

HÄFELE

Lighting



The Catalogue.

2026

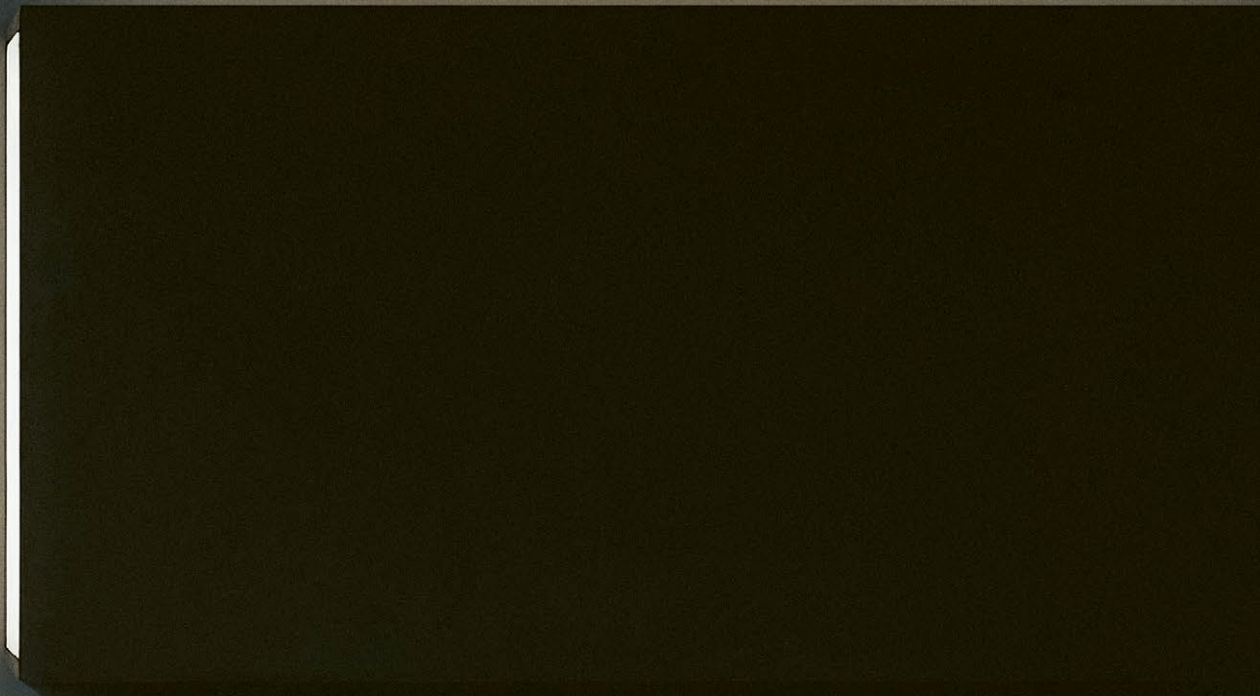






“Furniture – often the cooler type of lighting.”

Jörg Schmid, Managing Director Häfele Technology Solutions



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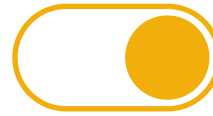
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Light opens up space.



More than a hundred years ago, we started out on a path which led us quite literally to light. The starting point was furniture, which is still an essential part of our thinking. But over the course of the decades, by working together with furniture manufacturers, architects, designers and lighting planners, we have discovered that furniture as an integral part of the room can be more than just furnishings – namely



functional and atmospheric influencers in the room. For this reason, we dealt with light at a very early stage, with light as an immaterial furniture fitting, so to speak. From “Light in furniture”, the path organically continued to “Light in rooms” – to the only light brand to date that consistently considers both dimensions as a whole, including an integrated connectivity platform.

We are constantly collaborating with our light planners and designers and our product and software developers to support our customers and partners in creating rooms with added value. More functional, more intelligent, more atmospheric and more organised. In accordance with our purpose “Maximising the value of space. Together.”.

We put people, and how they live, at the heart of everything we do.

A room, and who uses that room, determines the lighting functionality that is needed. What happens during the day, what happens in the evening and what happens at night? Should the room have a cosy look, or a functional look? Or both? Should the focus be on the family portrait or the dining table? It's not about the lights themselves, but the effect the lighting has on the space and how different light sources work together to meet a common goal. At Häfele Lighting, we believe that lighting plays an important role in shaping a space, both inside and outside the furniture. If you consider furniture or installations to be a light source of a room, this enables you to explore other ways to create sophisticated, coordinated lighting solutions that go beyond everyday approaches. This becomes even more adaptable when you not only think about furniture and room lighting together, but are also able to control them together; with individually configured lighting scenes that transform the room as needed.

We developed the Häfele Connect for this purpose, enabling furniture and rooms to communicate with each other easily, for the benefit of those who live there.

Time of day

Architecture

Furnishings





“Good light is essential for the overall experience of a room.”

Wilfried Kurz, Lighting Application Designer

The dialogue between furniture and room in **four categories.**

How we think about lighting.

At Häfele Lighting, we don't simply understand light to be a function – we think about light as a design element in the constant dialogue between the furniture and the room: as an integral, emotional interplay of furniture, fixtures, rooms and light – for rooms that are not just functional but also noticeably vibrant.



From the **furniture** for the **furniture.**

The light source is located inside the furniture and highlights individual functional areas in or on the furniture.

From the **furniture** for the **room**.

The furniture and the fixtures act as a light source for the lighting of the room.



From the **room** for the **furniture**.

Room light highlights individual furniture and/or stages materials, surfaces or individual details.



From the **room** for the **room**.

Light sources in the room highlight individual areas, or illuminate individual objects that are on the wall or freestanding in the room.



Kitchen

Functional light areas for preparing meals, or a festive mood for the covered table; good light in the kitchen brings together requirements that are completely different in an optimum way.

And if the cosy get-together turns into a stand-up party next to the stove, the room-encompassing control flexibility effortlessly creates the right ambience.



Dressing room

Uniform, shadow-free lighting is essential in a dressing room for realistic perception of colours and materials.

Accent light on shelves and in cabinets provides clarity, and leads to a functional and stylish room experience.



Shop

In the shop, light sets the scene for products in a targeted way, directs the view and creates emotional purchasing incentive.

Flexible light design makes it possible to atmospherically distinguish between different areas and subject matters.



Hotel

Light in the hotel makes a decisive contribution to the feel-good atmosphere – from the inviting lobby to the relaxing room ambience.

Coordinated light scenarios make it possible for guests to intuitively switch between activity and relaxation, and experience their stay in an individual way.

From furniture to room. Light as a connecting element.



Häfele Lighting solutions can be found internationally in many exciting projects – be it in healthcare, hotels, shops, offices or living spaces. Discover inspirational lighting concepts that create atmosphere and breathe life into rooms.



Showtime.



Project: MM:NT Adina Berlin
Builder: Adina Hotels Europe
Design planning: ACME (London, GB), BWM (Vienna, AUT), Häfele Hospitality Solutions (Nagold, GER).





Light is more than just lighting – it is a design tool, an atmosphere and an architectural statement at the same time.



**Project: Building at Lake Lucerne, Switzerland
Builder: Private
Planning: architektur³ ag (Kerns, SUI)**



**Project: The Moving Tree, Egger Forum, St. Johann, Austria
Builder: Fritz Egger GmbH & Co. OG (St. Johann in Tyrol, AUT)
Design: Häfele Hospitality Solutions (Nagold, GER).**



Project: Villa at Lake Starnberg, Germany
Builder: Private
Architecture: Alexandra Meyer Architect's Office (Starnberg, GER)
Specialist planning and implementation of kitchens and interior fittings: Pirkelmann + Schmidt Furniture and Kitchen Manufacturing (Ismaning, GER)

Project: AIVA – Institute for Vitality & Aesthetics, Berlin
Builder: DZG (German Center for Geriatrics) Berlin Betriebs GmbH & Co. KG (Berlin, GER)
Planning: Kappler Med+Org GmbH | Kappler GmbH & Co. KG (Birkenfeld, GER)





Project: Jopa Joma Design Apartments, Kenzingen
Investor/builder: Christoph and Stephan Schmidt (Kenzingen, GER)
Architecture: Schmidt Architects (Kenzingen, GER)



Project: Kerner Jewellers, Ulm
Builder: Julius Kerner GmbH (Ulm, GER)
Planning: HM Ideenhaus GbR (Bremen, GER)
Interior design: Oltmanns Innenausbau GmbH (Edewecht, GER)



Inspired by our customers: One system, three product ranges.

Product range.

Pro

Ideal for demanding furniture and room stagings in the premium segment and long-term operation.

- Premium quality
- High-end lighting technology
- Professional networking for the most stringent demands

Plus

Ideal for individual furniture solutions, the kitchen industry and extensions in the room.

- Comprehensive Plus product range
- High quality
- Attractive price-performance ratio
- Convenient control facilities

Pure

Ideal for small lighting installations in industrial environments.

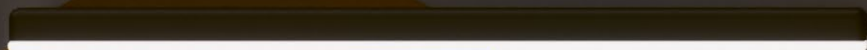
- Compact Pure product range
- Low-cost entry-level solution in the industrial environment.

Lighting.

- Configurable, design-oriented linear lights
- High-efficiency brand LEDs
- Almost loss-free light output over long distances of up to 8 m
- Very high colour rendering (CRI > 92)
- Minimum life time 50,000 hrs.

- Configurable linear lights
- Brand LEDs
- Equal light distribution at medium distances of up to 5 m
- High colour rendering (CRI > 90)
- Minimum life time 30,000 hrs.

- For simple applications with short distances of up to 2 m
- Colour rendering (CRI > 80)
- Minimum life time 15,000 hrs.



Every project has different priorities in its requirements, e.g. economical, technical or planning. But quality and safety must always be reliably guaranteed – with consistent ease of installation. This is why we have further developed our system into three product ranges which are oriented to our customers' practices. From the smaller, less complex basic product range (Pure) to the ambitious solution with high-end technology (Pro).

The Plus product range is ideally configured for the majority of lighting tasks in terms of light quality and also planning and networking options – and the way into the room is open at all times with Plus. All three product ranges are internationally certified, and can also be combined with each other using the uniform plug system. The perfect system for any task.

Control.

Supply.

Cordless

- Input voltage 100–240 V
- Output power up to 240 W
- Minimum life time 50,000 hrs.
- Suitable for 24/7 operation

- Input voltage 100–240 V
- Output power up to 120 W
- Minimum life time 30,000 hrs.

Wired

- Input voltage 220–240 V
- Output power up to 60 W
- Minimum life time 15,000 hrs.



Lighting.

Control.

Easy networking and installation is more intelligent: the Plug&Play system.

Supply.



Used hundreds of thousands of times all over the world and continuously further developed: The Häfele Lighting LED system. Its success lies in its simplicity and its intuitive application. The main components can be quickly and easily connected using a simple

plug-in system, and at the same time, almost any light planning idea can be efficiently implemented using the flexible and logically designed modular lighting system. For furniture. For the room. Or for both together.

OneCable. Turning a philosophy into a product. The light for furniture. And rooms.

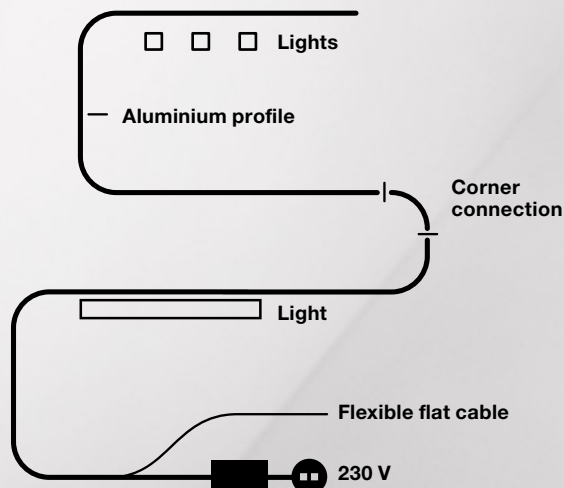
“From the furniture to the room. OneCable now also makes this path easier for cabinet makers and joiners.”

Simon Frech,
Head of Product Management

OneCable, bringing light from the furniture out into the room. Freely plannable and easy to install through a Plug&Play system, working with Häfele Connect Mesh is child's play.

With a multitude of different lights that can be clipped in anywhere, OneCable works independently of cable outlets and offers a wide range of options for individual lighting design, from illuminating kitchen islands, to zoning, putting focus on materials, surfaces or favourite objects.

Furniture can be used to take light out of its traditional comfort zone and branch out into the room. The same system in a different role: as a room designer or congenial dialogue partner, using light both inside and outside of the furniture.





Häfele Connect.

Control light to suit your individual needs.



In order for lights to communicate with each other independently, they must be able to detach themselves from fixed cable connections. With Häfele Connect, this works via a wireless connection via Bluetooth®. All of the lights which are equipped with an appropriate chip – or also other devices in the room – form a network that is controllable from a central location. Using a wall-mounted push button, remote control or app.

Everything is interconnected. This makes it very easy to configure and call up individual lighting scenes. And above all: everything can be easily changed so that the light can be adapted to the lives of the residents. Or if hotel rooms and shops are to be redesigned without complex installations affecting the schedule. Häfele Connect is open for integration in third-party systems.



The world might be getting smarter, but so are we!

Häfele Technology Solutions, the in-house start-up.


Both our work and home lives are becoming increasingly digital. With this in mind, we started moving from hardware to software several years ago.

With a professional team of developers, start-up spirit and the same development philosophy as our lighting systems, 'simple, flexible and open' – which we applied to the Häfele Lighting Connect Mesh connectivity platform – we developed a step-by-step model that can grow organically, on a shared technological basis. From simple push-button operation to professional integration into all relevant smart home systems: the Häfele Lighting platform is adaptable.

It's future-proof in two ways: the user remains flexible and the technology is always up to date. This way, our customers are always connected to the future.



03
Smart Home.
Connection to
Smart Home systems.



01
Easy Pairing.
All of the lights are connected
at the push of a button,
making them controllable
from a central location.



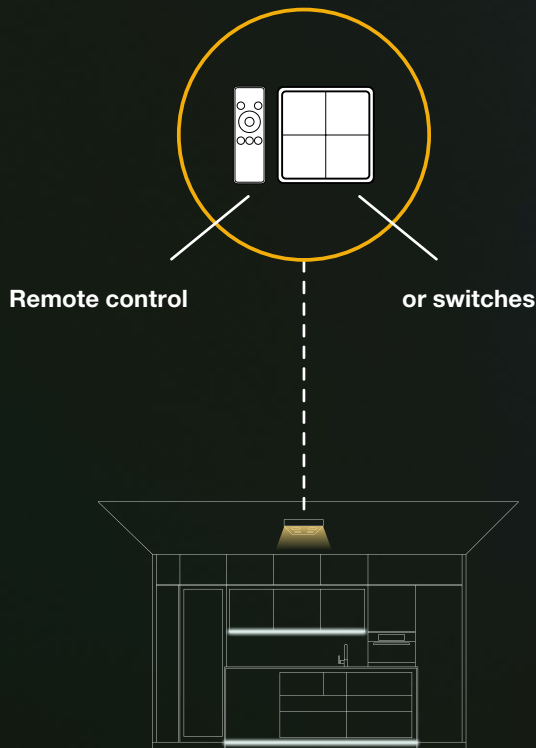
“Our goal is to have an open digital ecosystem, especially for everything that lies ahead.”

Thomas Kubitza,
Head of Product Development

04
Professional.
Networking with external building control systems.

02
Connect Mesh App.
Different lighting scenes, groups and time controls can be set up and controlled with the app.

Growing organically. Häfele Connect.



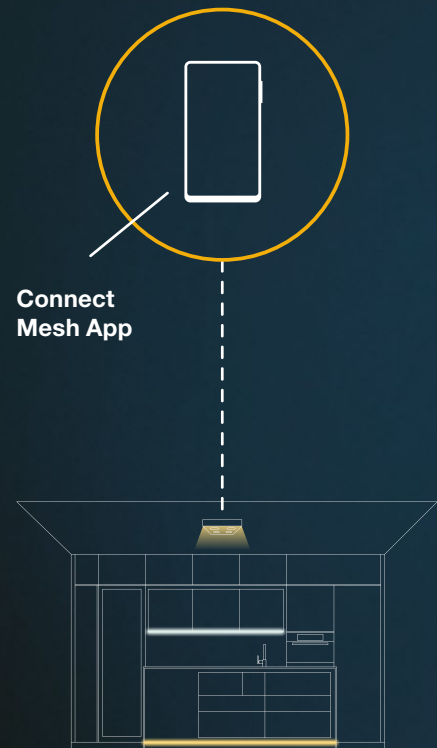
Level

01

EasyPairing

EasyPairing allows quick and easy commissioning of a small mesh network without an app. A push of a button is sufficient to connect all devices in a group.

