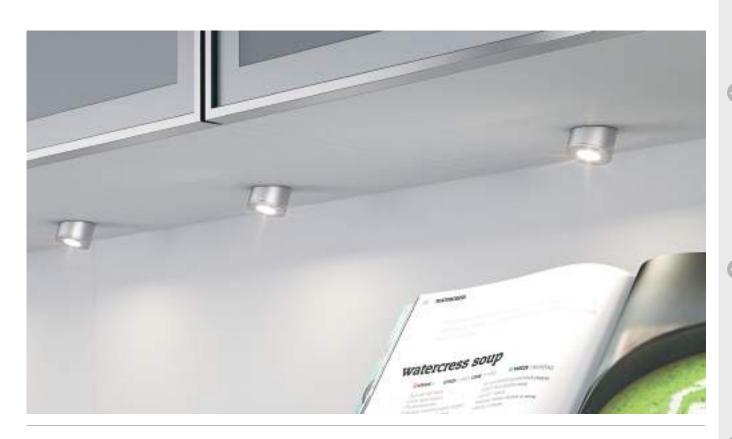






Mounting as downlight





Recess mounted downlights

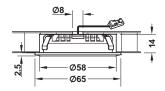
Monochrome, drill hole Ø: 58 mm



Häfele Loox LED 2039







| 3000 K | 94° | |
|--------|---------------|-----------|
| 785 lx | ※ - | 250 mm |
| 196 lx | - | _ 500 mm |
| 87 lx | * | - 750 mm |
| 49 lx | × - | - 1000 mm |

> Dimmable: Yes > Material: Zinc alloy > Finish: Matt nickel plated

> Energy efficiency class:

> Degree of protection: IP65 after installation

> Number of LEDs:

> Mounting: For mounting in drilled hole, for clamp

fixing

> Drill hole Ø: 58 mm

> Supplied with: 1 light with 4 m lead





Loox 12 V driver see page 92

| Voltage V | Colour tem- perature | Wattage W | Luminous flux | Luminous efficacy Im/W | index | Weighted energy consumption kWh/1000 h | Cat. No. |
|--------------|-------------------------|--------------|---------------|------------------------------|-------|--|------------|
| 12 V | 3000 | 2.5 | 125 | 50 | 85 | 2.75 | 833.72.091 |





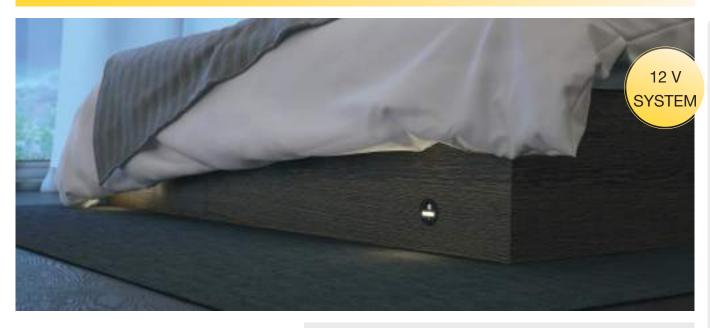


Recess mounted downlights

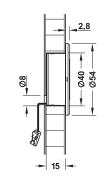
Monochrome, sensor-controlled, drill hole Ø: 40 mm



Häfele Loox LED 2028 with motion detector







> Dimmable

> Material: Stainless steel, plastic

> Finish: Black

> Version: With motion detector active from a decreasing ambient light of 15 lx

> Energy efficiency class: Α+ IP44 > Degree of protection:

> Delay time:

approx. 2 min. 0-3000 mm > Sensor range:

> Number of LEDs:

> Mounting: For mounting in drilled hole

> Drill hole Ø:

> Supplied with: 1 light with 2 m lead including fixing

materials

| 2700 K | | 69° | | |
|--------|-----|-----|---|---------|
| 26 lx | / : | | + | 250 mm |
| 7 lx | • | | | 500 mm |
| 3 lx | • | | + | 750 mm |
| 1.6 lx | | • | | 1000 mm |



| Voltage V | Colour temperature | Wattage W | Luminous flux | Luminous efficacy Im/W | | Weighted energy consumption kWh/1000 h | Cat. No. |
|--------------|--------------------|--------------|---------------|------------------------------|----|--|------------|
| 12 V | 2700 | 0.3 | 4 | 13 | 90 | 0.37 | 833.73.111 |



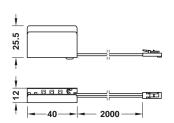
Glass edge light

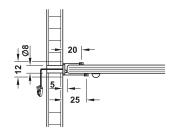
Monochrome

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:

> Material: Stainless steel > Length x width: 40 x 25.5 mm

> Height: 12 mm IP20 > Degree of protection:

> Number of LEDs:

> 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

Loox 12 V driver see page 92

| Voltage | Colour temperature | Wattage | Luminous flux | efficacy | ing index CRI | Weighted en- ergy consump- tion | Finish/colour | Cat. No. |
|---------|-----------------------|---------|---------------|----------|----------------|---------------------------------------|---------------|------------|
| | r. | VV | lm | lm/W | R _a | kWh/1000 h | | |
| 12 V | 4000 | 0.2 | 15 | 75 | 88 | 0.22 | Bright | 833.74.130 |
| | 6000 | 0.2 | 19 | 95 | 84 | 0.22 | Bright | 833.74.120 |



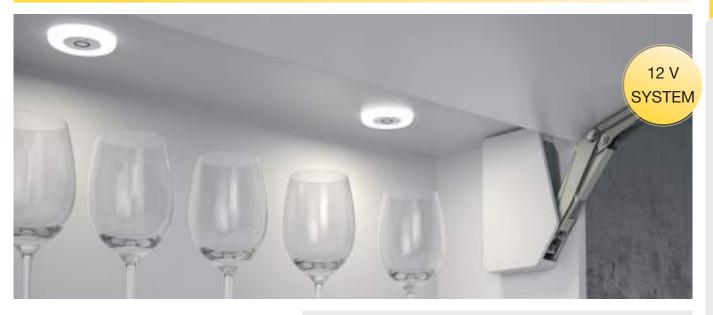


Surface mounted downlights

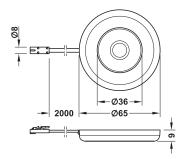
Monochrome, Ø 65 mm



Häfele Loox LED 2027







> Dimmable: Yes

Material: Aluminium, plastic
Finish: Silver coloured
Diameter: 65 mm
Height: 9 mm

> Energy efficiency class: A+
> Degree of protection: IP20
> Number of LEDs: 27

Mounting: For screw fixing
 Supplied with: 1 light with 2 m lead, including fixing materials



| 3000 K | 4000 K | 5000 K | 117° | |
|----------------|--------|---------------|------|----------|
| 867 l x | 884 lx | 918 lx | ※ | 250 mm |
| 216 lx | 221 lx | 229 lx | | _ 500 mm |
| 96 lx | 98 lx | 102 lx | * | _ 750 mm |
| 54 I x | 55 lx | 57 I x | * | 1000 mm |

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

NATING F

Flexible surface mounted lights

Monochrome with USB



Häfele Loox LED 2034



CHARGING STATION

450

450

15.5

15.5

> 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

> Mounting: For screw fixing beneath magnetic cover

> Supplied with: 1 light with 2 m lead including fixing

materials

Loox 12 V driver see page 92

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 | Colour temperature | Wattage W | Luminous flux Im | | Colour rendering index CRI | Weighted en- ergy consump- tion kWh/1000 h | Finish/ colour | Cat. No. |
|---------|--------------------|-----------------|------------------------|----|----------------------------|---|-------------------|------------|
| 12 V | 4000 | 17 (light: 1.5) | 105 | 70 | 82 | 1.65 | Black | 833.74.097 |

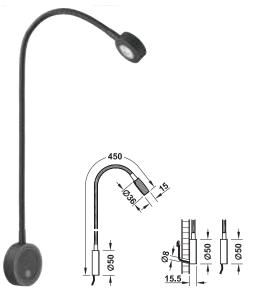
Flexible surface mounted lights

Monochrome



Häfele Loox LED 2035





> Dimmable: Yes

> Version: Integrated push switch for 2 brightness

levels

Material: Aluminium
 Length x width: 450 x 50 mm
 Height: 15.5 mm
 Energy efficiency class: A+