- Wireless mesh network
- All mesh devices are compatible



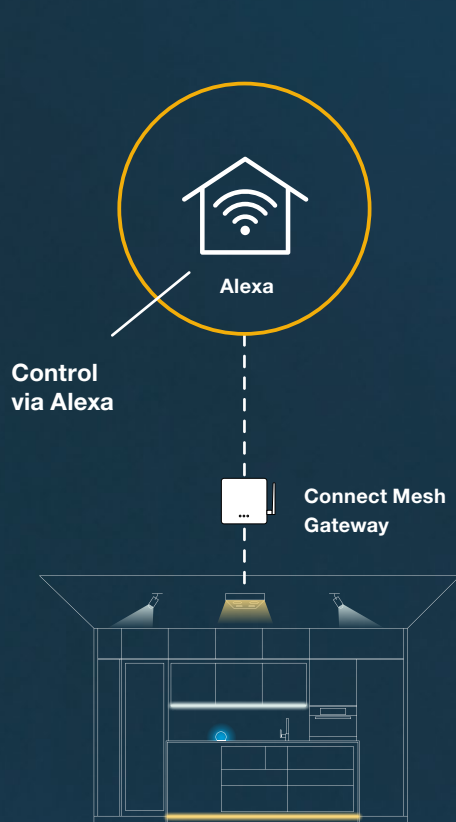
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02

Connect Mesh App

The Connect Mesh app makes it easy to set up, customise and intuitively control small and medium-sized mesh networks. Furthermore, it also provides convenience functions such as scenes and time control, and supports integration with mesh-compatible devices from other manufacturers – including EnOcean, JUNG HOME and Steinel Connect.

- Individual groups and scenes
- Time control
- Combinable with Mesh Friends
- Wireless mesh network
- All mesh devices are compatible



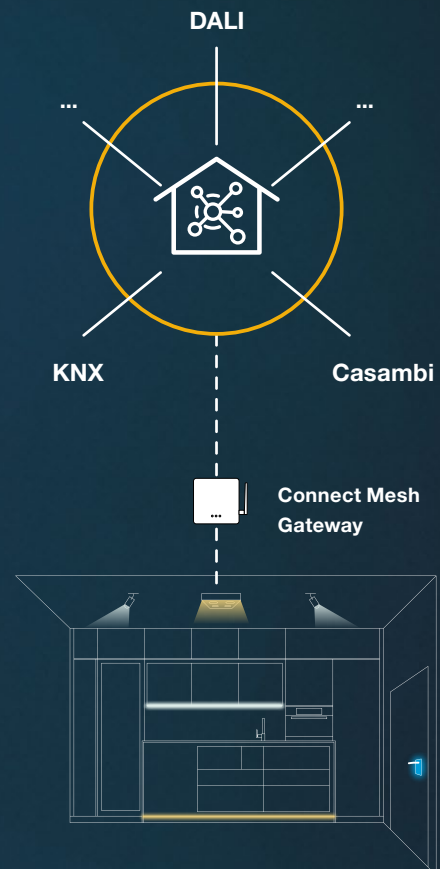
Level

03

Smart Home

Voice control and integration with all Amazon Echo compatible Smart Home devices can be set up quickly and easily with the Connect Gateway. A cloud API is available for further connections. MATTER compatibility will also provide a broad connection to other Smart Home systems.

- Voice control via Amazon Alexa
- Combinable with all Alexa compatible Smart Home devices
- Cloud API for connections
- Individual groups and scenes
- Time control
- Combinable with Mesh Friends
- Wireless mesh network
- All mesh devices are compatible



Level

04

Professional

An open approach via MQTT and Node-RED makes it possible to integrate Connect Mesh seamlessly with any third-party systems such as with KNX, Casambi, DALI and Häfele Dialock. Connect Gateway allows for both local and cloud-based integration.

- Open approach to the integration of any third-party systems
- Connectable to KNX, Casambi, DALI, Häfele Dialock
- Voice control via Amazon Alexa
- Cloud API for connections
- Individual groups and scenes
- Time control
- Combinable with Mesh Friends
- Wireless mesh network
- All mesh devices are compatible

Experiencing light – deepening knowledge – planning light.

HAWEILE Lighting

The Catalogue.

“Using light, we create an atmosphere that is tailored to the use of the room.”

**Frank Schlosser,
Head of Light Planning**

Using light to highlight materials and surfaces is at the heart of our design approach. From defining the type of lighting required, to choosing the relevant lighting technology and selecting the product, we work with our customers to plan the appropriate lighting for the desired room effect. We help ensure that rooms have the right atmosphere, presenting the solutions for complex lighting scenes, with the simplest control option. Our lighting experts provide exciting answers to many questions about the basics of lighting planning. So work with us to get some inspiration, and re-discover the effect of good lighting.



Examples of lighting design.



Häfele Lighting is the first and to date only brand to combine the concepts of “light in furniture” and “light in rooms” into an integrated and networked holistic experience.

In doing so, we remove the boundaries between furniture lighting and room lighting, and show how entire rooms can also be illuminated from the furniture.

Intelligent, integrated and networked lighting solutions are optimally illuminated and atmospherically upgraded for every room – in line with our purpose of: “Maximising the value of space. Together.”

Four types of lighting for interior lighting design.

We show an example of the basic approach in the implementation of light solutions on the example of a kitchen-living room. The combination of the criteria leads to a coherent result.



Result: Activities can be performed in an optimum way.

01 Task lighting

Which activities require good visual conditions? These should be supported by dedicated lighting with an increased light level.

- Spotlights above the kitchen island.
- Work surface lighting for the alcove in the kitchenette.



Result: The light creates experiences.

02 Accent lighting

Do certain light applications impress with their emotional effect? The lights that are used are a purely subjective decision of the users:

- Linear lights or accentuating spotlights in the furniture interior.
- Illuminated recessed grip profiles and strips.
- Light covers in furniture or in the room.
- Emphasis on high-quality finishes.
- Everything you want to show! Large and small collectibles, images and sculptures in the room, or even a plant?
- Aesthetically designed lights.



03 Ambient lighting

Is there sufficient light in furniture and light in rooms after selecting task and accent lighting? Other light sources can complement the concept:

- In the classic scenario, ceiling lights are positioned in order to provide orientation in the room if there is a lack of daylight. In this case, wall and ceiling floodlights provide the necessary brightness in the cabinets and in the room.
- If the basic lighting that is required during the day provides little atmosphere in the evening, additional cabinet and drawer lighting can provide sufficient visual conditions.

Result: The room becomes an experience.

04 Dynamically controlled lighting



Have the first three types of light for task lighting, decorative accentuation and spatial ambient lighting been determined? The Häfele Connect system now coordinates the individual lights as required:

- Detailed pre-planning is not essential.
- Usage scenarios arise in a playful way by means of intuitive usability.
- Scenes, dimming and colour temperature can be adapted directly and individually.



The interaction of the four types of lighting creates a coherent and individual lighting atmosphere for the room.

Kitchen.

Functional light areas for preparing meals, or a festive mood for the covered table; good light in the kitchen brings together requirements that are completely different in an optimum way. And if the cosy get-together turns into a stand-up party next to the stove, the room-encompassing control flexibility effortlessly creates the right ambience.



Task lighting

- Linear lights under the wall unit to light the countertop
- OneCable spotlights above the hob on the island
- OneCable suspended luminaire above the island's dining area

Accent lighting

- Linear light below the wall units
- OneCable spotlight for highlighting wall art
- Illuminated recessed grip profiles
- Illuminated plinth lighting

Ambient lighting

- OneCable wallwasher for the kitchen cabinetry

Dynamic lighting

- Scenes for different times of day
- Preset scenes for recurring routines



Dressing room.

Uniform, shadow-free lighting is essential in a dressing room for realistic perception of colours and materials. Light on shelves and cabinets creates clarity and supports a stylish, high-quality room experience.



Task lighting

- Horizontal and vertical linear lights in the interior of the cabinet
- R One Spot for the island
- R One Asymmetric for additional interior cabinet lighting and trying on
- Mirror with direct beam proportion

Accent lighting

- Mirror with indirect beam proportion
- Illuminated plinth

Ambient lighting

- R One Asymmetric for cabinet fronts

Dynamic lighting

- Scenes for different times of day
- Scenes for trying on and make-up



Hotel.

Good light in the hotel makes a decisive contribution to the feel-good atmosphere – from the inviting lobby to the relaxing room ambience. Coordinated light scenarios make it possible for guests to intuitively switch between activity and relaxation, and experience their stay in an individual way.



Task lighting

- Bedside lights
- Linear light in the pantry kitchen
- Reading light on the bracket

Accent lighting

- Cove lighting surrounding the television

Ambient lighting

- Ceiling uplighter integrated into the wall panel
- R One Asymmetrical in the entrance area
- Linear light under the nightstand for orientation

Dynamic lighting

- Scenes for Welcome, Entertain, Relax, Vitality, etc.



Shop.

In the shop, light puts the focus on products in a targeted way, directs the view and creates emotional purchasing motivation. Flexible light design makes it possible to atmospherically distinguish between different areas and subject matters.



Task lighting

- Q Four TT in the conductor rail for flexible zoning
- Linear lights in the shelves
- Display cabinet spotlight for the exhibits

Accent lighting

- Linear lighting within wall panelling
- Cove lighting integrated into the ceiling

Ambient lighting

- R One spotlights integrated into Disc'n Dots acoustic panels
- R One Asymmetric for wall panelling
- Linear lights on the conductor rails for ceiling illumination

Dynamic lighting

- Scene for regular sale
- Scenes for presentations, events, etc.
- Scene for night presentation

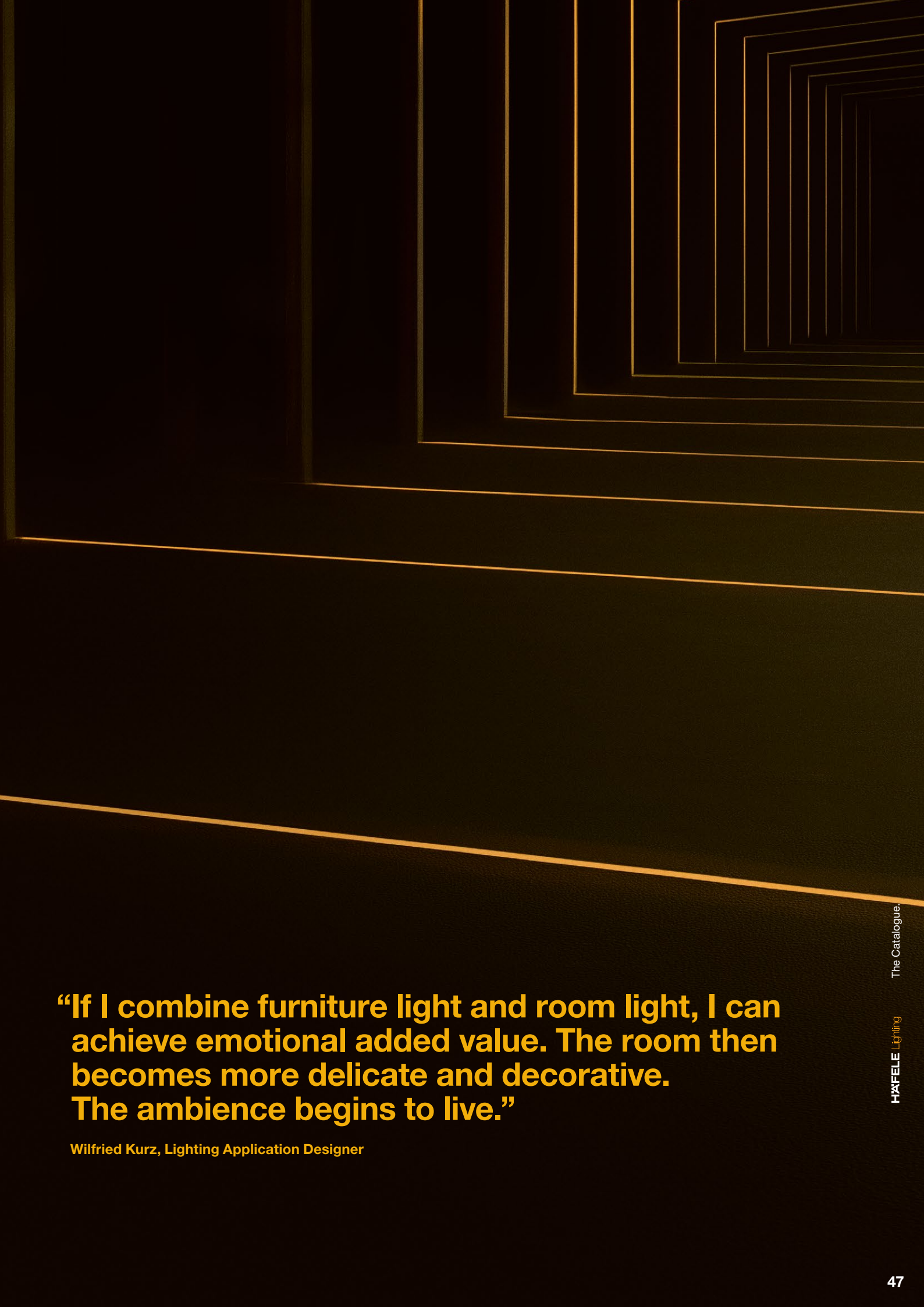


Häfele Lighting.

“Making amazingly simple creative light solutions behind the scenes possible. This is the idea of our lighting system.”

Simon Frech,
Head of Product Management





“If I combine furniture light and room light, I can achieve emotional added value. The room then becomes more delicate and decorative. The ambience begins to live.”

Wilfried Kurz, Lighting Application Designer

Häfele Lighting.

Developed with pride, supported by services, ready to experience first-hand.

In-house development and solution expertise.

Häfele Lighting has its own team of developers. Häfele Technology Solutions brings all of this together as the Häfele Group's specialist subsidiary for lighting and connectivity.

Together with its customers, the interdisciplinary team designs innovative, networked lighting systems for work and living environments. Häfele Technology Solutions optimises the way in which interiors are conceived, used and experienced – from the initial idea to the final application.

With this technological expertise, Häfele Lighting is now an established manufacturer and valuable development partner for the furniture and kitchen industry as well as planners, architects and designers.





Four Häfele Plus services.

Häfele Lighting offers you a comprehensive range of services. The prime objective of our Plus services is to relieve the strain on you and therefore further increase your productivity and efficiency.

- **Service+ Knowledge**
Inspiration and expertise
- **Service+ Planning**
Tools and support
- **Service+ Customised**
Customised and made-to-measure
- **Service+ Assist**
Professional and personalised

Experience light - as this is the only way to bring together functionality, emotion, atmosphere and spatial effects.



Nagold.

The Häfele brand world in Nagold demonstrates across 1,000 m² how networked lighting makes living spaces smarter – embedded in innovative, built-in studies for the Micro Living and Smart Home mega trends.



Stuttgart.

The Blackbox is an ideas workshop in which a new and holistic approach is taken to designing, planning and implementing furniture, light, space and connectivity. The lighting is staged and takes effect much like on a theatre stage.



Hamburg.

Immerse yourself in the world of light and connectivity in the Häfele showroom in Kaltenkirchen near Hamburg – discover how intelligent technology makes rooms vibrant and future-proof.



Mobile.

We'll bring the Häfele Lighting Mobile to you. Experience the fundamentals of what Häfele Lighting has to offer for your projects in a compact space. From the furniture to the room.

Lighting.

HAFELE Lighting

The Catalogue.



The products.

Linear light **62**

- LED strip lights **62**
- Profiles **92**

Point light/surface light **136**

- Furniture lights **136**
- Ceiling lights, wall lights **170**



The new **24 V** LED strip light product range.



HAFELE Lighting

The Catalogue.





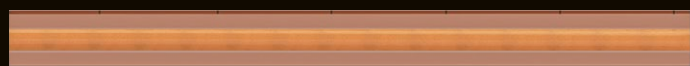
Häfele Lighting LED strip lights provide flexible lighting solutions for numerous lighting tasks: as accent lighting for atmospheric staging, as task lighting for targeted light, e.g. in the kitchen, and as ambient lighting for uniform illumination of furniture and rooms.

The **24 V technology** makes networking of the light in furniture and in the room easy and convenient – for a coherent, well thought-out lighting concept from a single source.