> Degree of protection: IP20 > Number of LEDs: 3

> Mounting: For screw fixing beneath magnetic cover

> Supplied with: 1 light with 2 m lead,

including fixing materials

12 V

Loox 12 V driver see page 92

| 4000 K | 90° | |
|--------|----------|-----------|
| 650 lx | 淡 | 250 mm |
| 163 lx | | _ 500 mm |
| 72 lx | ** | - 750 mm |
| 40 lx | * | - 1000 mm |

| Voltage | Colour temperature K | Wattage W | Luminous flux Im | Luminous efficacy Im/W | Colour rendering index CRI | Weighted en- ergy consump- tion kWh/1000 h | Finish/colour | Cat. No. |
|---------|----------------------------|--------------|------------------------|------------------------------|----------------------------|---|---------------|------------|
| 12 V | 4000 | 1.5 | 105 | 70 | 82 | 1.65 | Black | 833.74.153 |

Recess mounted lights

Monochrome

Häfele Loox LED 2036



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

> Dimmable:

> Material:

Aluminium, acrylic glass

> Length:

250 mm

> Width:

50 mm

> Height:

18.5 mm

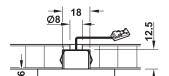
> Energy efficiency class:

A+

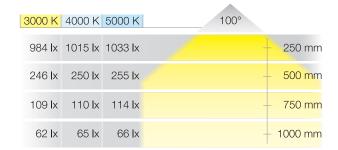
> Number of LEDs:

> Supplied with:

1 light with 2 m lead,







| Voltage | Colour temperature | Wattage W | Luminous flux | Luminous efficacy | Colour rendering index CRI | Weighted en- ergy consump- tion kWh/1000 h | Finish/colour | Cat. No. |
|---------|--------------------|--------------|---------------|----------------------|----------------------------|---|---------------|------------|
| 12 V | 3000 | 3.6 | 182 | 51 | 82 | 3.96 | White | 833.72.080 |
| | 4000 | 3.6 | 190 | 53 | 82 | 3.96 | White | 833.72.081 |
| | 5000 | 3.6 | 210 | 58 | 82 | 3.96 | White | 833.72.082 |









Recess/surface mounted downlights

Monochrome

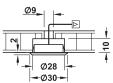
Häfele Loox LED 4004

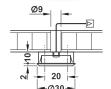


The small and slimline LED 4004 puts objects firmly in the spotlight in the recess mounted and down lit









> Dimmable:

> Material:

> Height: > Ø:

> Drill hole Ø:

> Number of LEDs:

> Energy efficiency class:

> Supplied with:

Yes Plastic

12 mm 30 mm

28 mm

1 A+

3 lights with 2 m lead and housing each, and fixing material

350 mA Loox 350 mA driver see page 94

| 3000 K | 130° |
|--------|-----------|
| 244 lx | - 250 mm |
| 61 lx | _ 500 mm |
| 27 lx | - 750 mm |
| 15 lx | - 1000 mm |

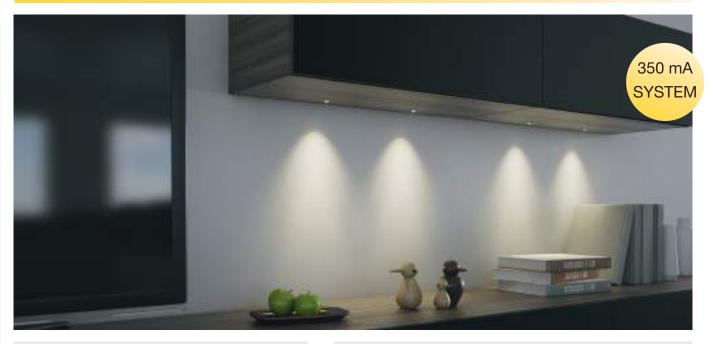
| Voltage | Colour temperature | Wattage W | Luminous flux | | | Weighted en- ergy consump- tion kWh/1000 h | Finish/colour | Cat. No. |
|---------|--------------------|--------------|---------------|----|----|---|-----------------|------------|
| 350 mA | 3000 | 1 | 80 | 80 | 80 | 1.10 | Silver coloured | 833.78.080 |

Recess/surface mounted downlights

Monochrome, round with lens



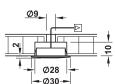
Häfele Loox LED 4005



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







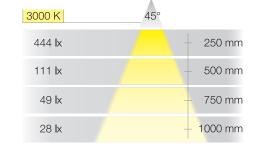


> Dimmable: Yes Plastic > Material: 12 mm > Height: > Ø: 30 mm > Drill hole Ø: 28 mm > Number of LEDs: > Energy efficiency class: A+

> Supplied with: 3 lights with 2 m lead and housing each, and fixing material



350 mA Loox 350 mA driver see page 94



| Voltage | Colour temperature | Wattage | Luminous flux | | | Weighted energy consumption kWh/1000 h | Finish/colour | Cat. No. |
|---------|--------------------|---------|------------------|------|----------------|--|-----------------|------------|
| | K | W | lm | lm/W | R _a | | | |
| 350 mA | 3000 | 1 | 63 | 63 | 80 | 1.10 | Silver coloured | 833.78.100 |









Deco shelf light

LED Decorative Box Shelf Light



Deco LED Box Shelf Lights seamlessly blend into the environment giving a floating effect to your precious artefacts. The design accentuates your wall spaces, adding more light and airy feel in your room.

> Material:

> Switching:

> Input Voltage:

> Supplied with:

> Supplied with > Driver:

/ DIIVOI

> Life

> Warranty:

Aluminium with Glass Shelf On /Off Switch Inbuilt

230\/

Allen Key & Mounting Screws

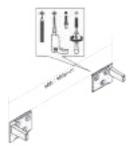
Built-In Driver

50,000 hours (LED)

2 year

| Colour temperature K | Luminous Intensity Im | | • | Load Bearing Capacity Kg | Cat. No. |
|----------------------------|-----------------------------|----------------|----|--------------------------------|------------|
| 4000 | 350 | 600 X 200 X 40 | 10 | 1 | 833.14.670 |
| 4000 | 550 | 900 X 200 X 40 | 13 | 2 | 833.14.671 |









Deco shelf light

LED Corner Shelf Light



Deco LED Corner Shelf Light reinforces the brightness in crisp white spaces and keep dark rooms from being too heavy. The design accentuates the corners of your wall spaces, adding more light and airy feel in your room.

> Material:

> Switching:

> Supplied with:

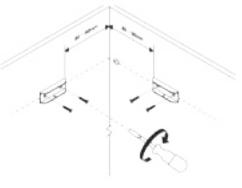
> Warranty:

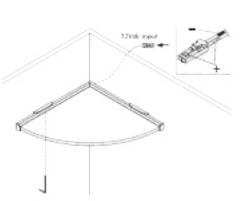
Aluminium with acrylic shelf

External switch

1.5m cable with MOLEX connector and 2 side bracket

rranty: 2 years





| /olt- ige | | Luminous Intensity | LXWXH | Output | Load Bearing Capacity | Cat. No. |
|--------------|------|-----------------------|----------------|--------|-----------------------------|------------|
| | K | lm | mm | W | Kg | |
| 12 V | 4000 | 300 | 202 X 202 X 15 | 4.5W | 0.7 | 833.14.672 |





Box shelf light

LED Lit Glass Shelf Box



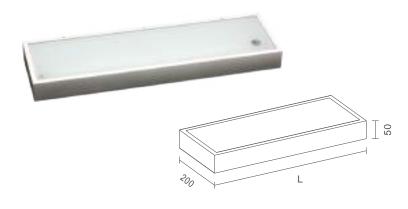
Decorative lights add the much needed zing and drama to enhance your furniture and design objects. They add a dimension of style and aesthetics to match the individualist grace of your homes.

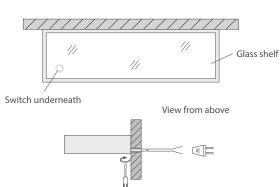
The effortless yet uniquely crafted designs speak utmost of the change it can bring to the entire ambience. > Works directly on 220 VAL mains

> Switching: Built-in on/off switch > Life: 50,000 hours (LED)

> Load bearing capacity: 10 kgs

> Driver: Built-in LED driver

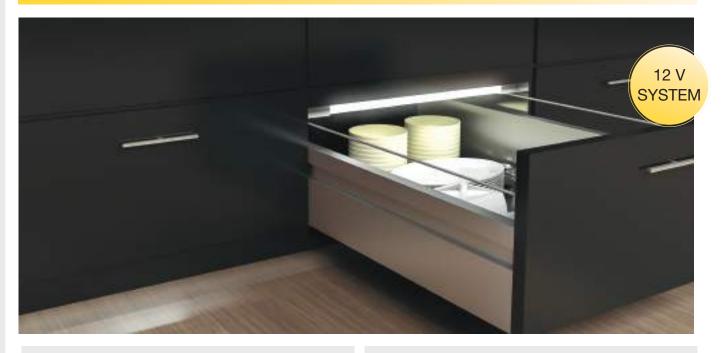




| Output | Colour temperature | LXWXH | Finish | Cat. No. |
|--------|--------------------|----------------|-----------------------------------|------------|
| W | К | mm | | |
| 6 | 6400 | 600 X 200 X 50 | Silver Anodized Aluminium Profile | 833.14.271 |
| 9 | 6400 | 900 X 200 X 50 | Silver Anodized Aluminium Profile | 833.14.272 |

LED drawer light & Two way profile light

LED Drawer Light with Built-in Infra Red Sensor



LED Drawer Light helps you locate and search through the drawer and cabinet contents. The inbuilt sensor gets activated by the movement of door, automatically switching on and off as you open and close the drawer / shutter.

- > LED Drawer Light with Built-in Infra Red Sensor
- Silver Anodized Aluminium Profile
- Life: 50,000 hours

LED drawer lights

Colour

6400

6400

temperature

Output

W 2.4

5.2



The Two Way Profile Light helps illuminate the undercabinet area as well as the area inside of the cabinet. It also simultaneously functions as a handle for your wall cabinet.



863 X 18 X 14 6 563 X 18 X 13 833.71.889 5000 6 5000 863 X 18 X 13 833.71.836

LXWXH

563 X 18 X 14

Cat. No.

833.01.003

833.01.006

- Two Way Profile Light with Built-in Infra Red Sensor
- Silver Anodized Aluminium Profile
- Life: 50,000 hours

| | - |
|--|-----|
| | |
| | 100 |

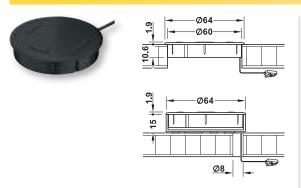
| Two way profile lights | | | | |
|------------------------|----------------------------|---------------------------------------|--|--|
| Colour temperature | LXWXH | Cat. No. | | |
| K | mm | | | |
| 3000 | 563 X 50 X 19 | 833.70.178 | | |
| 3000 | 863 X 50 X 19 | 833.70.179 | | |
| | Colour temperature K | Colour temperature K mm 563 X 50 X 19 | | |



Extending

Charging Stations

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



> Material/colour: Plastic, matt black

64 > Diameter: > Charging current: 1 A 5 V > Output voltage:

> 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 | | Cat. No. |
|---------|-------------------------------------|------------|
| 12 V | ESC 2002 inductive charging station | 833.73.776 |

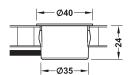
Drill hole Ø for plug: 8 mm

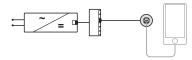


Loox 12 V driver see page 92

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







> Material: Plastic, matt 5 V > Output voltage: > Output current: 2 A Max. 15 W > Power consumption: 35 mm > Drill hole Ø: For mounting in drilled hole, > Mounting:

for clamp fixing

> Supplied with: 1 USB charging station

| Colour | Round |
|--------|------------|
| Black | 833.73.751 |

| C Lead with snap-in connector | | | |
|-------------------------------|------------|--|--|
| mm | Cat.No | | |
| 500 | 833.72.880 | | |
| 1000 | 833.72.881 | | |
| 2000 | 833.72.882 | | |



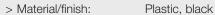
Sound systems



420 E sound system, exciter speakers







> Dimensions. 140 x 45 x 15 mm (L x W x H)

> Power consumption: Operation with 2 exciter speakers: Max. 19 W,

operation with 4 exciter speakers: Max. 32 W,

standby: <0.3 W

> Music wattage: Operation with 2 or 4 exciter speakers:

2 x 10 W (RMS)

> Reception range: Max. 10 m

> Mounting: For screw fixing

1 Bluetooth® receiver with 2 m lead and > Supplied with:

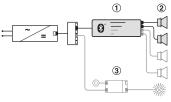
4 connections for exciter speakers,

incl. 2 exciter speakers





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.



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

Loox 12 V driver see page 92



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. 822.65.039 Exciter speaker (wattage with 12 V plug system)



Cat. No.

822.65.034

Pop-Up-Sockets

Pop-up Socket





Less is indeed more! Functionality at a pull. Häfele integrates concepts of space efficiency, functionality, ease, entertainment and advanced technology seamlessly into its New Pop-up Socket Systems.

- > Effective utilisation of space
- > Reduces dependency on the traditional wall socket systems:
- > Packs-in a unique dose of entertainment through the integrated Bluetooth audio system.
- > Is splash-proof (IP54 in a close position) which means that it is resistant to water splashing from all directions

| Туре | Dimensions (mm) | No. of Sockets | Input | Cat. No. |
|---|--------------------|---|---------------------|------------|
| Pop-up Socket with Bluetooth Speaker | 430 x Ø100 | 10A universal socket x 2 USB socket (Max.2100mA) x 2 Bluetooth audio system x 1 On/Off neon switch x 1 2 meter cable with SA plug | 220 – 240 V ~ 50 Hz | 822.80.900 |
| Pop-up Socket without Bluetooth Speaker | 430 x Ø100 | 10A universal socket x 2 USB socket (Max.2100mA) x 2 On/Off neon switch x 1 2 meter cable with SA plug | 220 – 240 V ~ 50 Hz | 822.80.901 |



Switching

Sensor switches

| Sensor switch | > Page 81 |
|------------------------|-----------|
| Door sensor switch | > Page 81 |
| Motion detector | > Page 81 |
| Dimmer | > Page 82 |
| Captive switch/ | > Page 82 |
| dimmer | |
| Sensor switch, surface | > Page 83 |
| mounted | |



Sensor switch for aluminium profiles

Door sensor for drawer > Page 83 profile



Mechanical switches

| > Page 84 |
|-----------|
| > Page 84 |
| > Page 85 |
| > Page 85 |
| |



Multi switch box, multi driver box

| Multi switch box | > Page 86 |
|------------------|-----------|
| Multi driver box | > Page 87 |



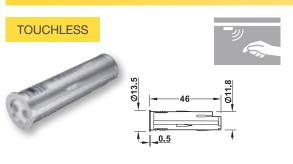
Symbol overview

| Sensor switch Touchless, soft on/off switching | _m |
|--|----------|
| Door sensor switch Soft on/off switching | -(m1)) |
| Motion detector Automatic on/off switching | ₹ |
| Dimmer Soft on/off switching and dimming | 10% |
| Captive switch/dimmer Touchless on/off switching and dimming | |
| Universal door contact switch On/off switching | * |
| Door contact switch On/off switching, door close = light off, door open = light on | |
| Rocker switch On/off switching | |

HXFELE

Sensor switches

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



> 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 |

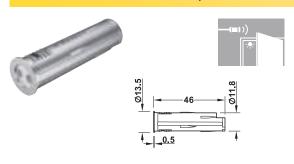


Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142. See page 84



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

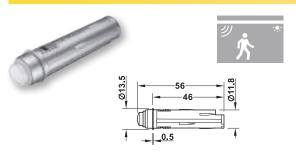
> Degree of protection: IP20
> Sensor range: 0–100 mm
> Power consumption: ≤0.3 W
> Drill hole Ø: 12 mm
> Supplied with: 1 switch

| | 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 84

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

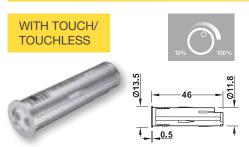
| | Cat. No. |
|--------------------------|------------|
| Motion detector, modular | 833.89.129 |
| | |



Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142. See page 84

Sensor switches

Häfele Loox dimmer, modular - automatic on/off switching



> Material/colour: Plastic, silver coloured

> Degree of protection: IP20
> Power consumption: ≤0.3 W
> Drill hole Ø: 12 mm
> Supplied with: 1 dimmer

| Туре | 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 84

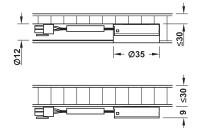


Dimming value is stored without the need for voltage supply (memory function)

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







- > 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 |

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



Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142. See page 84



HAFELE

Sensor switches

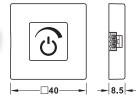
Häfele Loox dimmer, surface mounted modular - soft on/off switching and dimming

WITH TOUCH





With touch function

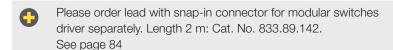


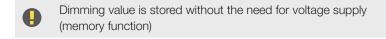
> Material/colour: Plastic, silver coloured > Dimesion: 40 x 40 x 8.5 mm (L x W x H)

> Degree of protection: IP20
> Sensor range: 0–100 mm
> Power consumption: ≤0.3 W

> Supplied with: 1 switch with fixing material

| | Cat. No. |
|-----------------------------|------------|
| Modular dimmer (with touch) | 833.89.134 |





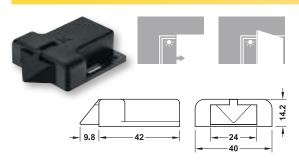
Häfele Loox door sensor for drawer profile



| Door sensor | |
|--|------------|
| | Cat. No. |
| Door sensor for Loox drawer profile for 833.74.835 | 833.89.110 |