The advantages of 24 V:

- Longer strip light lengths possible
- More power via a driver (up to 240 W)
- More power via a slot (up to 120 W)
- More power with LED strip lights (up to 19.2 W/m)
- Room light and furniture light can be combined (based on 24 V technology)
- Future-proof
- Cost-neutral
- Aesthetically designed lights

COB LED Strip lights



LED 3103
LED 3104
LED 3105

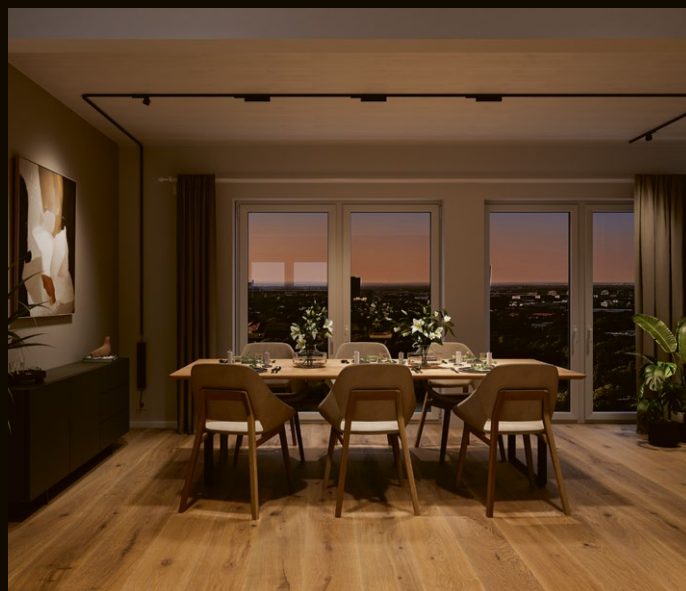
OneCable. The minimalist lighting system.



HAFELE Lighting

The Catalogue.



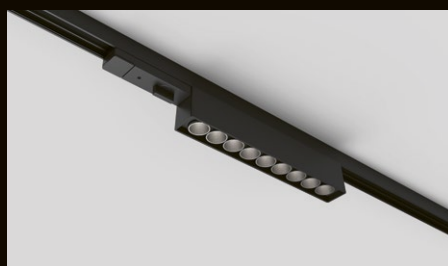


The OneCable 24 V light system provides extremely flexible possibilities for furniture and room lighting. Thanks to its simple installation characteristics, it can be easily adapted to individual room settings. In white or black, **OneCable** can be used as an effective accent in the room design.

With a simple modular system of components, you can flexibly place light wherever you need it. Give it a try.



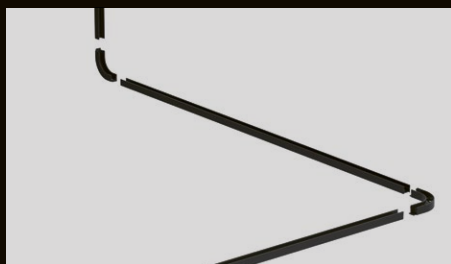
Spot 4 TT, tunable white



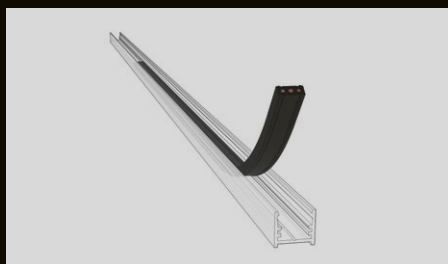
Spot 9 linear, tunable white



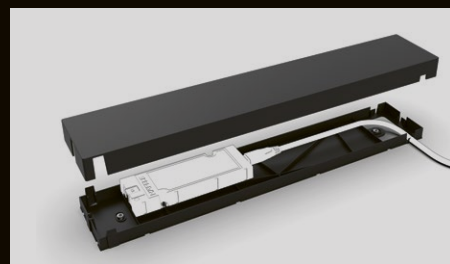
Connection for LED strip lights 8 mm, 3-pin, tunable white



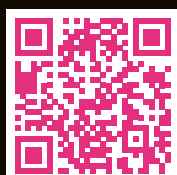
Cable guide



Power supply



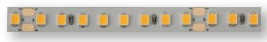
Power supply



Further information and
ordering here:
www.haefele.de/onecable

Linear light

LED strip Pro



LED 3142/3145/3148
8 mm
Page 76



LED 3146
8 mm
Page 78



LED 3044/3047/3049
8 mm
Page 80



LED 3080
10 mm
Page 82



Linear luminaires Pro



LED 3110
Page 68



LED 3053
Page 72



LED 3054
Page 74



LED strip Plus



LED 3071/3072/3073/
3074/3076
8 mm
Page 84



LED 3057
3 x 6 mm, Silicone
Page 86



LED 3084/3085
6.5 x 6 mm, Silicone
Page 66



LED 3099/3199
4 x 10 mm, Silicone
Page 88



LED 3103/3104/3105
8 mm, COB
Page 62



LED 3178/3179/3180
8 mm
Page 90



LED 3106/3107/3108
8 mm, COB
Page 64



Monochrome

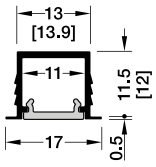
Tunable white, requires components with 2-wire technology (e.g. distributors, leads)

Tunable white, requires components with 3-wire technology (e.g. distributors, leads)

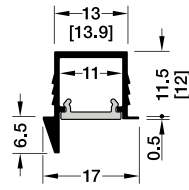
RGB

Profile Pro

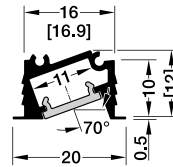
For recess mounting



1103
Page 92

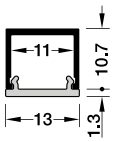


1105
Page 112

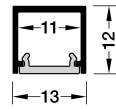


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Page 114

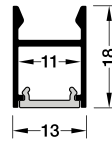
For under mounting



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2102
Page 96



2103
Page 116

Profile accessories



Inline switches
Page 118



Diffuser
Page 120

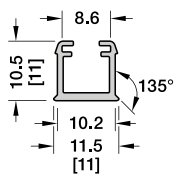
Linear light

Profile Plus

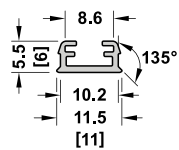
For recess mounting

HAFELE Lighting

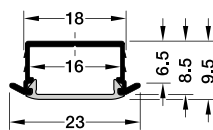
The Catalogue



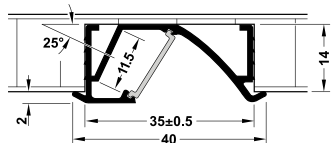
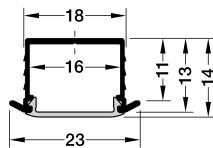
1101
Page 98



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Page 100

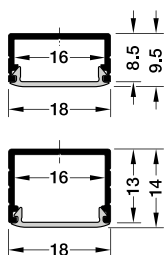


1190/1191
Page 102

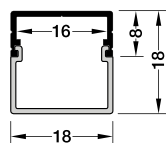


1193
Page 122

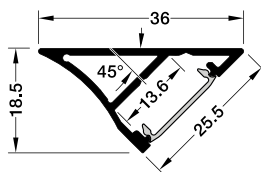
For under mounting



2190/2191
Page 104

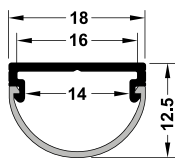


2192
Page 124

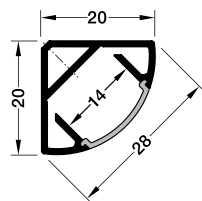


2193
Page 126

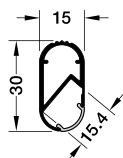
Special profiles



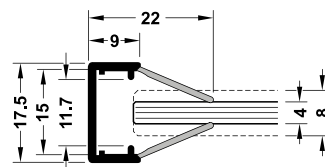
Drawer profile 2194
Page 128



Corner profile 2195
Page 106

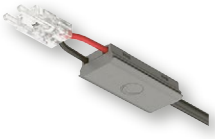


Wardrobe rail profile 5105
Page 108



Glass edge profile 5108
Page 130

Profile accessories



Inline switches
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Diffuser
Page 134



Cable channel
Page 110



Cooling strip
Page 110



Corner guidance
Page 110

Spot light/Area light

Furniture light Pro



LED 3090
Page 140



LED 3008
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LED 3092/3086/
3091
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Einbau-, Unterbaugehäuse
Page 156



LED 3095/3096
Page 142



LED 3097/3098
Page 144



LED 3111
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LED 3033
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LED 3197
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Furniture light Plus



LED 3094
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LED 3112/
3113/3114
Page 138



LED 3035/3036
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LED 3067/3066
Page 162



LED 3101/3102
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LED 3100
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LED 3109
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LED 3034
Page 150



Monochrome

Tunable white, requires components with 2-wire technology (e.g. distributors, leads)

Tunable white, requires components with 3-wire technology (e.g. distributors, leads)

Ceiling, wall light Plus



OneCable
Page 170



R One
Page 180



Ceiling, wall light Pro



Q Four Connect
Page 182



Modul Q Connect
Page 186



Modul Q
Page 196



Cubic Connect
Page 208



Cubic
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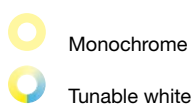
Zen Connect
Page 224



Zen
Page 226



Lighting Pad Lounge
Page 228



LED 3103/LED 3104/LED 3105

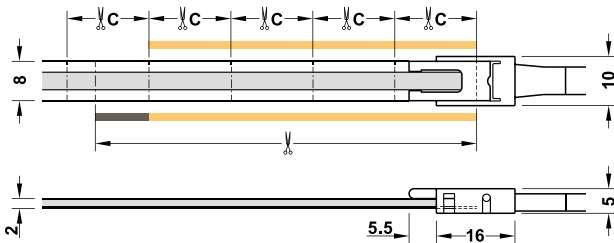
LED strip light COB 24 V, 8 mm, IP20

Plus 



- > Homogeneous illumination, no visible LED points
- > Refraction angle of 150°
- > Can also be shortened between cut marks

Dimmable:	Yes
Area of Application:	Indirect light behind furniture, objects, glass edges
Version:	COB LED, i.e. continuous phosphor coating over all individual LEDs of the entire strip light, without visible points
Width of strip:	8 mm
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs/m:	480
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Mounting:	Self-adhesive
Supplied with:	1 Roll



Yellow: luminous strip section
Grey: non-luminous strip section
(with cut between two marks)
C = 16.67 mm (section length)

2700K	5000K	150°	2200K	6500K	150°	2700K	5000K	150°
585	680	— 250	885	1300	— 250	1620	1870	— 250
250	290	— 500	380	580	— 500	750	830	— 500
145	165	— 750	220	325	— 750	410	470	— 750
90	105	— 1000	140	200	— 1000	250	290	— 1000
[lx]	[lx]	[mm]	[lx]	[lx]	[mm]	[lx]	[lx]	[mm]

LED 3103

LED 3104

LED 3105

Illuminance value in lx applies to 1 m (39 3/8") strip length



Monochrome



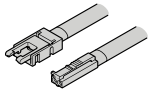
Colour temperature K	Wattage W	Luminous flux/m lm	Luminous efficiency lm/W	Max. strip light length (visual) m	5 m	50 m
LED 3103						
2700	4.8	430	89	8	833.76.500	833.76.505
3000		465	96		833.76.501	833.76.506
4000		500	104		833.76.502	833.76.507
5000		460	95		833.76.503	833.76.508
LED 3104						
2700	9.6	850	88	5	833.76.510	833.76.515
3000		900	93		833.76.511	833.76.516
4000		980	102		833.76.512	833.76.517
5000		900	93		833.76.513	833.76.518
6500		910	95		833.76.540	833.76.545
LED 3105						
2700	14.4	1235	85	4	833.76.520	833.76.525
3000		1300	90		833.76.521	833.76.526
4000		1400	97		833.76.522	833.76.527
5000		1325	92		833.76.523	833.76.528

Note

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.

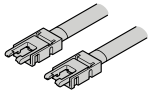
Please note: a strip light section with new infeed following on directly after will be noticeably brighter.

Accessories for LED strip light 8 mm



> 5 A/18 AWG lead

Length mm	Cat. No.
100	833.75.762
500	833.75.763
2000	833.75.764



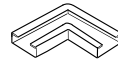
> 5 A/18 AWG interconnecting lead

Length mm	Cat. No.
50	833.75.765
2000	833.75.766



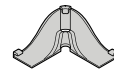
> 5 A clip connector

Cat. No.
Clip connector
833.75.767



> Corner connector, 90° rigid, 5 A for left or right hand use

Cat. No.
Corner connector rigid
833.89.318



> Corner guide in 90° aluminium profiles

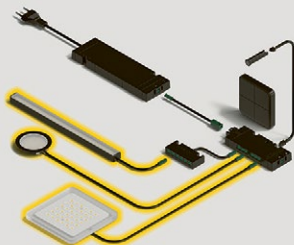
Cat. No.
Corner guide
833.89.308

Note: Lead and connecting cables can be used with SMD and COB strip lights.



Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting Profiles

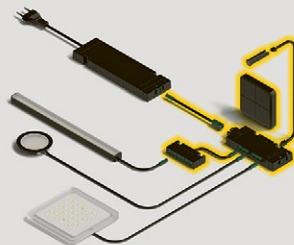
Furniture light
Ceiling, wall light



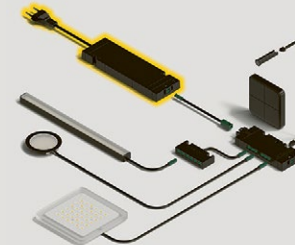
Controlling Wireless

Sensors 
Actors 

Wired
Sensors
Actors



Supplying Drivers



Tunable white
(2-wire technology) 2

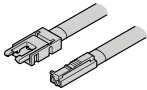
Colour temperature K	Wattage W	Luminous flux/m lm	Luminous efficiency lm/W	Max. strip light length (visual) m	5 m	50 m
LED 3106						
2700–5000	4.8	445–460	92–95	7.5	833.76.530	833.76.535
LED 3107						
2700–5000	9.6	890–895	92–93	5.5	833.76.531	833.76.536
LED 3108						
2700–5000	14.4	1325	92	4	833.76.532	833.76.537

Note

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.

Please note: a strip light section with new infeed following on directly after will be noticeably brighter.

Accessories for LED strip light 8 mm



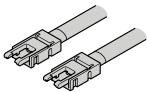
> 5 A/18 AWG lead

Length mm	Cat. No.
100	833.75.762
500	833.75.763
2000	833.75.764



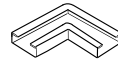
> 5 A clip connector

Cat. No.
Clip connector
833.75.767



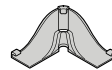
> 5 A/18 AWG interconnecting lead

Length mm	Cat. No.
50	833.75.765
2000	833.75.766



> Corner connector, 90° rigid, 5 A for left or right hand use

Cat. No.
Corner connector rigid
833.89.318



> Corner guide in 90° aluminium profiles

Cat. No.
Corner guide
833.89.308

Note: Lead and connecting cables can be used with SMD and COB strip lights.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Profiles

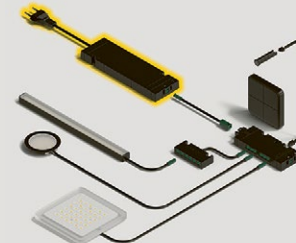
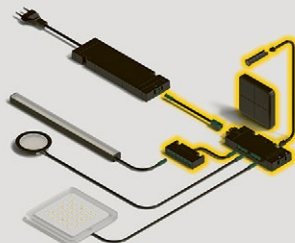
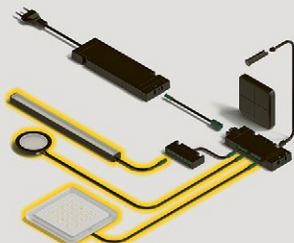
Furniture light
Ceiling, wall light

Controlling
Wireless

Sensors
Actors

Wired
Sensors
Actors

Supplying
Drivers



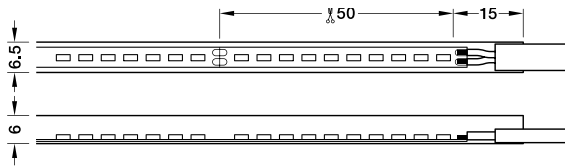
LED 3084/LED 3085

LED strip light with silicone sleeve 6.5 x 6 mm, IP44

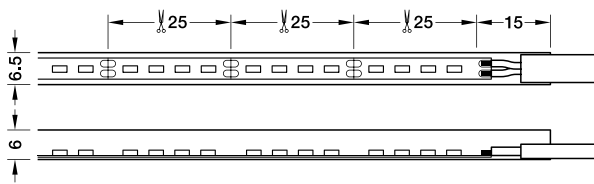
Plus 



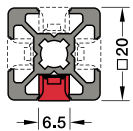
- > Can be inserted into narrow groove (6.5 x 6 mm)
- > Suitable for Modu³
- > LED points not visible
- > Can be flexibly routed (>30 mm radius)
- > Can be split once: both pieces with separate lead
- > Splash proof for use in wet rooms



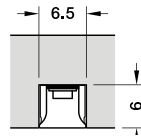
LED 3084











LED 3085



Installation in Modu³profile



Installation in groove

2700K	5000K	120°		2700K	5000K	120°	
900	1015		— 250	800	890		— 250
360	405		— 500	320	360		— 500
225	225		— 750	180	200		— 750
130	145		— 1000	115	130		— 1000
[lx]	[lx]		[mm]	[lx]	[lx]		[mm]

LED 3084

LED 3085

Illuminance value in lx applies to 1 m (39 3/8") strip length

Dimmable:	Yes
Area of Application:	Storage spaces, display cabinets
Material:	Silicone
Silicone tube finish:	Matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs/m:	320 (LED 3084), 2 x 320 (LED 3085)
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Routing width:	6.5 mm
Routing depth:	6 mm
Min. bending radius:	15 mm
Mounting:	For recess mounting, for press fitting
Supplied with:	1 LED strip with 2 x 1 m soldered lead (1 each to the right/left of the strip, at 0.55 m and 0.85 m only 1 lead)



Monochrome



Colour temperature K	Wattage/m W	Luminous flux/m lm	Luminous efficiency lm/W	Max. strip light length (visual) m	5 m
LED 3084					
2700	9.6	640	67	3.5	833.75.375
3000		680	71		833.75.376
4000		730	76		833.75.377
5000		725	76		833.75.378

Tunable white (2-wire technology)



LED 3085					
2700–5000	9.6	570–640	59–67	3.5	833.75.388

Installation reference

After cutting the silicone tube, a seal is required to restore the degree of protection IP44.