Mechanical switches

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



> Material/colour: Plastic, black

> Dimension: 51.8 x 40 x 14.2 mm (L x W x H)

> Degree of protection: IP20

> Supplied with: 1 switch with fixing material

| | Cat. No. |
|--|------------|
| Universal door contact switch, modular | 833.89.143 |



Please order lead with snap-in connector for modular switches driver separately. Length 2 m: Cat. No. 833.89.142. See page 84



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

Häfele Loox lead with snap-in connector for modular switches



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

| | Length mm | Cat. No. |
|---|-----------|------------|
| Lead with snap-in connector for modular | 1000 mm | 833.89.141 |
| switches | 2000 mm | 833.89.142 |

0

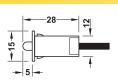
Required for modular switches



Drill hole Ø for plug: 12 mm

Häfele Loox door contact switch - on/off switching







> Material/colour: Plastic, Black

> Degree of protection: IP20 > Drill hole Ø: 12 mm > Length 28 mm

> Supplied with: 1 switch with 2 m lead

| | Cat. No. |
|---------------------|------------|
| Door contact switch | 833.89.059 |



Drill hole Ø for plug: 12 mm



HAFELE

Mechanical switches

Häfele Loox rocker switch - on/off switching







> Material/colour: Plastic, black > Diameter: 15 mm > Height: 17.7 mm > Drill hole Ø: 12 mm

> Supplied with: 1 switch with 2 m lead

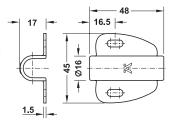
Cat. No. Rocker switch 833.89.106



Drill hole Ø for plug: 12 mm

Housing for switch, surface mounted





> Dimension: 48 x 45 x 17 mm (L x W x H)

> Diameter: 16 mm

> Material/colour: Plastic, silver coloured

> Supplied with: 1 housing

> Application: For switch Ø 12 mm

| | Cat. No. |
|--------------------|------------|
| Housing for switch | 833.89.090 |
| | |



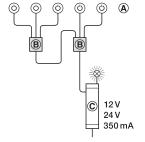
Suitable for 32 mm series drilled holes



Multi switch box

Häfele Loox multi switch box





- A Switch
- Multi switch box
- © Driver



> 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
> Standby power consumption: ≤0.3 W
> Degree of protection: IP20

> Supplied with: 1 multi switch box with 1 m lead for

switch

| | Cat. No. |
|------------------|------------|
| Multi-switch box | 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 \varnothing for the male plug and the female socket of the switch leads is 12 mm.

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.

Häfele Loox extension lead for switches





> Length: 2000 mm > Supplied with: 1 lead

| | Cat. No. |
|-----------------------------|------------|
| Extension lead for switches | 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 \varnothing for the male plug and the female socket of the switch leads is 12 mm.



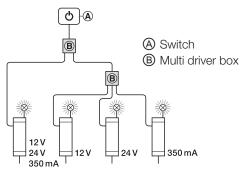


Multi driver box

Häfele Loox multi driver box







> Material/colour: Plastic, black > Length x width: 50 x 40 mm 19 mm > Height: > Standby power consumption: 1.5 W

> Supplied with: 1 multi driver box with 3 x 1 m lead

for switch

| | Cat. No. |
|------------------|------------|
| Multi-driver box | 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 \emptyset for the male plug and the female socket of the switch leads is 12 mm.

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.

Häfele Loox extension lead for switches





2000 mm 1 lead > Supplied with:

| | Cat. No. |
|-----------------------------|------------|
| Extension lead for switches | 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 \emptyset for the male plug and the female socket of the switch leads is 12 mm.

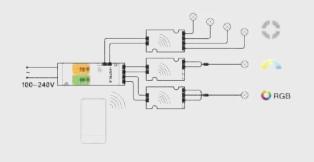


Networking

Häfele Connect BLE Box



- > The Häfele Connect BLE box (Bluetooth low energy technology ideal protocol for wireless light control) makes it possible to intuitively control furniture lighting and electrically operated fittings using a convenient app.
- > A 12 V or 24 V driver supplies the BLE box via two leads. A single BLE Box or an entire network of BLE boxes is intuitively controlled via a Smartphone or tablet.
- > The Häfele Connect App makes it possible to control individual lights and electrically operated fittings.



- > The app controls the switching status (on/off), the brightness (0–100%) and also the colour temperature (with multi white lights) and the light colour (with RGB lights).
- > All parameters can be saved as scenarios and retrieved at any time. Even time-controlled alteration of the brightness, the colour temperature, the light colour and the position of fittings is possible.
- > Real-life images of the actual room and the actual lights provide an intuitive operating experience. The Häfele Connect App is free for Apple IOS® and Android™.



| Voltage | Version | Number of connections | LXWXH | • | Standby power consumption | Supplied with | Cat. No. |
|---------|---|-----------------------|---------------|--|---------------------------|---------------------------|-----------------------|
| V | | | mm | | W | | |
| 12 V | For on/off switching and dimming of lights (0–100%). | | 100 x 57 x 17 | Single unit output: max. 30 W; Total output for all units: max. 60 W | <0.5 W | 1 BLE box, lead 300 mm | BLE box 850.00.005 |
| 24 V | Please order the BLE adapter separately for operating RGB lights or multi white lights. | | 100 x 57 x 17 | Single unit output: max. 60 W; Total output for all units: max. 90 W | <0.6 W | 1 BLE box, lead 300 mm | BLE box 850.00.006 |



Häfele Connect BLE Box



Multi-white lights adaptor for BLE box

| Voltage | Output Slots | Cat. No. |
|---------|--------------|------------|
| 12 V | 8 | 850.00.011 |
| 24 V | 8 | 850.00.012 |

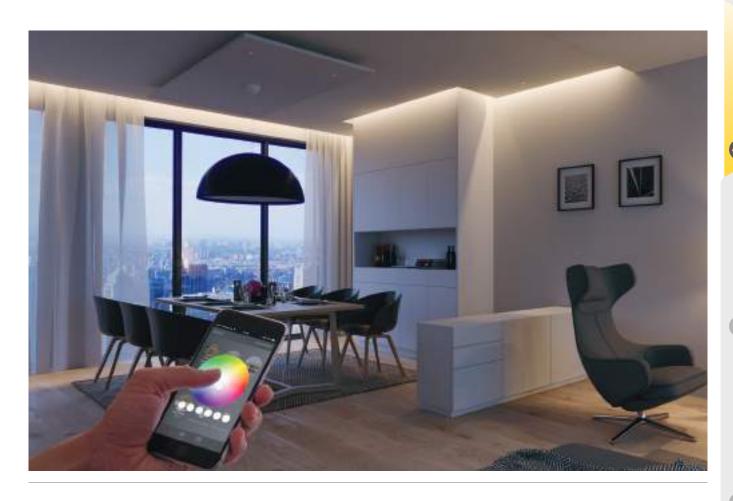


RGB lights adaptor for BLE box

| Voltage | Output Slots | Cat. No. |
|---------|--------------|------------|
| 12 V | 4 | 850.00.013 |



- > The distance between the Smartphone or tablet to the nearest BLE box is approx.10 m.
- > Multiple BLE boxes create a network, and can also be placed approx.10 m apart.
- > One BLE box occupies 2 outputs of the driver.



Distributing

Main leads

Country-specific main leads, socket at cable: C7



| > Voltage: | 250 V |
|------------------|---------|
| > Length: | 2000 mm |
| > Supplied with: | 1 piece |

| Plug design | Cat. No. |
|-------------|------------|
| • • | 833.89.002 |
| > | 833.89.009 |

Switch leads

Häfele Loox extension lead for switches



> Area of application: Switches and modular switches > Length: 2000 mm

> Drill hole Ø: Plug 12 mm

> Supplied with: 1 extension lead plug/socket

| Length mm | Cat. No. |
|-----------|------------|
| 2000 | 833.89.067 |



> Supplied with:

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

| Length mm | Cat. No. |
|-----------|------------|
| 1000 | 833.89.141 |
| 2000 | 833.89.142 |

1 lead plug/plug

Cable routing

Häfele Loox cable channel







- > Dimension: 2500 x 12 x 7.5 mm (L x W x H)
- > Application: Concealing visible cables in furniture and

cabinets

> Supplied with: 1 cable channel with adhesive tape

| Finish | Cat. No. |
|-----------------|------------|
| Brown, RAL 8007 | 833.89.023 |
| White, RAL 9010 | 833.89.013 |



Supplying

Driver, Constant voltage 12 V

Häfele Loox wall plug driver 12 V



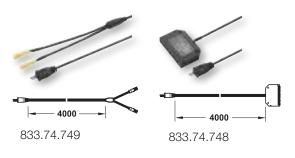
> Colour: Black
> Degree of protection: IP20

> Input voltage: 100-240 V~; 50-60 Hz

> Output voltage: DC 12 V > Standby power consumption: 0.1 W

> Supplied with: 1 wall plug driver

| Plug design/ designation | Output power W | Dim. (L x W x H) mm | Cat. No. |
|-----------------------------|-------------------|------------------------|------------|
| • EU | 6 | 61 x 37 x 57 | 833.74.933 |
| | 15 | 78 x 46 x 68 | 833.74.935 |
| | 27 | 84 x 50 x 72 | 833.74.937 |



| Plug design/ designation Cat. | No. |
|--|--------|
| 4 m lead 2.5 A/22 AWG with 2 slots 833.7 | 74.749 |
| 4 m lead 2.5 A/22 AWG with 6-way distributor 833.7 | 74.748 |





Loox LED Driver

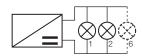
Constant voltage 12 V

Häfele Loox driver constant voltage 12 V









Parallel connection



Article No.: 833.74.960 $\bigotimes_1 + \bigotimes_2$ $+...+ \bigotimes_{6} < 20 \text{ W}$

Article No.: 833.74.962 $\bigotimes_1 + \bigotimes_2$

+...+ ⊗₆ < 40 W

Article No.: 833.74.964 $\bigotimes_1 + \bigotimes_2$ $+...+\bigotimes_{6} < 60 \text{ W}$

max. 42 W per light output

> 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: 6 x consumer, 1 x switch

> Supplied with: 1 driver with mounting accessories

| 12 V | Output power | Output current | Standby power consump- tion W | Dim. (L x W x H) mm | Cat. No. |
|------|-----------------|-------------------|---|---------------------------|------------|
| 1 | 0-20 | 1.67 | ≤0.1 | 140 x 50 x 16 | 833.74.960 |
| 2 | 0-40 | 3.33 | ≤0.1 | 190 x 60 x 16 | 833.74.962 |
| 3 | 0-60 | 3.5 | ≤0.2 | 230 x 70 x 16 | 833.74.913 |

The driver is the heart of the Loox system, and is suitable for connecting to all of the worlds most frequently used mains voltages and frequencies. All of the switches in the Loox product range can be connected to the drivers with a universal switch input. All drivers are energy efficient and equipped with overload protection.



- > Lead length from driver to switch max. 6 m..
- > Provide for sufficient air supply and circulation at the mounting location of the driver.

| • | Country-specific mains leads | | | |
|----------|---|---------------|------------|--|
| | Description:Supplied with: | EU 1 piece | | |
| | Plug design | | Cat. No. | |
| | •• | | 833.89.002 | |
| | > | | 833.89.009 | |

















Loox LED Driver

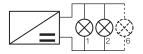
Constant voltage 24 V

Häfele Loox driver constant voltage 24 V









Parallel connection

| • |
|---|
| U |

Article No.: 833.77.945 $\bigotimes_1 + \bigotimes_2$ $+...+\bigotimes_{6} < 20 \text{ W}$

Article No.: 833.77.947 $+...+\bigotimes_{6} < 40 \text{ W}$ $\bigotimes_{1} + \bigotimes_{2}$

Article No.: 833.77.949 $\bigotimes_1 + \bigotimes_2 + ... + \bigotimes_6 < 90 \text{ W}$ max. 84 W per light output

> Version: With overload protection

> Colour: Black > Degree of protection: IP20

> Input voltage: 100-240 V~; 50-60 Hz

DC 24 V > Output voltage:

> Number of connections: 6 x consumer, 1 x switch

> Supplied with: 1 driver with mounting accessories

| 24 V | Output power | Output current | Standby power consump- tion W | Dim. (L x W x H) mm | Cat. No. |
|------|-----------------|-------------------|---|---------------------------|------------|
| 0 | 0-20 | 0.83 | ≤0.1 | 140 x 50 x 16 | 833.77.945 |
| 2 | 0-40 | 1.67 | ≤0.1 | 190 x 60 x 16 | 833.77.947 |
| 3 | 0-90 | 3.5 | ≤0.2 | 316 x 70 x 16 | 833.77.949 |

The driver is the heart of the Loox system, and is suitable for connecting to all of the world's most frequently used mains voltages and frequencies. All of the switches in the Loox product range can be connected to the drivers with a universal switch input. All drivers are energy efficient and equipped with overload protection.



- > Lead length from driver to switch max. 6 m.
- > Provide for sufficient air supply and circulation at the mounting location of the driver.

| • | Country-specific mains | leads |
|----------|------------------------|-------|

> Description: EU > Supplied with: 1 piece

| Plug design | Cat. No. |
|-------------|------------|
| •• | 833.89.002 |
| >= | 833.89.009 |
| | |

















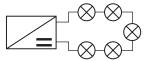


Loox LED Driver

Constant current 350 mA

Häfele Loox driver 350 mA





Series connection



Article No.: 833.80.900

 $\bigotimes_{1} + \bigotimes_{2} + ... + \bigotimes_{n} 1 \text{ W up to max. } 4 \text{ W}$

Article No.: 833.80.901 $\bigotimes_1 + \bigotimes_2 + ... + \bigotimes_n 5 \text{ W up to max. } 10 \text{ W}$

> Colour: Black > Degree of protection: IP20

100-240 V~; 50-60 Hz > Input voltage:

> Constant current: DC 350 mA > Standby power consumption: < 0.5 W

> Supplied with: 1 driver with mounting accessories

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



Note

Connect consumer power of at least 2 W when operating with a Loox switch.

Lead length from driver to switch max. 6 m.

All lights and switches must be connected to the driver first, before connecting the driver to the mains. Any unused slot must have a cable bridge. Bridge connectors are supplied.

Ensure that there is a sufficient air supply and circulation at the mounting location.

Ambient temperature -10°C to +40°C

Country-specific mains leads

> Description: > Supplied with: 1 piece

| Plug design | Cat. No. |
|-------------|------------|
| •• | 833.89.002 |
| > | 833.89.009 |



















Leads and Distributors

Extension leads 12 V / 24 V / 350 mA



| > Supplied with: | 1 lead | | | |
|---------------------------|--------|--------------------|--------------------|--|
| Length (mm) | | Cat. No. (1000) | Cat. No. (2000) | |
| 12 V system, 3.5 A/20 AWG | | 833.73.765 | 833.73.766 | |
| 24 V system, 3.5 A/20 AWG | | 833.77.713 | 833.77.714 | |
| 350 mA system | | 833.80.705 | 833.80.706 | |

•

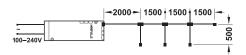
For extending the connection leads of the LED lights. > Lead length from driver to light max. 6 m

4-way extension lead - convenient extension for additional lights



| > Length: | 6,500 mm |
|------------------|----------|
| > Supplied with: | 1 lead |

| Application | Cat. No. |
|---------------------------|------------|
| 12 V system, 3.5 A/20 AWG | 833.74.773 |
| 24 V system, 3.5 A/20 AWG | 833.77.813 |





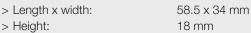
Makes it easier to power several lights positioned one after the other

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

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

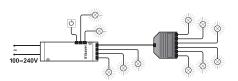


12 V system, 3.5 A/20 AWG 24 V system, 3.5 A/20 AWG



> Supplied with: 1 distributor with 2 m lead

| Application | Cat. No. |
|---------------------------|------------|
| 12 V system, 3.5 A/20 AWG | 833.74.798 |
| 24 V system, 3.5 A/20 AWG | 833.77.724 |



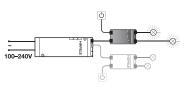


With the 6-way distributor, up to 6 additional lights can be operated from one driver slot.

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



12 V system, 3.5 A/20 AWG 24 V system, 3.5 A/20 AWG



> Length x width: 57 x 34 mm> Height: 18 mm> Power consumption: 0.1 W

> Supplied with: 1 distributor with 200 m lead

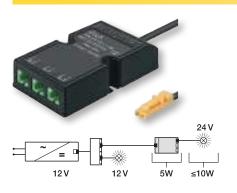
| Application | Wattage | Cat. No. |
|---------------------------|-----------|------------|
| 12 V system, 3.5 A/20 AWG | max. 42 W | 833.74.751 |
| 24 V system, 3.5 A/20 AWG | max. 84 W | 833.77.723 |



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

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

> Dimensions: 61 x 34 x 15 mm (L X W X H) > Wattage: Input 15 W, output 10 W

> Standby power consumption: 0.3 W > Primary side: DC 12 V > Secondary side: DC 24 V

> Number of output ports: 3 connections for 24 V lights 1 converter with 200 mm lead > Supplied with:

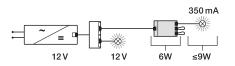
Cat. No. Converter 24 V to 12 V 833.77.934

Loox 12 V driver see page 92

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





9 W per converter.

Maximum possible connected rating of

Connecting 350 mA lights to the 12 V > Application:

> Dimensions: 61 x 34 x 15 mm (L X W X H) > Wattage: Input 15 W, output 9 W

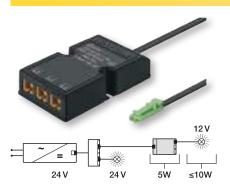
> Standby power consumption: 0.2 W > Primary side: DC 12 V

> 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

Cat. No. Converter 350 mA to 12 V 833.80.912

Loox 12 V driver see page 92

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



Maximum possible connected rating of 10 W per converter.