Note

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.



Please note: a strip light section with new infeed following on directly after will be noticeably brighter.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting Profiles

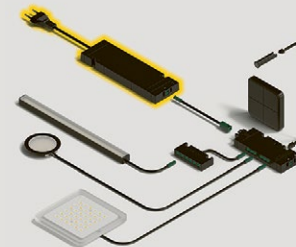
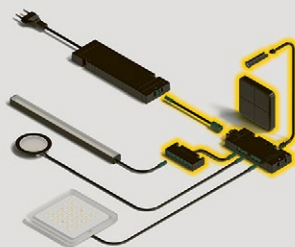
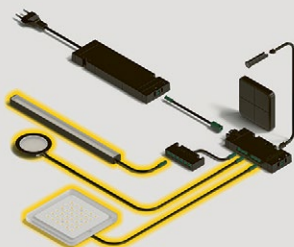
Furniture light
Ceiling, wall light

Controlling Wireless

Sensors 
Actors 

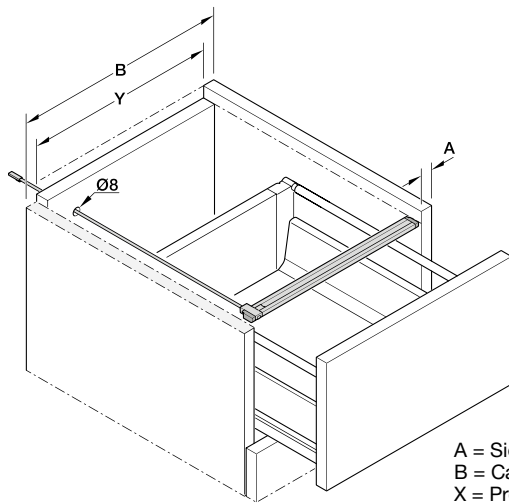
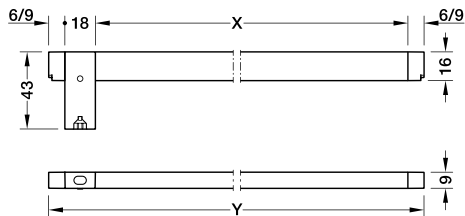
Wired
Sensors
Actors

Supplying Drivers





LED 3110

Drawer light



A = Side panel thickness
 B = Cabinet width
 X = Profile length
 Y = Internal cabinet width

2700K	5000K		
450	500		— 250
160	170		— 500
[lx]	[lx]		[mm]

Average illuminance in the drawer

Illuminance value in lx applies to 1 m (39 3/8") strip length

- > Change of light color possible
- > Homogeneous lighting
- > Only 9 mm high

Dimmable:	No
Area of Application:	Light in drawer
Version:	With door sensor, automatic shut-off after 3 minutes, light colour change at the push of a button (2700 K/3000 K/4000 K/5000 K)
Material:	Housing: Aluminium Diffuser: Polycarbonate
Diffuser colour/finish:	Opal white
Other housing features:	Plastic sensor and holders
Width:	16 mm
Height:	9 mm
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Energy efficiency class:	F
Degree of protection:	IP20
Installation:	For screw fixing, For snapping in
Installation reference:	Screw 2 brackets to the cabinet side panels for snapping in the light. Use 6 mm wide supports with side panel thickness of 19 mm, use 9 mm wide supports for side panel thickness of 16 mm. Attach the supplied reflective adhesive pad to the inside of the drawer front panel to ensure the effectiveness of the sensor.
Cable length:	2000 mm
Supplied with:	1 Drawer light with lead 1 Reflective adhesive pad 3 Cable holders for glue fixing Mounting material



**Tunable white
(2-wire technology)** 

Colour temperature K	For cabinet width mm	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700–5000	450	3.8	200–220	52–57	833.76.280
	500	4.0	210–230	52–57	833.76.281
	600	5.0	270–295	54–59	833.76.282
	800	7.0	370–410	52–58	833.76.283
	900	8.0	410–465	51–58	833.76.284
	1000	9.0	440–495	48–55	833.76.285

Note

Power consumption of sensor: 0.2 W.
For other dimensions, select the next larger luminaire and shorten.

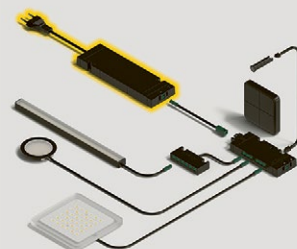
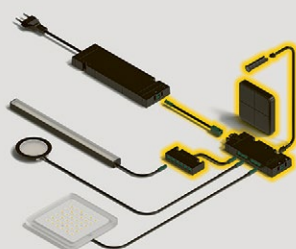
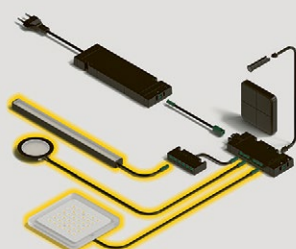
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Furniture light
Ceiling, wall light

Controlling
Wireless 
Sensors 
Actors 

Wired
Sensors
Actors

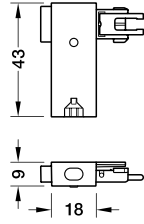
Supplying
Drivers



LED 3110

Individual components, for constructing of a drawer light

Pro



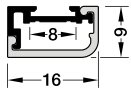
Inline door sensor

Version:	Automatic shut-off after 3 minutes, light colour change at the push of a button (2700 K/3000 K/4000 K/5000 K)
Material:	Plastic
Number of input ports:	1 x socket
Inputs:	1 x socket, modular with interval, 2-pin, 12 V
Degree of protection:	IP20
Supplied with:	1 Door sensor and reflective sticker for dark front panels 1 End cap for profile Mounting materials for profile (for 16 to 19 mm wide cabinet side panels) 3 Cable holders

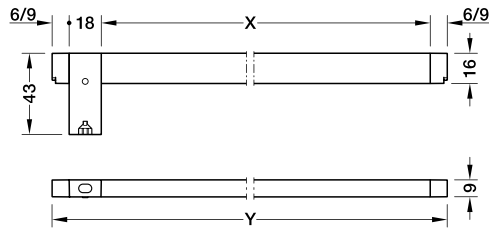


Drawer profile 3110

Material:	Profile: Aluminium, Diffuser: Polycarbonate
Supplied with:	1 Aluminium profile 1 Diffuser opal white



Profile 3110



X = Profile length
Y = Internal cabinet width

Inline door sensor

Colour/finish

Opal white

Cat. No.

833.75.786

Note

Delivery Time: 90-120 Days

Profile 3110

Silver coloured anodized; Diffuser: opal white

2500 mm

833.75.780

Order reference

Required for constructing drawer light:

1 Drawer profile,

1 Door sensor

1 Modular lead (833.95.791)

1 LED strip light (LED 3107 COB, 833.76.531)

Note

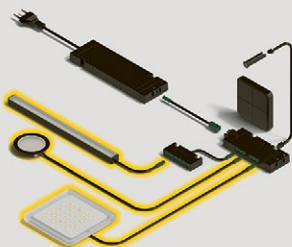
Delivery Time: 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED 3107 page 96

Furniture light
Ceiling, wall light



Controlling

Wireless

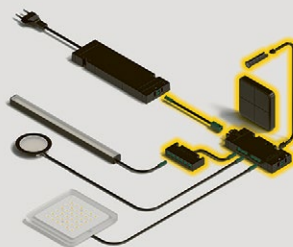
Sensors

Actors

Wired

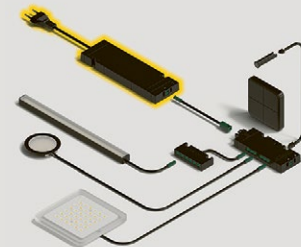
Sensors

Actors



Supplying

Drivers



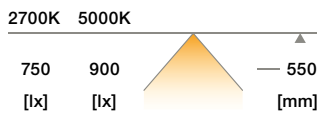
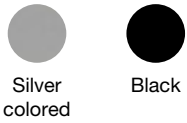
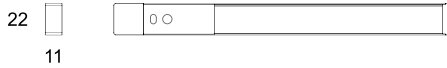
Kitchen surface-mounted downlight LED 3053

Linear surface-mounted light

Pro 


- > With integrated control unit
- > Lens technology for glare-free illumination of the work surface

Dimmable:	Yes
Version:	Surface-mounted light with control unit on the right, for switching, dimming and colour change.
Material:	Housing: Aluminium black or silver anodized Diffuser: Polycarbonate
Diffuser: colour/finish:	transparent
Width:	21 mm
Height:	11 mm
Life time:	L80B10 >50,000 hrs L70B50 >80,000 hrs
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Degree of protection:	IP20
Mounting:	Concealed installation for clipping onto screwed-in mounting clips
Installation reference:	The light can be individually mounted with the sensor on the right or left by turning the lens. The cable outlet can be at the front, rear or top. The light can be shortened as required by the fitter.
Cable length:	2000 mm
Supplied with:	1 Surface-mounted light with lead and control unit 4 Mounting clips for screw fixing



For front mounting



Housing colour	Colour temperature K	Length mm	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
Silver	2700–5000	3000	45.0	2400–2700	53–60	833.76.541
Black	2700–5000	3000	45.0	2300–2500	51–55	833.76.542

Note

Power consumption of the sensor: 0.2 W
When power is restored after a power failure, the light returns to its last state (Off/On – including dimming level and colour temperature)

For rear mounting



Silver	2700–5000	3000	45.0	2400–2700	53–60	833.76.543
Black	2700–5000	3000	45.0	2300–2500	51–55	833.76.544

Note

Power consumption of the sensor: 0.2 W
When power is restored after a power failure, the light returns to its last state (Off/On – including dimming level and colour temperature)

Lighting system. Supplementary components in the Häfele Lighting catalogue.

Lighting

Furniture light
Wall, ceiling light

Controlling

Wireless

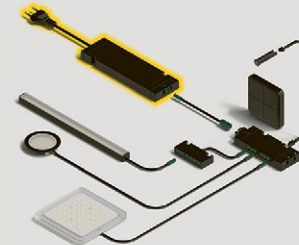
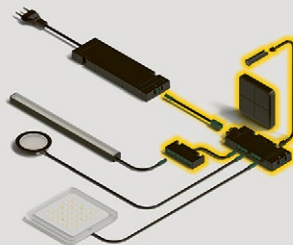
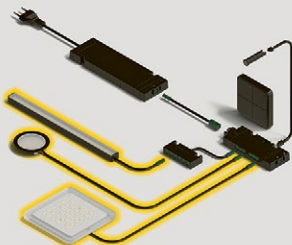
Sensors 
Actors 

Wired

Sensors
Actors

Supplying

Drivers



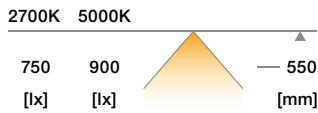
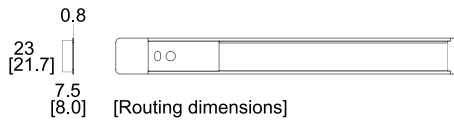
Kitchen recess-mounted light LED 3054

Linear recess-mounted light

Pro 

- > With integrated control unit
- > Lens technology for glare-free illumination of the work surface

Dimmable:	Yes
Version:	Surface-mounted light with control unit on the right, for switching, dimming and colour change.
Material:	Housing: Aluminium black or silver anodized Diffuser: Polycarbonate
Diffuser: colour/finish:	Transparent
Width:	23 mm
Milled groove width:	21.7 mm
Height:	7.5 mm
Milled groove depth:	8 mm
Life time:	L80B10 >50,000 hrs L70B50 >80,000 hrs
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Degree of protection:	IP20
Mounting:	With holding clamps in milled groove
Installation reference:	The light can be individually mounted with the sensor on the right or left by turning the lens. The cable outlet can be at the front, rear or top. The light can be shortened as required by the fitter.
Cable length:	2000 mm
Supplied with:	1 Recess-mounted light with lead and control unit



For front mounting



Housing colour	Colour temperature K	Length mm	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
Silver	2700–5000	3000	45.0	2400–2700	53–60	833.76.551
Black	2700–5000	3000	45.0	2300–2500	51–55	833.76.552

Note

Power consumption of the sensor: 0.2 W

When power is restored after a power failure, the light returns to its last state (Off/On – including dimming level and colour temperature)

For rear mounting



Silver	2700–5000	3000	45.0	2400–2700	53–60	833.76.553
Black	2700–5000	3000	45.0	2300–2500	51–55	833.76.554

Note

Power consumption of the sensor: 0.2 W

When power is restored after a power failure, the light returns to its last state (Off/On – including dimming level and colour temperature)



Lighting system. Supplementary components in the Häfele Lighting catalogue.

Lighting

Furniture light
Wall, ceiling light

Controlling

Wireless

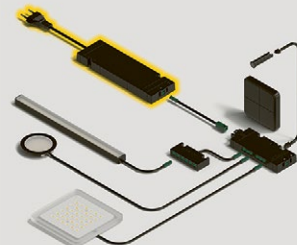
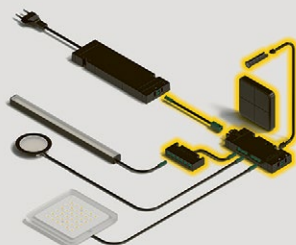
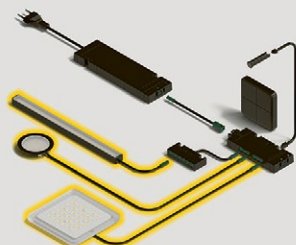
Sensors 
Actors 

Wired

Sensors
Actors

Supplying

Drivers



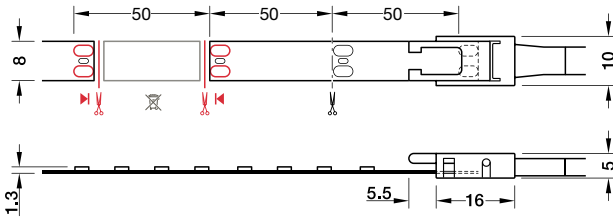
LED 3142/LED 3145/LED 3148

LED strip light 24 V, 8 mm, IP20

Pro 


- > Equipped with high-quality CREE LEDs
- > Highly efficient and sustainable (>160 lm/W)
- > Long life time and high performance

Dimmable:	Yes
Area of Application:	Indirect light in cabinets (inside), bases, staircase area, LED 3148: also work light, indirect room lighting
Width of strip:	8 mm
Number of LEDs/m:	160
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Colour rendering index Ra:	92
Colour rendering index R9:	>50
Mounting:	Self-adhesive
Supplied with:	1 Roll



2700K	5000K	120°		2700K	5000K	120°	
1050	1130		— 250	2145	2300		— 250
435	470		— 500	900	955		— 500
240	260		— 750	480	515		— 750
145	160		— 1000	300	320		— 1000
[lx]	[lx]		[mm]	[lx]	[lx]		[mm]

LED 3142

LED 3145

2700K	6500K	120°	
3085	3400		— 250
1240	1300		— 500
675	700		— 750
415	450		— 1000
[lx]	[lx]		[mm]

LED 3148

Illuminance value in lx applies to 1 m (39 3/8") strip length



Monochrome



Colour temperature K	Wattage/m W	Luminous flux/m lm	Luminous efficiency lm/W	Max. strip light length (visual) m	5 m	50 m
LED 3142						
2700	3.0	440	147	11	833.76.215	833.76.445
3000		465	155		833.76.216	833.76.446
4000		490	163		833.76.217	833.76.447
5000		495	165		833.76.218	833.76.448
LED 3145						
2700	6.0	920	153	6.5	833.76.225	833.76.455
3000		970	162		833.76.226	833.76.456
4000		1000	167		833.76.227	833.76.457
5000		1040	173		833.76.228	833.76.458
LED 3148						
2700	9.5	1445	152	6	833.76.255	833.76.475
3000		1475	155		833.76.256	833.76.476
4000		1540	162		833.76.257	833.76.477
5000		1550	163		833.76.258	833.76.478
6500		1520	160		833.76.259	833.76.479

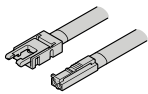
Note

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.