Connecting 12 V lights to the 24 V > Application:

> Dimensions: 61 x 34 x 15 mm (L X W X H) > Wattage: Input 15 W, output 10 W

> Standby power consumption: 0.3 W > Primary side: DC 24 V > Secondary side: DC 12 V

> Number of output ports: 3 connections for 12 V lights 1 converter with 200 mm lead > Supplied with:

Cat. No. Converter 12 V to 24 V 833.74.947

Loox 24 V driver see page 93

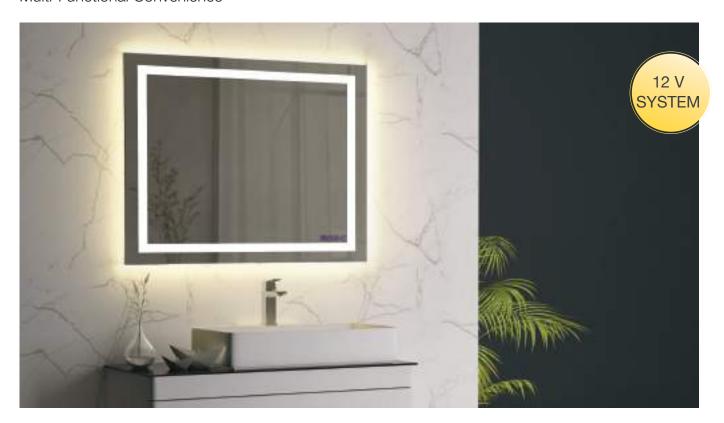






Aquasys Light Mirror

Multi-Functional Convenience





Bluetooth Capable Transducer System

> Plays music from your mobile on the sound system integrated into the mirror



Demister (Mirror Heater)

Prevents the mirror from fogging up



Background Lighting

> Functions as a source of mood and ambient lighting



Front Lighting

> Offers adjustable lighting option from warm white to natural white

AQUASYS



The mirrors from the Aquasys Series are top-of-the-range models and come feature packed with the following:

- > Front Lighting
- > Background Lighting
- > Demister (Mirror heater)
- > Bluetooth Capable Transducer System Application: Bathrooms

AQUASYS X+



The mirrors from the Aquasys X+ Series include mid-range models which have the following features:

- > Front Lighting
- > Background Lighting
- > Demister (Mirror heater) Application: Bathrooms

AQUASYS X





The mirrors from the Aquasys X Series provide economical options for those looking for mirrors with:

- > Front Lighting
- > Background Lighting Application: Dressing Rooms, Living Rooms & Bathrooms







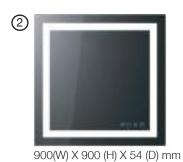




Aquasys Light Mirror

SIZE VARIANTS & PRODUCT SPECIFICATIONS







1200(W) X 900 (H) X 54 (D) mm



600(W) X 900 (H) X 54 (D) mm

Please Note: The size variant can also be installed vertically



900(W) X 1200 (H) X 54 (D) mm

| Article No.: | 983.19.010 (Aquasys) 983.19.110 (Aquasys X+) 983.19.210 (Aquasys X) | 983.19.020 (Aquasys) 983.19.120 (Aquasys X+) 983.19.220 (Aquasys X) | 983.19.030 (Aquasys) 983.19.130 (Aquasys X+) 983.19.230 (Aquasys X) | | | | |
|-------------------------------------|---|---|---|--|--|--|--|
| Dimensions (W x H x D): | 900 x 600 x 54 mm | 900 x 900 x 54 mm | 1200 x 900 x 54 mm | | | | |
| Colour Temperature: | | | | | | | |
| > Front Lighting: | Warm White (2700K) & Natural V | Vhite (4000K) | | | | | |
| > Back Lighting: | Warm White (2700K) | | | | | | |
| Front Lighting Lumen Output: | | | | | | | |
| > Warm White: | 1080 Lm | 1080 Lm | 1560 Lm | | | | |
| > Cool White: | 1230 Lm | 1470 Lm | 1764 Lm | | | | |
| Colour Rendering Index: | > 90 | > 90 | > 90 | | | | |
| Wattage: | 95 W | 102 W | 111 W | | | | |
| Lux @ 70 cm (luminous Flux / Area): | 500 | | | | | | |
| Nominal Voltage: | DC 12 V | | | | | | |
| Input Voltage: | 100-240 V; 50-60 Hz | | | | | | |
| Material: | LED Profile - Aluminium; Rear B | ack Plate - Wood | | | | | |
| Switch Type: | Touch LED Illuminated (Operatio | n - Warm White, Stand-by - Blue | e) | | | | |
| Demister (Mirror Heater): | Standby after 45 minutes (only a | applicable for Aquasys and Aquas | sys X+ Mirrors) | | | | |
| Sound System: | Bluetooth Transducer System; P | assword - 0000 (only applicable | for Aquasys Mirrors) | | | | |
| Bluetooth Frequency: | 2.4 GHz (only applicable for Aqu | asys Mirrors) | | | | | |
| Degree of Protection: | IP 44 (Splash-proof for use in wet rooms) | | | | | | |
| Warranty: | 2 Years | | | | | | |
| Energy Efficiency Class: | A | | | | | | |
| Certification | BIS/ UL / CUL / SAA / CE / TÜV | certified as per EN 1036-1:2007 | against corrosion resistance | | | | |

HXFELE



| Series Name | Article No | Dimensions (W×H×D) mm | Net Weight Kg. | Front Lighting | Background Lighting | Demister Mirror Heater | Bluetooth Capable Transducer System |
|-------------|------------|--------------------------|-------------------|-------------------|------------------------|---------------------------|--|
| Aquasys | 983.19.010 | 900 × 600 × 54 | 10.82 | • | • | • | • |
| Aquasys | 983.19.020 | 900 × 900 × 54 | 14.88 | • | • | • | • |
| Aquasys | 983.19.030 | 1200 × 900× 54 | 19.38 | • | • | • | • |
| Aquasys X+ | 983.19.110 | 900 × 600 × 54 | 9.70 | • | • | • | |
| Aquasys X+ | 983.19.120 | 900 × 900 × 54 | 13.30 | • | • | • | |
| Aquasys X+ | 983.19.130 | 1200 × 900 × 54 | 18.00 | • | • | • | |
| Aquasys X | 983.19.210 | 900 × 600 × 54 | 9.40 | • | • | | |
| Aquasys X | 983.19.220 | 900 × 900 × 54 | 13.00 | • | • | | |
| Aquasys X | 983.19.230 | 1200 × 900 × 54 | 17.50 | • | • | | |

LED strip lights

Technical data, monochrome 5 mm / 8 mm

| | Volt- age | Model Häfele Loox5 | Quantity | Colour tempera- ture | Illuminan Ix Distance | ce | | | | Watt- age | | |
|---|-------------------|--------------------------|----------|----------------------------|-----------------------------|-------|------|--------|---------|--------------|--|--|
| | V | | LEDs/m | K | 250 mm | 500 n | nm | 750 mm | 1000 mm | W/m | | |
| LED strip lights monochrome, 5 mm | | | | | | | | | | | | |
| | 5 12 V | LED | | 2700 | 1860 | | 790 | 440 | 270 | 9.6 | | |
| | age V 5 12V 5 12V | 2061 | 2061 | 2061 | 3000 | 1960 | :X: | 850 | 470 | 290 | 9.6 | |
| | | | 120 | 4000 | 2000 | 7.5 | 860 | 480 | 290 | 9.6 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | |
| | | | | 5000 | 2060 | | 860 | 480 | 290 | 9.6 | | |
| LED strip lights monochrome, 8 mm | | | | | | | | | | | | |
| | 5 12 V | LED | | 2700 | 1050 | | 435 | 240 | 145 | 4.8 | | |
| X B R X B | | 2062 | 60 | 3000 | 1090 | | 455 | 245 | 150 | 4.8 | 33 33 33 33 35 55 55 55 55 55 55 55 55 5 | |
| | | | 00 | 4000 | 1120 | 7 | 460 | 260 | 155 | 4.8 | | |
| LED 2062 | | | | 5000 | 1130 | | 470 | 260 | 160 | 4.8 | | |
| | | LED | | 2700 | 2145 | | 900 | 480 | 300 | 9.6 | | |
| I X I I I I I I I I I I I I I I I I I I | | 2068 | 120 | 3000 | 2250 | :X: | 940 | 505 | 310 | 9.6 | | |
| | | | 120 | 4000 | 2300 | 77 | 950 | 510 | 320 | 9.6 | | |
| LED 2068 | | | | 5000 | 2300 | | 955 | 515 | 320 | 9.6 | | |
| | 5 24 V | LED | | 2700 | 2870 | | 1210 | 665 | 415 | 14.4 | | |
| III III X III X | | 3048 | 120 | 3000 | 3000 | :X: | 1270 | 695 | 430 | 14.4 | | |
| | | | 120 | 4000 | 3100 | XX | 1310 | 715 | 445 | 14.4 | | |
| LED 3048 | | | | 5000 | 3100 | | 1320 | 715 | 450 | 14.4 | | |