Please note: a strip light section with new infeed following on directly after will be noticeably brighter.

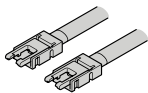
Delivery Time: 90-120 Days

Accessories for LED strip 8 mm



> Lead 5 A/18 AWG

Length mm	Cat. No.
100	833.75.762
500	833.75.763
2000	833.75.764



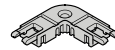
> Interconnecting lead 5 A/18 AWG

Length mm	Cat. No.
50	833.75.765
2000	833.75.766



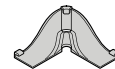
> Clip connector 5 A

Cat. No.
Clip connector
833.89.206



> Corner connector 90° rigid, 5 A for left or right

Cat. No.
Corner connector rigid
833.89.187



> Corner guide in 90° aluminium profiles

Cat. No.
Corner guide
833.89.308

Note: Lead and interconnecting lead can be used with SMD and COB strips.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting Profiles

Furniture light
Ceiling, wall light

Controlling

Wireless

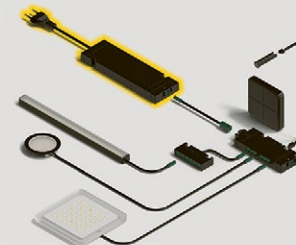
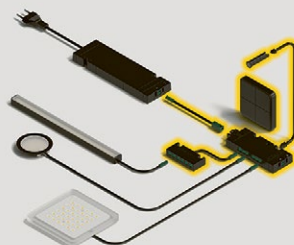
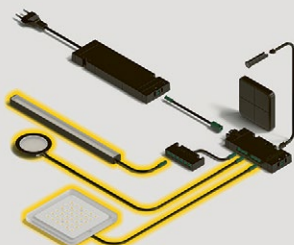
Sensors
Actors

Wired

Sensors
Actors

Supplying

Drivers



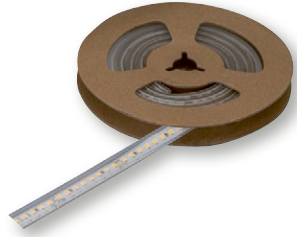
LED 3146

LED strip light in silicone sleeve 24 V, 8 mm, IP44

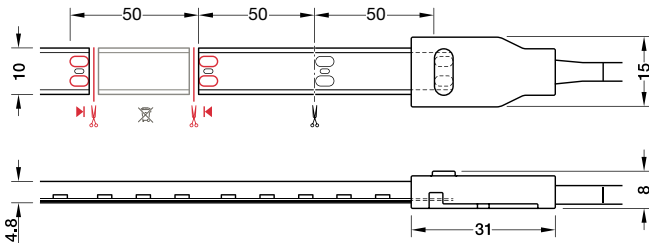
Pro 




> Equipped with high-quality CREE LEDs



Dimmable:	Yes
Area of Application:	Indirect light in cabinets (inside), bases, staircase area
Width of strip:	8 mm
Material:	Silicone
Silicone tube width:	10 mm
Silicone tube height:	4.8 mm
Number of LEDs/m:	160
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Colour rendering index Ra:	92
Colour rendering index R9:	>50
Mounting:	Self-adhesive
Supplied with:	1 Roll



2700K	5000K	120°	
1855	2020		— 250
790	860		— 500
435	475		— 750
270	295		— 1000
[lx]	[lx]		[mm]

Illuminance value in lx applies to 1 m (39 3/8") strip length



Monochrome



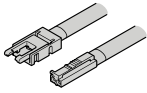
Colour temperature K	Wattage/m W	Luminous flux/m lm	Luminous efficiency lm/W	Max. strip light length (visual) m		
					5 m	50 m
2700	6.0	820	137	7	833.76.235	833.76.465
3000		870	145		833.76.236	833.76.466
4000		900	150		833.76.237	833.76.467
5000		930	155		833.76.238	833.76.468

Note

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.

Please note: a strip light section with new infeed following on directly after will be noticeably brighter.
Delivery Time: 90-120 Days

Accessories for LED strip 8 mm silicone



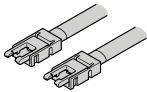
> Lead 5 A/18 AWG

Length mm	Cat. No.
2000	833.95.709



> End cap set with adhesive for sealing the shortened silicone sleeve; achieves degree of protection IP44

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



> Interconnecting lead 5 A/18 AWG

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



Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting Profiles

Furniture light
Ceiling, wall light

Controlling

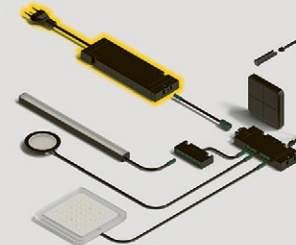
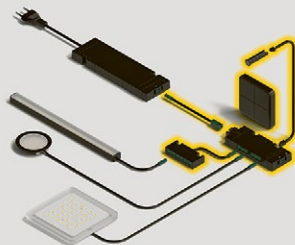
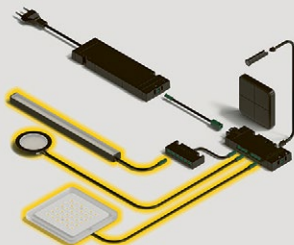
Wireless

Sensors 
Actors 

Wired

Sensors
Actors

Supplying Drivers



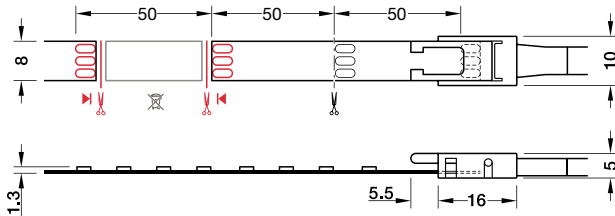
LED 3044/LED 3047/LED 3049

LED strip light 24 V, 8 mm, IP20

Pro 


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

Dimmable:	Yes
Area of Application:	Indirect light in cabinets (inside), bases, staircase area, LED 3047/3049: also work light, indirect room lighting
Width of strip:	8 mm
Number of LEDs/m:	2 x 120
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Colour rendering index Ra:	>90
Colour rendering index R9:	>80
Mounting:	Self-adhesive
Supplied with:	1 Roll



2700K	5000K	120°		2700K	5000K	120°	
1025	1075		— 250	1865	2045		— 250
425	445		— 500	785	865		— 500
230	245		— 750	430	475		— 750
145	150		— 1000	270	295		— 1000
[lx]	[lx]		[mm]	[lx]	[lx]		[mm]

LED 3044

LED 3047

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

LED 3049

Illuminance value in lx applies to 1 m (39 3/8") strip length



Tunable white
(3-wire technology) 

Colour temperature K	Wattage/m W	Luminous flux/m lm	Luminous efficiency lm/W	Max. strip light length (visual) m	5 m	50 m
LED 3044						
2700–5000	4.8	425–465	89–97	8.5	833.76.332	833.76.333
LED 3047						
2700–5000	9.6	825–930	86–97	6.5	833.76.350	833.76.351
LED 3049						
2700–5000	14.4	1230–1370	85–95	5	833.76.360	833.76.361

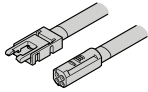
Note

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.

Please note: a strip light section with new infeed following on directly after will be noticeably brighter.

Delivery Time: 90-120 Days

Accessories for LED strip 8 mm tunable white



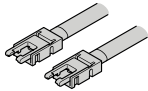
> Lead 3.5 A/20 AWG

Length mm	Cat. No.
100	833.93.743
2000	833.95.708



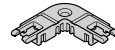
> Clip connector 3.5 A

Cat. No.
Clip connector
833.89.208



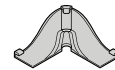
> Interconnecting lead 3.5 A/20 AWG

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



> Corner connector 90° rigid, 3.5 A for left or right

Cat. No.
Corner connector rigid
833.89.188




> Corner guide in 90° aluminium profiles



Cat. No.
Corner guide
833.89.308

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Profiles

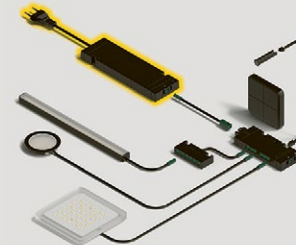
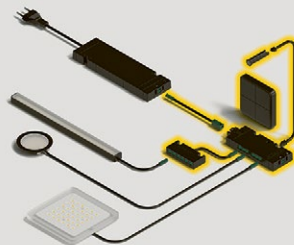
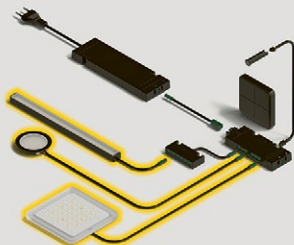
Furniture light
Ceiling, wall light

Controlling
Wireless 

Sensors 
Actors 

Wired
Sensors
Actors

Supplying
Drivers



LED 3080

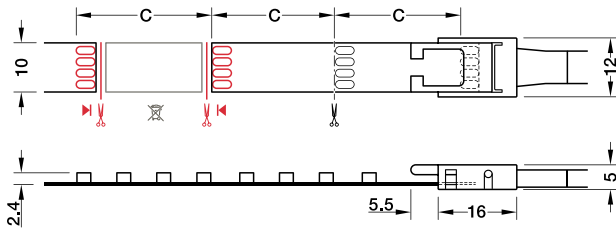
LED strip light 24 V, 10 mm, IP 20

Pro

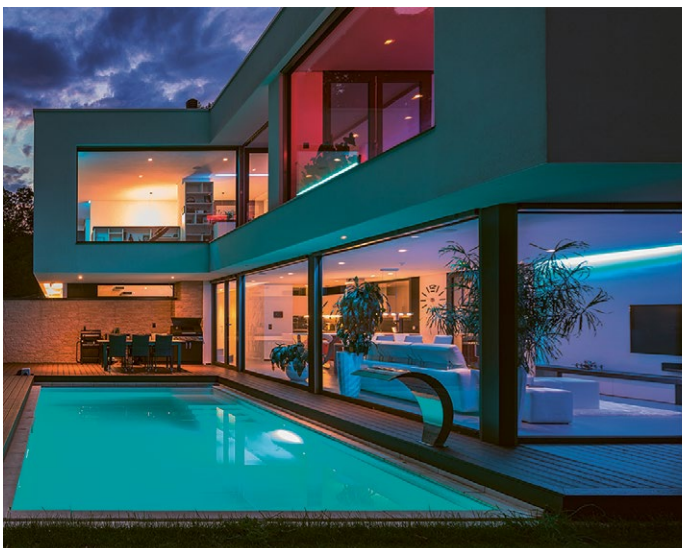


- > RGB, 16 million color options
- > Homogeneous illumination

Dimmable:	Yes
Area of Application:	Accent lighting in furniture, interiors, direct/indirect ceiling lighting
Width of strip:	10 mm
Number of LEDs/m:	120
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Mounting:	Self-adhesive
Supplied with:	1 Roll



C = 50 mm (section length)



RGB

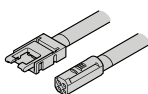


Wattage/m W	Luminous flux/m lm	Luminous efficiency lm/W	Max. strip length (visual) m	5 m
9.6	530	51	6.5	833.76.386

Note

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.
Please note: a strip light section with new infeed following on directly after will be noticeably brighter.
Delivery Time: 90-120 Days

Accessories for LED RGB strip light, 10 mm



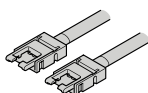
> 3.5 A/20 AWG lead

Length mm	Cat. No.
2000	833.95.710



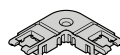
> 3.5 A clip connector

Clip connector	Cat. No.
	833.89.209



> 3.5 A/20 AWG interconnecting lead

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



> Corner connector 90° rigid, 3.5 A for left or right hand use

Corner connector rigid	Cat. No.
	833.89.189

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Profiles

Furniture light
Ceiling, wall light

Controlling

Wireless

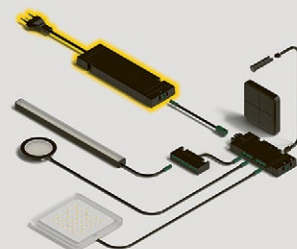
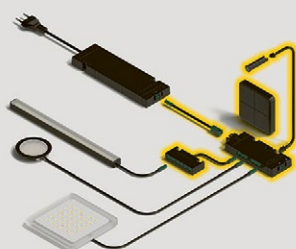
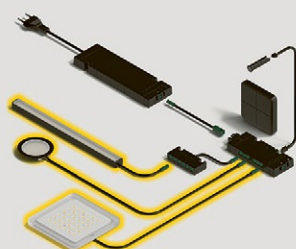
Sensors
Actors

Wired

Sensors
Actors

Supplying

Drivers

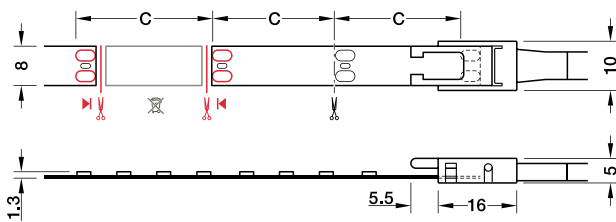


LED 3071/LED 3072/LED 3073/LED 3074/LED 3076



LED strip light 24 V, 8 mm, IP20

Plus 


- > Equipped with high-quality CREE LEDs
- > Suitable for almost all applications





C = 50 mm (section length)

2700K	5000K	120°	2700K	5000K	120°
960	1270		570	620	
415	550	— 250	235	250	— 250
230	300	— 500	125	135	— 500
160	210	— 750	75	85	— 750
[lx]	[lx]	— 1000	[lx]	[lx]	— 1000
		[mm]			[mm]


LED 3071

LED 3072

2700K	5000K	120°	2700K	5000K	120°
2630	3530		2230	2400	
1145	1520	— 250	925	990	— 250
640	840	— 500	500	530	— 500
390	515	— 750	305	320	— 750
[lx]	[lx]	— 1000	[lx]	[lx]	— 1000
		[mm]			[mm]

LED 3073

LED 3074

2700K	5000K	120°
3320	4410	
1455	1935	— 250
805	1065	— 500
495	645	— 750
[lx]	[lx]	— 1000
		[mm]

LED 3076

Illuminance value in lx applies to 1 m (39 3/8") strip length



Monochrome



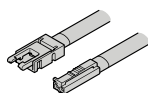
Colour temperature K	Wattage W/m	Luminous flux/m lm	Luminous efficiency lm/W	Max. strip light length (visual) m	5 m	50 m
LED 3072						
2700	2.4	210	88	15	833.76.615	833.76.715
3000		230	96		833.76.616	833.76.716
4000		240	100		833.76.617	833.76.717
5000		240	100		833.76.618	833.76.718
LED 3071						
2700	4.8	430	90	10	833.76.605	833.76.705
3000		460	96		833.76.606	833.76.706
4000		485	101		833.76.607	833.76.707
5000		480	100		833.76.608	833.76.708
LED 3074						
2700	9.6	830	86	7	833.76.635	833.76.735
3000		905	94		833.76.636	833.76.736
4000		960	100		833.76.637	833.76.737
5000		930	97		833.76.638	833.76.738
LED 3073						
2700	14.4	1200	85	6	833.76.625	833.76.725
3000		1290	88		833.76.626	833.76.726
4000		1340	92		833.76.627	833.76.727
5000		1330	91		833.76.628	833.76.728
LED 3076						
2700	19.2	1420	101	6	833.76.655	833.76.755
3000		1540	105		833.76.656	833.76.756
4000		1650	111		833.76.657	833.76.757
5000		1570	112		833.76.658	833.76.758

Note

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.