Technical data, monochrome constant current 8 mm

| | Volt- age | Model Häfele Loox5 | Quantity | Colour temper- ature | Illuminan Ix Distance | се | | | | Watt- age | |
|--|--------------|--------------------------|----------|----------------------------|-----------------------------|-------|------|--------|---------|---|--|
| | V | | LEDs/m | K | 250 mm | 500 r | nm | 750 mm | 1000 mm | W/m | |
| LED strip light, monochrome 8 mm | | | | | | | | | | | |
| HI THE RESERVE THE | 5 24 V | LED | | 2700 | 4070 | | 1750 | 970 | 600 | 19.2 | |
| X X X X X X X X X X X X X X X X X X X | 02.1 | 3052 | 4.40 | 3000 | 4160 | 34 | 1780 | 990 | 620 | 19.2 | |
| a a and a cecta a an | | | 140 | 4000 | 4220 | >次: | 1800 | 1000 | 625 | 19.2 | |
| LED 3052 | | | | 5000 | 4260 | | 1840 | 1020 | 630 | 19.2 | |
| LED strip lights monochrome, 8 mm | | | | | | | | | | | |
| | | | | 2700 | 1050 | | 435 | 240 | 145 | 4.8 | |
| X S R S R | 5 12 V | LED | 00 | 3000 | 1090 | ١., | 455 | 245 | 150 | 4.8 | |
| | | 2071 | 60 | 4000 | 1120 | -;•(- | 460 | 260 | 155 | 4.8 | |
| LED 2071 | | | | 5000 | 1130 | | 470 | 260 | 160 | 4.8 | |
| | | | | 2700 | 2145 | | 900 | 480 | 300 | 9.6 | |
| a and a series of the series | 5 12 V | LED | 100 | 3000 | 2250 | N/ | 940 | 505 | 310 | 9.6 | |
| | | 2074 | 120 | 4000 | 2300 | ** | 950 | 510 | 320 | 19.2 19.2 19.2 19.2 19.2 4.8 4.8 4.8 4.8 9.6 | |
| LED 2074 | | | | 5000 | 2300 | | 955 | 515 | 320 | 9.6 | |

HAFELE

| Luminous flux | Luminous efficacy | Section length | Colour rendering Index CRI | | Available length | | | • • | | ependent |
|------------------|-------------------|-------------------|----------------------------|----------------|------------------|-----|------|------|-------|----------|
| lm/m | lm/W | mm | R _a | R ₉ | 5 m | m | 20 W | 40 W | 60 W | 90W |
| | | | | | | | | | | |
| 870 | 91 | 25 | >90 | >50 | 833.74.328 | 3.0 | | | | |
| 830 | 97 | 25 | >90 | >50 | 833.74.329 | 3.0 | 2.00 | 4.40 | 6.20 | |
| 955 | 99 | 25 | >90 | >50 | 833.74.330 | 3.0 | | 4.10 | 0.20 | _ |
| 990 | 103 | 25 | >90 | >50 | 833.74.331 | 3.0 | | | | |
| | | | | | | | | | | |
| 440 | 92 | 50 | >90 | >50 | 833.74.336 | 6.0 | | | | |
| 465 | 97 | 50 | >90 | >50 | 833.74.337 | 6.0 | 4.40 | 8.30 | 10.50 | |
| 490 | 102 | 50 | >90 | >50 | 833.74.338 | 6.0 | 4.10 | | 12.50 | _ |
| 495 | 103 | 50 | >90 | >50 | 833.74.339 | 6.0 | | | | |
| 920 | 96 | 25 | >90 | >50 | 833.74.362 | 4.0 | | | | |
| 970 | 101 | 25 | >90 | >50 | 833.74.363 | 4.0 | 0.00 | 4.40 | 0.00 | |
| 1000 | 104 | 25 | >90 | >50 | 833.74.364 | 4.0 | 2.00 | 4.10 | 6.20 | _ |
| 1040 | 108 | 25 | >90 | >50 | 833.74.365 | 4.0 | | | | |
| 1270 | 88 | 50 | >90 | >50 | 833.76.352 | 6.2 | | | | |
| 1305 | 91 | 50 | >90 | >50 | 833.76.353 | 6.2 | | | | |
| 1340 | 93 | 50 | >90 | >50 | 833.76.354 | 6.2 | 1.30 | 2.70 | _ | 6.20 |
| 1430 | 99 | 50 | >90 | >50 | 833.76.355 | 6.2 | | | | |

| Lumino | | Luminous efficacy | Section length | Colour i | | Available length | Max. strip length (visual) | m | ip length | Ŭ | dependent |
|--------|------|-------------------|-------------------|----------------|----------------|------------------|----------------------------------|------|-----------|----------|-----------|
| | lm/m | lm/W | mm | R _a | R ₉ | 5 m | m | 20 W | 40 W | 60 W | 90W |
| | | | | | | | | | | | |
| | 1850 | 96 | 50 | >90 | >50 | 833.76.378 | 4.6 | | | | |
| | 2015 | 105 | 50 | >90 | >50 | 833.76.379 | 4.6 | 4.00 | 0.00 | | 4.00 |
| | 2050 | 107 | 50 | >90 | >50 | 833.76.380 | 4.6 | 1.00 | 2.00 | _ | 4.60 |
| | 2100 | 109 | 50 | >90 | >50 | 833.76.381 | 4.6 | | | | |
| | | | | | | J | | | | | |
| | 440 | 92 | 50 | 90 | >50 | 833.74.300 | 6.0 | | | 30 12.50 | |
| | 465 | 97 | 50 | 90 | >50 | 833.74.301 | 6.0 | | | | |
| | 490 | 102 | 50 | 90 | >50 | 833.74.302 | 6.0 | 4.10 | 8.30 | | - |
| | 495 | 103 | 50 | 90 | >50 | 833.74.303 | 6.0 | | | | |
| | 920 | 96 | 25 | 90 | >50 | 833.74.308 | 3.5 | | | | |
| | 970 | 101 | 25 | 90 | >50 | 833.74.309 | 3.5 | 0.00 | 4.40 | 6.20 | - |
| | 1000 | 104 | 25 | 90 | >50 | 833.74.310 | 3.5 | 2.00 | 4.10 | | |
| | 1040 | 108 | 25 | 90 | >50 | 833.74.311 | 3.5 | | | | |



LED strip lights

Technical data, multi-white 8 mm

| | Voltage | Model Häfele Loox5 | Quantity | Colour temperature | Illuminar Ix Distance | | | Wattage | |
|---|---------|--------------------------|----------|-----------------------|-----------------------------|--------|--------|---------|-----|
| | V | | LEDs/m | K | 250 mm | 500 mm | 750 mm | 1000 mm | W/m |
| LED strip lights multi-white, 8 mm, 3- wire | | | | | | | | | |
| IXII A I I IXII | 5 12 V | LED 2073 | 0.00 | 2700 | 1025 | 425 | 230 | 145 | 4.0 |
| LED 2073 | | | 2 x 60 | 5000 | 1075 | 445 | 245 | 150 | 4.8 |
| e core affigu care affigu care affi | | LED 2076 | 2 x 120 | 2700 | 2040 | 850 | 460 | 280 | 9.6 |
| LED 2076 | | | 2 X 120 | 5000 | 2110 | 875 | 470 | 290 | 9.0 |
| LED strip lights, RGB, 12 mm | | | | | | | | | |
| LED 2016 | 12 V | LED 2016 | 30 | RGB | - | - | - | - | 7.1 |

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| Luminous flux | Luminous efficacy | Section length | index CRI | | Weight energy consumption | Length of contact surface P | Available length | Max. strip length (visual) | Max. stripent on the Loc | attage-de | pend- | |
|------------------|----------------------|-------------------|----------------|----------------|---------------------------------|---|------------------|----------------------------------|-----------------------------|-----------|-------|-----|
| lm/m | lm/W | mm | R _a | R ₉ | kwh/1000 h | mm | 5 m | m | 20 W | 40 W | 60 W | 90W |
| | | | | | | | | | | | | |
| 425 | 88 | 50 | >90 | >50 | 5.28 | 4 | 833.74.352 | 4.5 | 4.10 | 0.00 | 10.50 | _ |
| 465 | 96 | | | | | | | | | 8.30 | 12.50 | |
| 875 | 91 | 25 | - 00 | . 50 | 10.56 | 3.5 | 833.74.318 | 3 | 2.00 | 4.10 | 6.20 | _ |
| 940 | 97 | | >90 | >50 | | | | | | 4.10 | 6.20 | |
| | | | | | | | | | | | | |
| 1050 | 29 | 100 | - | - | - | - | 833.73.450 | 3.4 | 2.81 | 5.63 | 8.45 | - |





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 : The combination of direct, flat light for a : The interaction of areas of light and pleasant illumination of the important work perfect illumination of the dining table, horizons created by light creates a spaces and ensures the proper reflection * supplemented with indirect, warm effect * comfortable and cozy atmosphere. of the colour of food and products.