Please note: a strip light section with new infeed following on directly after will be noticeably brighter.
Delivery Time: 90-120 Days

Accessories for LED strip light 8 mm



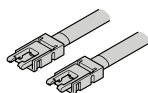
> 5 A/18 AWG lead

Length mm	Cat. No.
100	833.75.762
500	833.75.763
2000	833.75.764



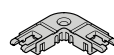
> 5 A clip connector

Cat. No.
Clip connector
833.89.206



> 5 A/18 AWG interconnecting lead

Length mm	Cat. No.
50	833.75.765
2000	833.75.766



> Corner connector, 90° rigid, 5 A for left or right hand use

Cat. No.
Corner connector rigid
833.89.187



> Corner guide in 90° aluminium profiles

Cat. No.
Corner guide
833.89.308

Note: Lead and connecting cables can be used with SMD and COB strip lights.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting Profiles

Furniture light
Ceiling, wall light

Controlling

Wireless

Sensors

Actors

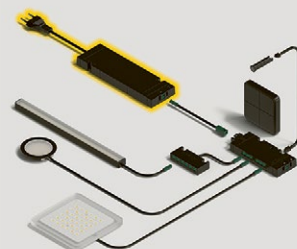
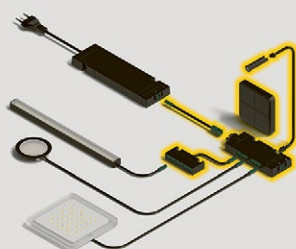
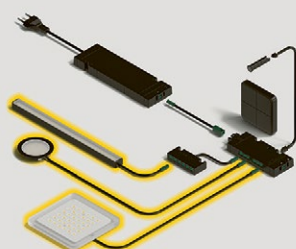
Wired

Sensors

Actors

Supplying

Drivers



LED 3057

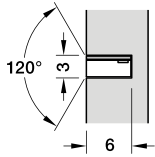
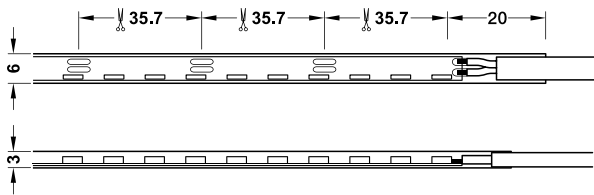
LED strip light with silicone sleeve 3 x 6 mm, IP44


Plus 



- > Light opening at narrow side, no LED points visible
- > Narrow groove 3 x 6 mm and flat surface, shelves remain adjustable
- > Wave and ring-shaped installation possible (radius min. 15 mm)
- > Can be split once: both pieces with separate lead
- > Splash proof for use in wet rooms

Dimmable:	Yes
Area of Application:	Storage spaces, display cabinets, curves
Material:	Silicone
Silicone tube finish:	Matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs/m:	196
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Routing width:	3 mm
Routing depth:	6 mm
Min. bending radius:	15 mm
Mounting:	For press fitting, for recess mounting in milled groove
Supplied with:	1 LED strip light with 2 x 1 m soldered lead (1 each on the left/right of the strip light)



2700K	4000K	120°	
550	640		— 250
230	260		— 500
125	140		— 750
75	90		— 1000
[lx]	[lx]		[mm]

LED 3057

Illuminance value in lx applies to 1 m (39 3/8") strip length



Monochrome



Colour temperature K	Luminous flux/m lm	Wattage/m W	Luminous efficiency lm/W	Max. strip light length (visual) m	1.5 m	3 m	5 m
2700	240	9.6	25	5.5	833.75.400	833.75.410	833.75.420
3000	250		26		833.75.401	833.75.411	833.75.421
4000	265		28		833.75.402	833.75.412	833.75.422

Note

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.

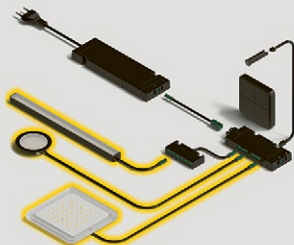
Please note: a strip light section with new infeed following on directly after will be noticeably brighter.
Delivery Time: 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

Profiles

Furniture light
Ceiling, wall light



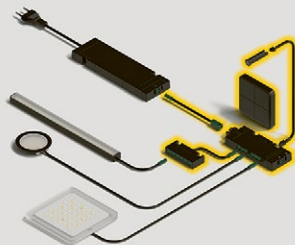
Controlling

Wireless

Sensors
Actors

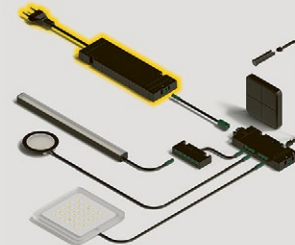
Wired

Sensors
Actors



Supplying

Drivers



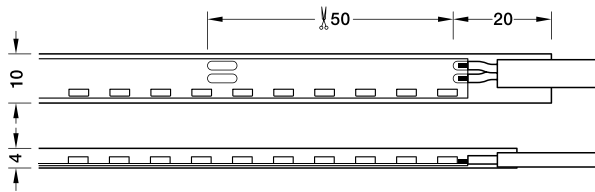
LED 3099/LED 3199

LED strip light with silicone sleeve 4 x 10 mm, IP44

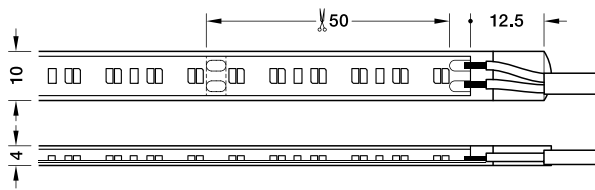
Plus 



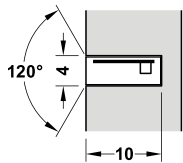
- > Light opening at narrow side, no LED points visible
- > Slight groove (width 4 mm) and flat surface, shelves remain adjustable
- > Wave and ring-shaped installation possible (radius min. 30 mm)
- > Can be split once: both pieces with separate lead
- > Splash proof for use in wet rooms











LED 3099



LED 3199



Installation in groove

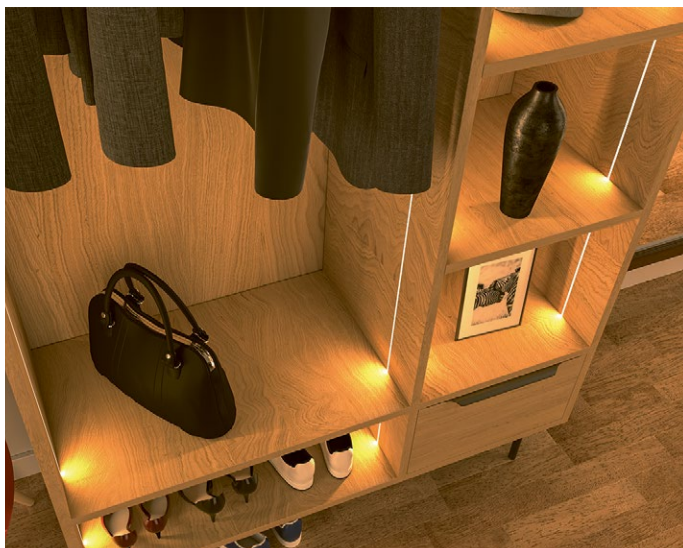
2700K	5000K	120°		2700K	5000K	120°	
820	850		— 250	505	610		— 250
190	215		— 500	200	220		— 500
85	100		— 750	110	120		— 750
50	55		— 1000	70	70		— 1000
[lx]	[lx]		[mm]	[lx]	[lx]		[mm]

LED 3099

LED 3199

Illuminance value in lx applies to 1 m (39 3/8") strip length

Dimmable:	Yes
Area of Application:	Storage spaces, display cabinets, curves
Material:	Silicone
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Silicone tube height:	4 mm
Number of LEDs/m:	120
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Routing width:	4 mm
Routing depth:	10 mm
Min. bending radius:	15 mm
Mounting:	For recess mounting in milled groove
Cable length:	200 mm
Supplied with:	3199: 1 LED strip with 2 x 0.2 m soldered lead 3099: 1 LED strip with 2 x 1 m soldered lead



Monochrome



Colour temperature K	Wattage/m W	Luminous flux/m lm	Luminous efficiency lm/W	Max. strip light length (visual) m	2 m	3 m	5 m
LED 3099							
2700	9.6	500	52	3	833.72.305	833.75.260	833.75.265
3000		520	54		833.72.306	833.75.261	833.75.266
4000		540	56		833.72.307	833.75.262	833.75.267
5000		540	56		833.72.308	833.75.263	833.75.268

Tunable white (2 wire technology)



LED 3199							
2700–5000	9.6	190–200	21	7.0	833.75.391	833.75.392	833.75.393

Note

Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.

Please note: a strip light section with new infeed following on directly after will be noticeably brighter.

Lighting system. Additional components in the Häfele Lighting catalogue.



Lighting

Profiles

Furniture light
Ceiling, wall light

Controlling

Wireless

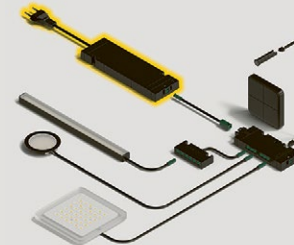
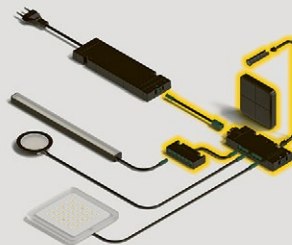
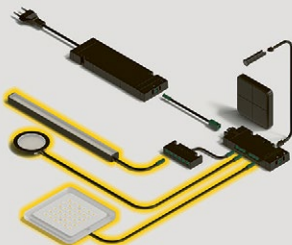
Sensors 
Actors 

Wired

Sensors
Actors

Supplying

Drivers



LED 3178/LED 3179/LED 3180

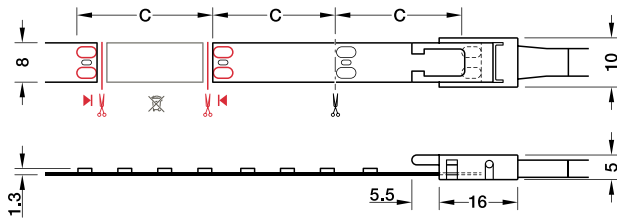
LED strip light 24 V, 8 mm, IP20

Plus 

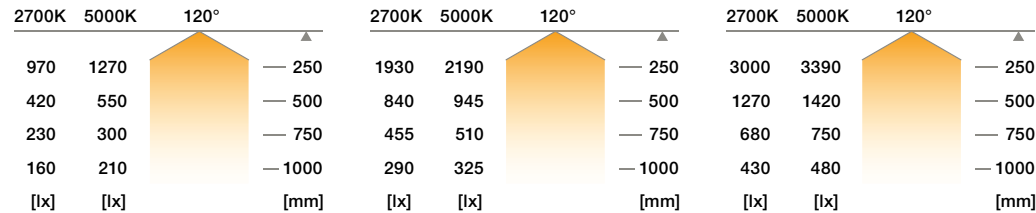


- > Tunable white
- > Equipped with high-quality CREE LEDs

Dimmable:	Yes
Area of Application:	Indirect light in cabinets (inside), base, staircase area, LED 3179/3180: also work light, indirect room lighting
Width of strip:	8 mm
Colour rendering index Ra:	92
Colour rendering index R9:	>50
Number of LEDs/m:	120
Life time:	L80/B10 >30,000 hrs L70/B50 >50,000 hrs
Mounting:	Self-adhesive
Supplied with:	1 Roll



C = 50 mm (section length)



LED 3178

LED 3179

LED 3180

Illuminance value in lx applies to 1 m (39 3/8") strip length



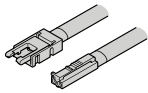
Tunable white
(2-wire technology) 2

Colour temperature K	Wattage W	Luminous flux/m lm	Luminous efficiency lm/W	Max. strip light length (visual) m	5 m	50 m
LED 3178						
2700–5000	4.8	450–515	93–107	9.5	833.76.670	833.76.770
LED 3179						
2700–5000	9.6	895–1015	93–106	6.5	833.76.671	833.76.771
LED 3180						
2700–5000	14.4	1285–1460	88–101	5.5	833.76.672	833.76.772

Note

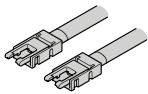
Maximum strip length (visual) describes a strip section with a visually imperceptible drop in luminous flux of max. 30%.
Please note: a strip light section with new infeed following on directly after will be noticeably brighter.
Delivery Time: 90-120 Days

Accessories for LED strip light 8 mm



> 5 A/18 AWG lead

Length mm	Cat. No.
100	833.75.762
500	833.75.763
2000	833.75.764



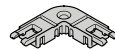
> 5 A/18 AWG interconnecting lead

Length mm	Cat. No.
50	833.75.765
2000	833.75.766



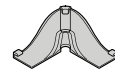
> 5 A clip connector

Cat. No.
Clip connector
833.89.206



> Corner connector, 90° rigid, 5 A for left or right hand use

Cat. No.
Corner connector rigid
833.89.187



> Corner guide in 90° aluminium profiles

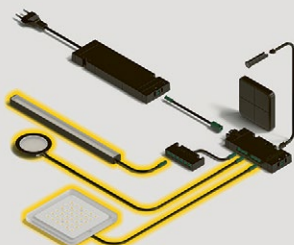
Cat. No.
Corner guide
833.89.308

Note: Lead and connecting cables can be used with SMD and COB strip lights.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Profiles

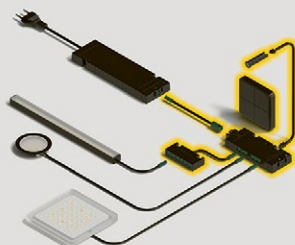
Furniture light
Ceiling, wall light



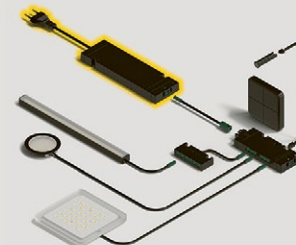
Controlling

Wireless
Sensors
Actors

Wired
Sensors
Actors



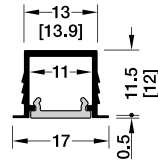
Supplying
Drivers



Profile 1103

Profile for recess mounting

Pro

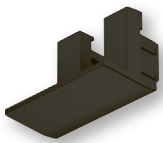


[Routing dimensions]

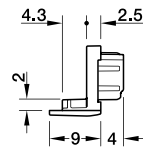
Profile 1103

Silver
colored

Black



End cap



- > 60 % recycled aluminum
- > Wide range of applications

Material:	Profile: Aluminium, Diffuser: Polycarbonate
Diffuser width:	11 mm
Routing width:	13.9 mm
Routing depth:	12 mm
Light permeability:	60–70 %
Supplied with:	1 Aluminium profile 1 Diffuser opal white

Material:	Plastic
Equipment:	With cable outlet
Supplied with:	5 Pairs of end caps



Profile 1103

Colour/finish

	2500 mm
Black, anodized, diffuser: opal white	833.72.711
Silver coloured, anodized, diffuser: opal white	833.72.710

Note

For LED strip lights up to 8 mm wide.
The surface to be bonded must be cleaned before gluing the LED strip lights.
It must be completely clean, grease-free and dust-free!

Diffusers

Homogeneous light without points from is possible 120 LEDs/m thanks to the opal white diffuser.
Points are visible with black version.
If required, please order alternative diffusers in black or transparent separately.

End cap

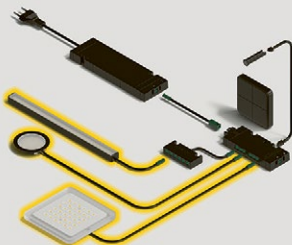
	Cat. No.
Black	833.95.767
Silver coloured	833.95.766

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Furniture light
Ceiling, wall light



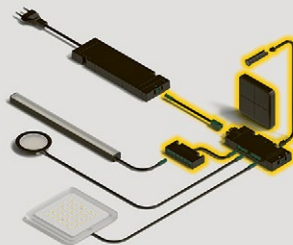
Controlling

Wireless

Sensors
Actors

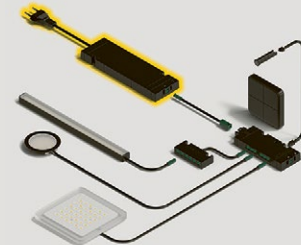
Wired

Sensors
Actors



Supplying

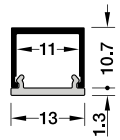
Drivers



Profile 2101

Profile for surface mounting

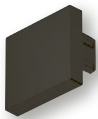
Pro



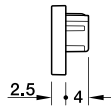
Profile 2101

Silver
colored

Black



End cap



> 60% recycled aluminum

Material: Profile: aluminium,
diffuser: polycarbonate

Internal width: 11 mm

Diffuser width: 13 mm

Light permeability 60–70%

Supplied with: 1 Aluminium profile
1 Diffuser opal white

Material: Plastic

Equipment: With drill mark for cable outlet

Supplied with: 5 Pairs of end caps



Profile 2101

Colour/finish	3000 mm
Black, anodized, diffuser: opal white	833.95.733
Silver coloured, anodized, diffuser: opal white	833.95.732

Note

For LED strip lights up to 8 mm wide.
The surface to be bonded must be cleaned before gluing the LED strip lights.
It must be completely clean, grease-free and dust-free!