Eating.

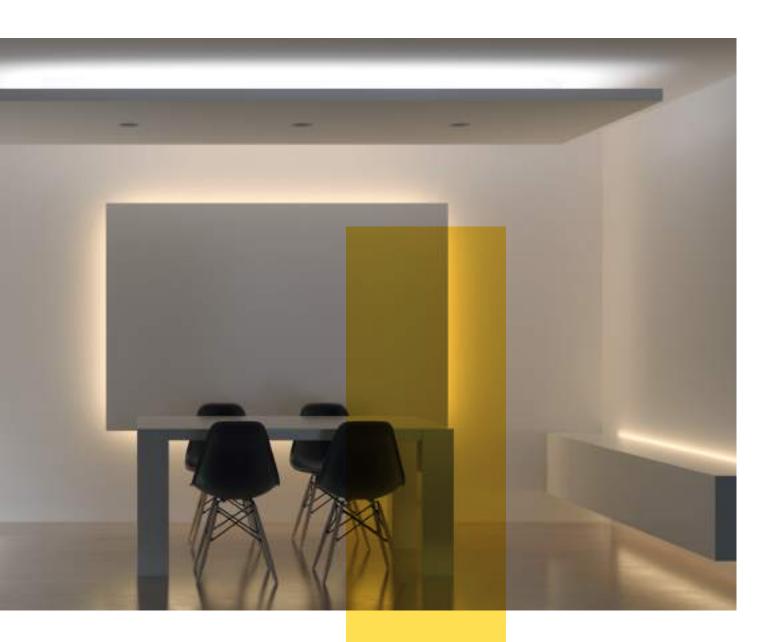
lights on ceilings and walls creates an atmospheric ambience.



Relaxation.



HÄFELE



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.

depends on the location of the desk as well as the influx of used as indirect lighting in the furniture. Ambient light provides daylight. When work is done on computer or tablet a glare-free eless illumination and serves to create an appealing environment. light source is required. Since the screen is the work area, a • The light source is often hidden, for example it can be embedded backlight can be sufficient. However, drawing or writing require a well lit work surface.



Ambient light.

For example, the lighting need in a home office can differ and . To create an atmospheric ambience, the room light can also be • 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.





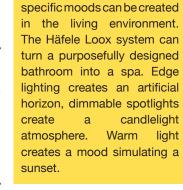
Staging.

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.



With a smart lighting plan



Setting accents.

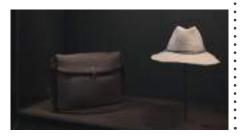
The Loox lighting system offers many possibilities to set accents in a room. With the appropriate light composition corners, edges and surfaces can be dramatized.

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: like the cool fresh light of an early morning. sources are tested and measured based on : By comparison, strong red and yellowthe 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 coloured light has a relaxing effect and evokes a state of rest. Just like the warm glow in the late afternoon or a candle.





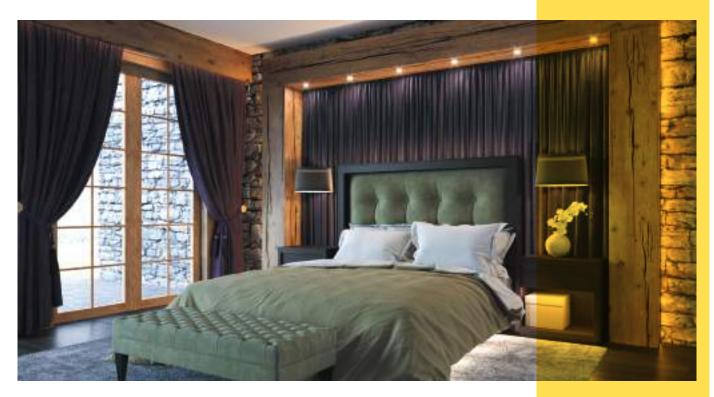
Consistent colour quality and performance.

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 after market 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 multifunctional rooms. Depending on the application remote controls can be used for easy control of several light sources, from multiwhite lights to coloured RGB lights.



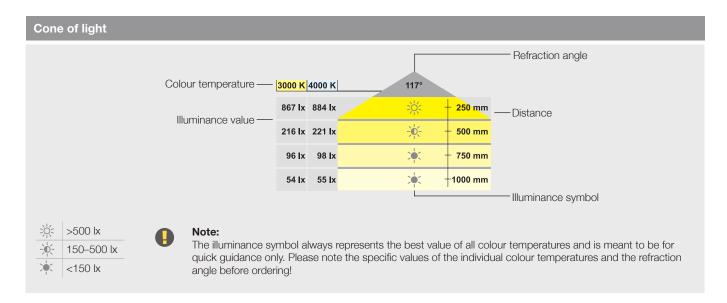
Control light (and more) centrally.

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



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®: Industry 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



Bureau of Indian Standards (BIS) Mandatory Certification of Quality Assurance



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 q ≥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

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 compo-

Energy efficiency class

The energy efficiency class provides information about the relevant energy consumption.

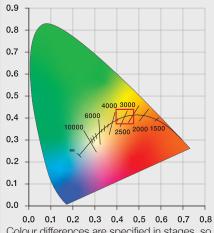
Lamps and lights are categorised in classes E to A++. LED lights achieve the highest classes A to A++.

nents (controls, devices) form a joint network, which is ideal for controlling lights. Häfele Connect Mesh uses

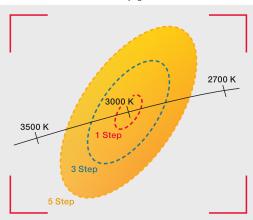
Colour temperature and light colour

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



this technology.



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.



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. Life time installa-Indoor use **Annual operating** Replacement rate time (EN 15193) tion Hours hours Years Office 2.500 20 50.000 25 Education 2.000 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 (Im/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 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

The light colour of shades of white can be changed as required with Häfele Connect. BLE, e.g. from warm

RGB is the abbreviation for red, green and blue. In combination with Häfele Connect BLE, almost any colour

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

Ratio of transmitted light to incidental light. An ideal transparent body would have a transmittance of 100 %.

strip lights with constant current technology (LED 3052) always have the same brightness.

combination can be created from the three primary colours.

white to cool white.

www.hafele.com

Technical terms

Multi-white

Transmittance

RoHS - Lead in Loox products

RGB

Loox / 121



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 mal- functions be avoided (q 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 follow | ving current carry | ving capacity and | l 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 | |
| Can an LED flexible strip light | The type of cable is imprinted on the coating of the cable. You however the confine class increases the colour variations (hipping) up to four times and minimal colour. | | | | | |
| 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 86). | | | | | |
| 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

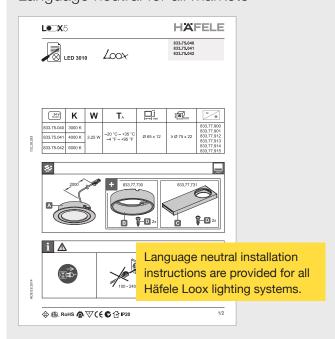
Language neutral for all markets

Language-independent videos are available for the Loox radio remote controls and other selected products at **www.hafele.com** next to the item.



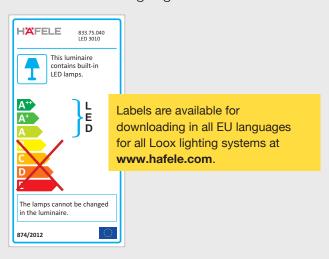
Installation instructions

Language neutral for all markets



Energy efficiency class

Label in all EU languages









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