Diffusers

Homogeneous light without points from is possible 120 LEDs/m thanks to the opal white diffuser.
Points are visible with black version.
If required, please order alternative diffusers in black separately.

End cap

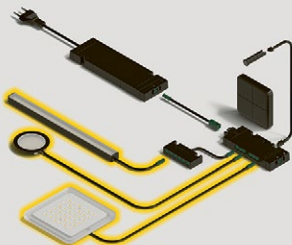
	Cat. No.
Black	833.95.775
Silver coloured	833.95.774

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Furniture light
Ceiling, wall light



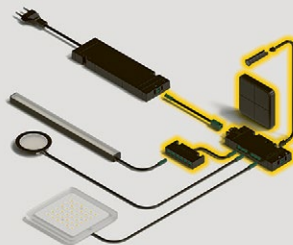
Controlling

Wireless

Sensors
Actors

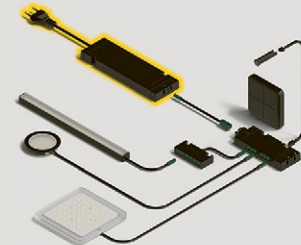
Wired

Sensors
Actors



Supplying

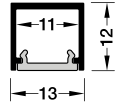
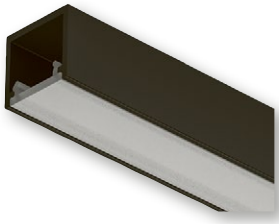
Drivers



Profile 2102

Profile for surface mounting

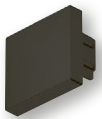
Pro



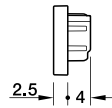
Profile 2102

Silver
colored

Black



End cap



> 60% recycled aluminum

Material:	Profile: aluminium, diffuser: polycarbonate
Internal width:	11 mm
Diffuser width:	11 mm
Light permeability	60–70%
Supplied with:	1 Aluminium profile 1 Diffuser opal white

Material:	Plastic
Equipment:	With drill mark for cable outlet
Supplied with:	5 Pairs of end caps



Profile 2102

Colour/finish

	2500 mm
Black, anodized, diffuser: opal white	833.72.756
Silver coloured, anodized, diffuser: opal white	833.72.757

Note

For LED strip lights up to 8 mm wide. Slide in the 10 mm wide clips from the side before installing the profile. The surface to be bonded must be cleaned before gluing the LED strip lights. It must be completely clean, grease-free and dust-free!

Diffusers

Homogeneous light without points from is possible 120 LEDs/m thanks to the opal white diffuser. Points are visible with black version. If required, please order alternative diffusers in black or transparent separately.

End cap

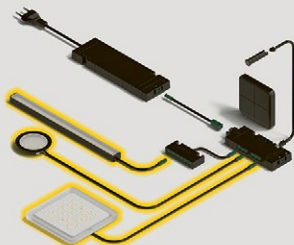
	Cat. No.
Black	833.95.778
Silver coloured	833.95.777

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Furniture light
Ceiling, wall light



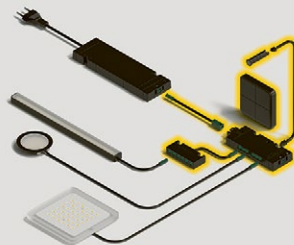
Controlling

Wireless

Sensors
Actors

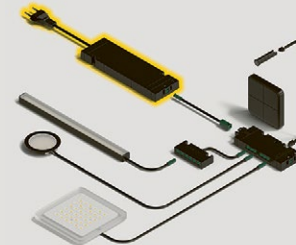
Wired

Sensors
Actors



Supplying

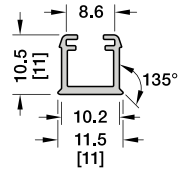
Drivers



Profile 1101

Profile for recess mounting

Plus



[Routing dimensions]



- > Simple installation by sliding in the LED strip
- > Can be recessed almost flush with the surface

Material:	Profile: Polycarbonate
Routing width:	11 mm
Routing depth:	11 mm
Supplied with:	1 Plastic profile



Colour/finish	Light permeability %	2500 mm	3000 mm
		Black	~20
White opal	60–70	833.95.800	833.72.898

Note

For LED strip lights up to max. 9.6 W/m.
 For LED strip lights with a width of precisely 8 mm.
 Please place clips outside profile.

Diffuser (integrated in profile)

Homogeneous light without points from is possible 120 LEDs/m thanks to the opal white diffuser.
 Points are visible with black version.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Furniture light
 Ceiling, wall light

Controlling

Wireless

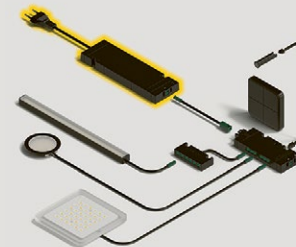
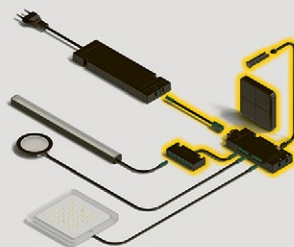
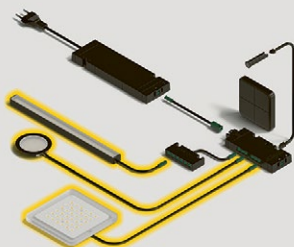
Sensors
 Actors

Wired

Sensors
 Actors

Supplying

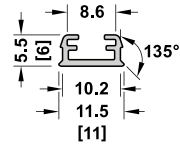
Drivers



Profile 1109

Profile for recess mounting

Plus



[Routing dimensions]

- > Low installation depth of 6 mm for groove mounting into centre panel at both sides
- > Ideal for COB strip lights

Material:	Profile: Polycarbonate
Routing width:	11 mm
Routing depth:	6 mm
Light permeability:	60–70%
Supplied with:	1 Plastic profile



Colour/finish

White opal

3000 mm

833.72.919

Note

For LED strip lights up to max. 9.6 W/m.
For LED strip lights with a width of precisely 8 mm.
Please position the clips outside profile, or use soldered leads.

Diffuser (integrated)

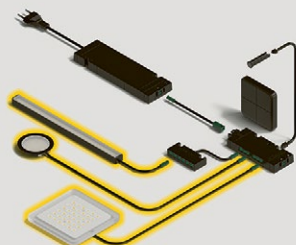
The low installation height is ideal for COB strip lights, since they do not depend on the installation height for illumination without visible LED points.
Identical profile for standard LED strip lights is profile 1101 with 11 mm routing depth.

Profile 1109 is recommended for COB LED strips.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
LED strips

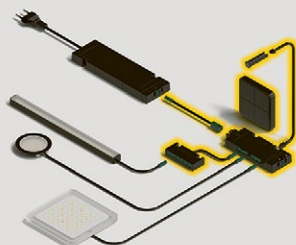
Furniture light
Ceiling, wall light



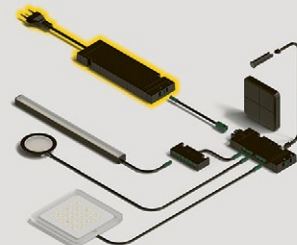
Controlling
Wireless

Sensors
Actors

Wired
Sensors
Actors

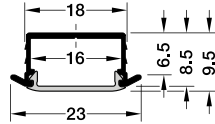


Supplying
Drivers

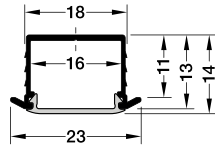


Profile 1190/1191

Profile for recess mounting

Plus


Profile 1190



Profile 1191



End cap (Profile 1190)



End cap (Profile 1191)

> Well suited for COB LED strips

Material:	Profile: Aluminium, diffuser: plastic
Diffuser width:	18 mm
Routing width:	18 mm
Supplied with:	1 Profile, 1 Diffuser

Material:	Plastic
Equipment:	With cable outlet
Supplied with:	1 Pairs of end caps

Profile

Colour/finish		2500 mm
	Profile 1190, routing depth 8.5 mm	
	Silver coloured, anodized, diffuser: opal white	833.72.844
	Profile 1191, routing depth 11 mm	
	Silver coloured anodized, diffuser: opal white	833.72.846

Note

For LED strip lights up to 10 mm wide.

End cap

End cap (profile 1190)	Cat. No.
Silver coloured	833.72.855
End cap (profile 1191)	
Silver coloured	833.72.854

Note

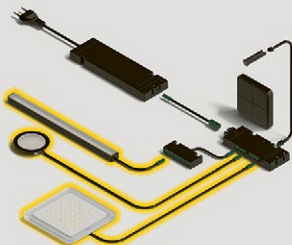
The surface on the aluminium profile that is to be bonded must be cleaned before bonding to the LED strip lights.
It must be completely clean, grease-free and dust-free!

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Furniture light
Ceiling, wall light



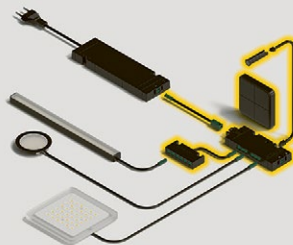
Controlling

Wireless

Sensors
Actors

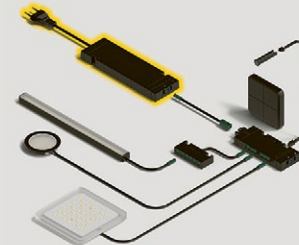
Wired

Sensors
Actors



Supplying

Drivers



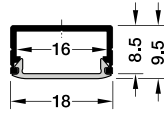
Profile 2190/Profile 2191

Profile for surface mounting

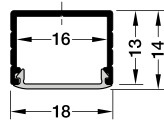
Plus



Profile 2190

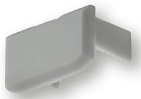


Profile 2191



> Well suited for COB LED strips

Material:	Profile: Aluminium, diffuser: Plastic
Internal width:	16 mm
Diffuser width:	18 mm
Mounting:	For screw fixing with a mounting clip



End cap (Profile 2190)



End cap (Profile 2191)

Material:	Plastic
Equipment:	With cable outlet
Supplied with:	1 Pair of end caps



Retaining clip 90°
(for Profiles 2190, 2191)



Retaining clip 40°
(for Profiles 2190, 2191)

Material:	Stainless steel
Mounting:	For screw fixing
Supplied with:	1 Pair of retaining clip

Profile

Colour/finish	2500 mm
Profile 2190, height 8.5 mm	
Silver coloured, anodized, Diffuser: opal white	833.72.840
Profile 2191, height 13 mm	
Silver coloured, anodized, Diffuser: opal white	833.72.841

Note

For LED strip lights up to 10 mm wide.

End cap

	Cat. No.
End cap (profile 2190)	
Silver coloured	833.72.852
End cap (profile 2191)	
Silver coloured	833.72.853

Retaining clip

Retaining clip 90° (for profiles 2190/2191)	
Stainless steel, silver coloured	833.74.832
Retaining clip 40° (for profiles 2190/2191)	
Stainless steel, silver coloured	833.74.833

Note

Max. spacing of mounting brackets is 500 mm.
The surface to be bonded must be cleaned before gluing the LED strip lights.
It must be completely clean, grease-free and dust-free!

Diffusers

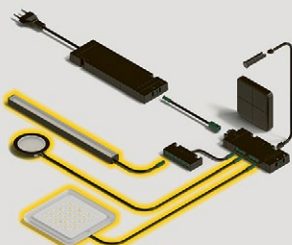
LED points are always visible when this profile 2190 is used.
For homogeneous light without points, please use COB strip.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting



LED strips

Furniture light
Ceiling, wall light



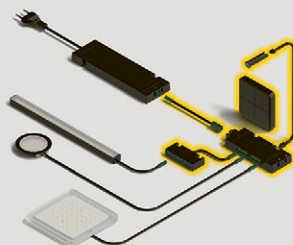
Controlling

Wireless

Sensors 
Actors 

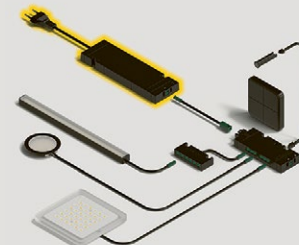
Wired

Sensors
Actors



Supplying

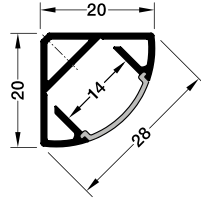
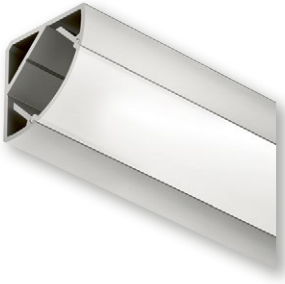
Drivers



Profile 2195

Corner profile

Plus



Profile 2195

Material:	Profile: Aluminium, Diffuser: Plastic
------------------	--

Internal width:	14 mm
------------------------	-------

Supplied with:	1 Aluminium profile 1 Diffuser
-----------------------	-----------------------------------



End cap

Material:	Plastic
------------------	---------

Equipment:	With cable outlet
-------------------	-------------------

Supplied with:	1 Pair of end cap
-----------------------	-------------------



Lateral support

Material:	Plastic
------------------	---------

Mounting:	For screw fixing
------------------	------------------

Supplied with:	1 Pair of lateral support
-----------------------	---------------------------



Mounting bracket

Material:	Stainless steel
------------------	-----------------

Mounting:	For screw fixing
------------------	------------------

Supplied with:	1 Pair of mounting clip
-----------------------	-------------------------

Profile 2195

Colour/finish

2500 mm

Silver coloured anodized, Diffuser: Opal white

833.74.812

End cap

Silver coloured

833.74.825

Lateral support

Silver coloured

833.74.825

Mounting bracket

Silver coloured

833.74.826

Note

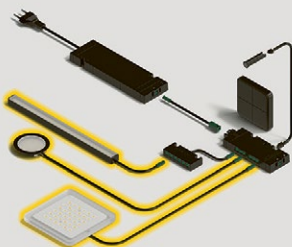
The surface to be bonded must be cleaned before gluing the LED strip lights. It must be completely clean, grease-free and dust-free!

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting



LED strips

Furniture light
Ceiling, wall light



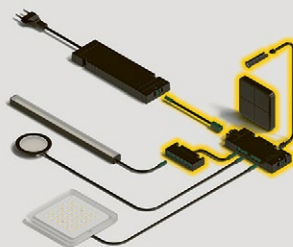
Controlling

Wireless

Sensors 
Actors 

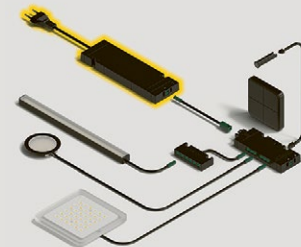
Wired

Sensors
Actors



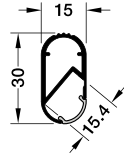
Supplying

Drivers



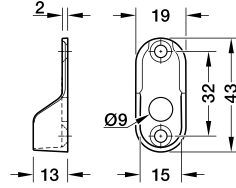
Profile 5105

Wardrobe rail, asymmetric light distribution

Plus


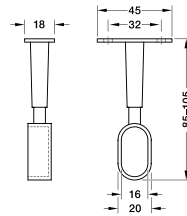
Profile 5105

Material:	Profile: Aluminium, Diffuser: Plastic
Internal width:	16 mm
Diffuser width:	10 mm
Supplied with:	1 Aluminium profile 2.5 m 1 Diffuser

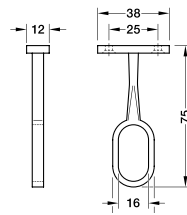


Lateral support

Material:	Zinc alloy
Installation:	For screw fixing
Supplied with:	1 Piece

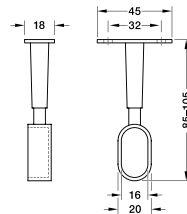


Lateral support height adjustable



Rail centre support

Material:	Zinc alloy
Installation:	For screw fixing
Supplied with:	1 Piece



Centre support with adjustable height

Profile 5105

Version	Finish/colour	Cat. No.
Diffuser: Frosted	Silver coloured anodized	833.72.790
Diffuser: Opal white		833.72.980

Lateral support

Rigid	Aluminium coloured, lacquered	803.33.757
With height adjustment	Aluminium coloured, lacquered	803.24.900

Rail centre support

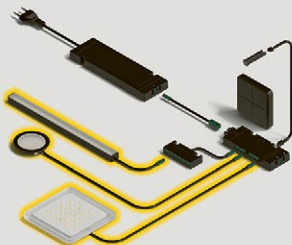
Rigid	Aluminium coloured, lacquered	802.07.900
With height adjustment	Aluminium coloured, lacquered	802.07.200

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting



LED strips

Furniture light
Ceiling, wall light



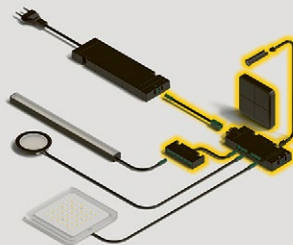
Controlling

Wireless

Sensors 
Actors 

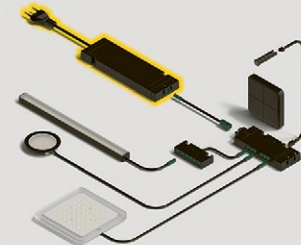
Wired

Sensors
Actors



Supplying

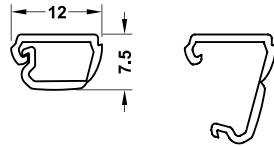
Drivers



Accessories

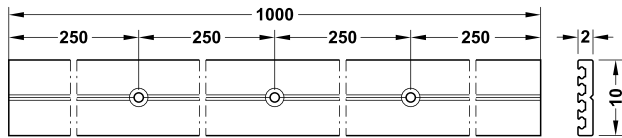
Plus

Cable channel, cooling strip, corner guide



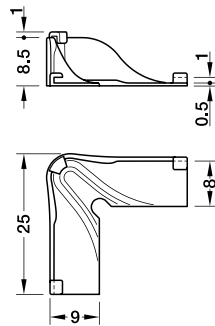
Cable channel

Area of application:	For concealing visible cables in furniture and cabinets
Material:	Plastic
Dim. (L x W x H):	2500 x 12 x 7.5 mm
Mounting:	For glue fixing
Supplied with:	1 Cable channel with adhesive tape



Cooling strip

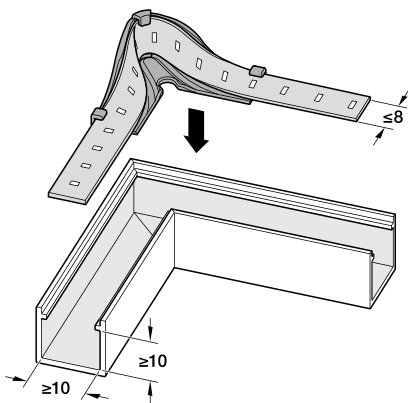
Area of application:	For heat dissipation of LED batten lights
Material:	Aluminium
Installation:	For screw fixing
Supplied with:	1 Aluminium profile



Corner guide

Area of application:	For routing LED strip lights in 90° aluminium profiles
Usable for:	LED strip lights up to 8 mm wide in profiles with internal width of min. 10 mm and internal height of min. 10 mm
Material:	Plastic
Colour/finish:	Transparent
Dim. (L x W x H):	25 x 25 x 9.5 mm
Installation reference:	Please note the installation instructions for bending the LED strip light.
Supplied with:	10 Corner guides

- > Bending instead of cutting makes it possible to create illuminated 90° frames without loss of light in the corners.
- > Patented solution



Use of corner guide

Cable channel

Colour/finish

Cat. No.

Jet black, RAL 9005
Pure white, RAL 9010

833.89.033
833.89.013

Note

The cable duct can only accommodate the cable.
There is no room for plugs.

Cooling strip

1000 mm

Aluminium coloured

833.77.700

Corner guide

Cat. No.

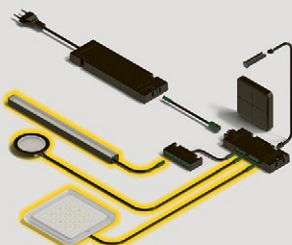
833.89.308

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips
Profiles

Furniture light
Ceiling, wall light



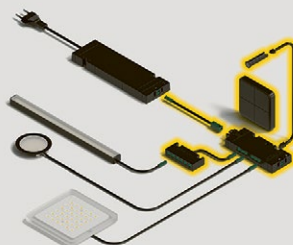
Controlling

Wireless

Sensors
Actors

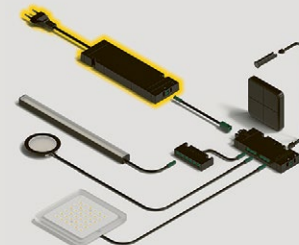
Wired

Sensors
Actors



Supplying

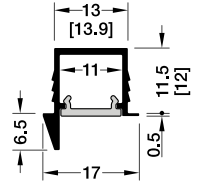
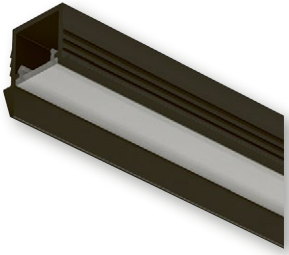
Drivers



Profile 1105

Profile for recess mounting

Pro

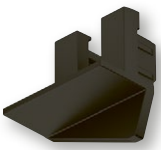


[Routing dimensions]

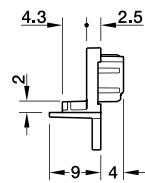
Profile 1105

Silver
colored

Black



End cap



- > Asymmetric light distribution allows for a glare-free light source.
- > 60 % recycled aluminum

Material:	Profile: Aluminium, Diffuser: Polycarbonate
Diffuser width:	11 mm
Routing width:	13.9 mm
Routing depth:	12 mm
Light permeability:	60–70 %
Supplied with:	1 Aluminium profile 1 Diffuser opal white

Material:	Plastic
Equipment:	With cable outlet
Supplied with:	5 Pairs of end caps



Profile 1105

Colour/finish	2500 mm	3000 mm
	Black, anodized, diffuser: opal white	833.94.104
Silver coloured, anodized, diffuser: opal white	833.94.105	833.95.726

Note

For LED strip lights up to 8 mm wide.
The surface to be bonded must be cleaned before gluing the LED strip lights.
It must be completely clean, grease-free and dust-free!
Delivery Time: 90-120 Days

Diffusers

Homogeneous light without points from is possible 120 LEDs/m thanks to the opal white diffuser.
Points are visible with black version.
If required, please order alternative diffusers in black or transparent separately.

End cap

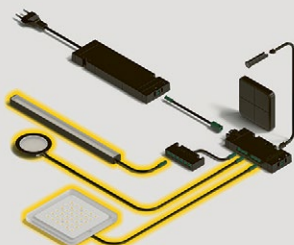
	Cat. No.
Black	833.95.771
Silver coloured	833.95.770

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Furniture light
Ceiling, wall light



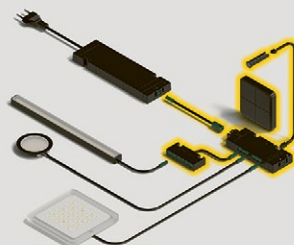
Controlling

Wireless

Sensors
Actors

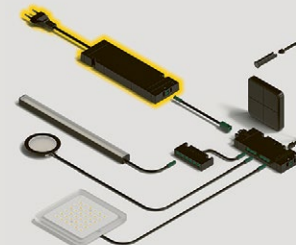
Wired

Sensors
Actors



Supplying

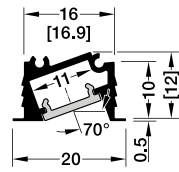
Drivers



Profile 1106

Profile for recess mounting

Pro

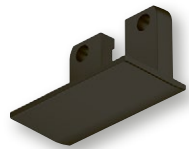


[Routing dimensions]

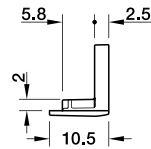
Profile 1106

Silver
colored

Black



End cap



- > 60 % recycled aluminum
- > Invisible light emission surface

Material:	Profile: Aluminium, Diffuser: Polycarbonate
Internal width:	11 mm
Diffuser width:	11 mm
Routing width:	16.9 mm
Routing depth:	12 mm
Mounting:	For recess mounting
Light permeability:	60-70 %
Supplied with:	1 Aluminium profile 1 Diffuser opal white

Material:	Plastic
Equipment:	With cable outlet
Mounting:	For screw fixing
Supplied with:	5 Pairs of end caps with screws



Profile 1106

Colour/finish	2500 mm	3000 mm
	Black, anodized, diffuser: opal white	833.94.107
Silver coloured, anodized, diffuser: opal white	833.94.106	833.95.728

Note

For LED strip lights up to 5 mm wide.
The surface to be bonded must be cleaned before gluing the LED strip lights.
It must be completely clean, grease-free and dust-free!
Delivery Time: 90-120 Days

Diffusers

Homogeneous light without points from is possible 120 LEDs/m thanks to the opal white diffuser.
Points are visible with black version.
If required, please order alternative diffusers in black or transparent separately.

End cap

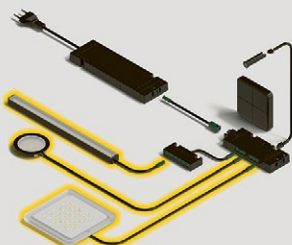
	Cat. No.
Black	833.95.773
Silver coloured	833.95.772

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Furniture light
Ceiling, wall light



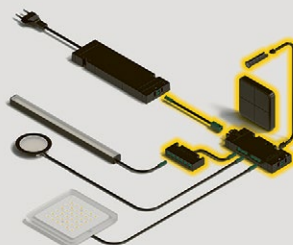
Controlling

Wireless

Sensors
Actors

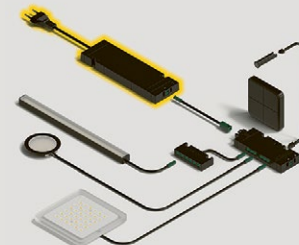
Wired

Sensors
Actors



Supplying

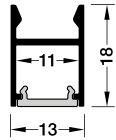
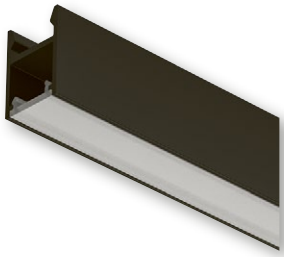
Drivers



Profile 2103

Profile for surface mounting

Pro



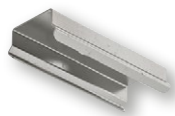
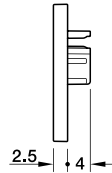
Profile 2103

Silver
colored

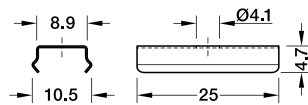
Black



End cap



Mounting bracket



- > 60% recycled aluminum
- > Easy installation with clips

Material:	Profile: aluminium, diffuser: polycarbonate
Version:	With concealed fixing
Internal width:	11 mm
Diffuser width:	11 mm
Mounting:	For screw fixing with mounting bracket
Light permeability	60–70%
Supplied with:	1 Aluminium profile 1 Diffuser opal white

Material:	Plastic
Equipment:	With drill mark for cable outlet
Supplied with:	5 Pairs of end caps

Material:	Stainless steel
Mounting:	For screw fixing
Supplied with:	5 Pairs of mounting brackets



Profile 2103

Colour/finish	2500 mm	3000 mm
	Black, anodized, diffuser: opal white	833.94.117
Silver coloured, anodized, diffuser: opal white	833.94.116	833.95.736

Note

For LED strip lights up to 8 mm wide. Slide in the 10 mm wide clips from the side before installing the profile. Max. spacing of mounting brackets is 500 mm.
The surface to be bonded must be cleaned before gluing the LED strip lights.
It must be completely clean, grease-free and dust-free!
Delivery Time: 90-120 Days

Diffusers

Homogeneous light without points from is possible 120 LEDs/m thanks to the opal white diffuser. Points are visible with black version.
If required, please order alternative diffusers in black or transparent separately.

End cap

	Cat. No.
Black	833.95.784
Silver coloured	833.95.783

Mounting bracket

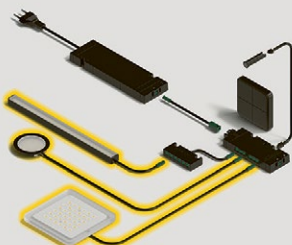
	833.95.761
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Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Furniture light
Ceiling, wall light



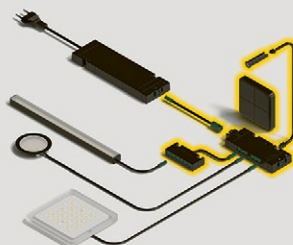
Controlling

Wireless

Sensors
Actors

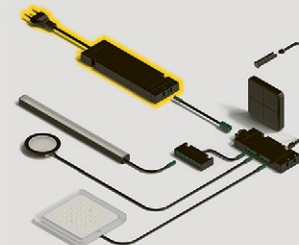
Wired

Sensors
Actors



Supplying

Drivers

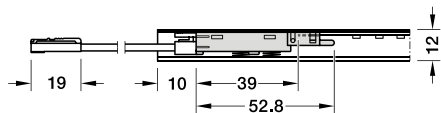


Inline sensor switch Modular

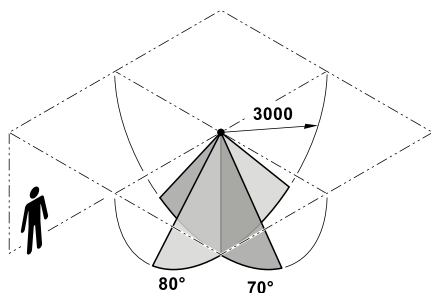
Pro



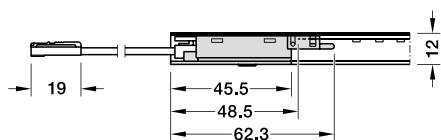
Dimmer switch



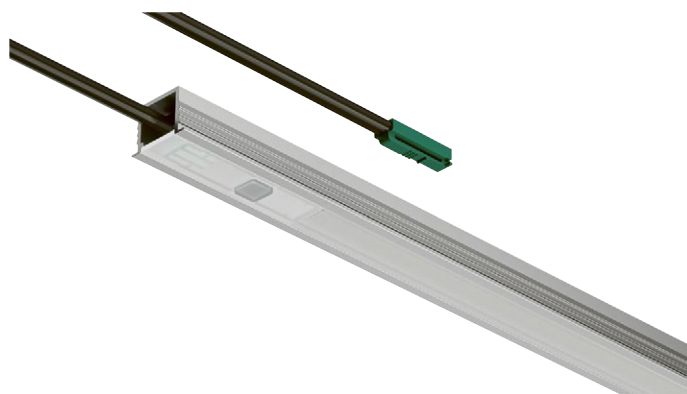
Motion detector



Sensor range



Application dimmer switch



Application motion detector

> Concealed installation beneath the diffuser (dimmer switch)

Area of application:	For monochrome 8 mm LED strip lights in aluminium profiles
usable for:	Profile 1103, profile 1105, Profile 2101, profile 2102, profile 2103
Switching function:	Gentle on/off, dimming
Memory function:	Yes
Material:	Plastic
Mounting:	For inserting into aluminium profile
Connection:	Integrated clip
Supplied with:	1 Dimmer

Motion detector	
Colour/finish:	Opal
Sensor range:	3000 mm
Horizontal sensor angle:	80°
Vertical sensor bracket:	70°
Connection:	Integrated clip
Supplied with:	1 Motion detector

Dimmer switch

Wattage capacity W	Cat. No.
120	833.89.291

Note

Dimming range 5% – 100%, dimming level retained after switching off (memory function).
In the currentless condition.
Delivery Time: 90-120 Days

Installation reference

Usable for other aluminium profiles with similar clear internal height to the specified models (approx. 12–14 mm).
No diffuser shortening required, since the diffuser covers the dimmer.

Motion detector

Wattage capacity W	Delay time s	Cat. No.
120	60	833.89.292
	180	833.89.293
	300	833.89.294

Installation reference

Shorten diffuser by 45.5 mm.

Lead

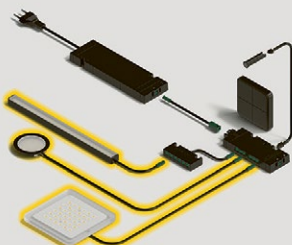
Length m	Cat. No.
1.0	833.95.836
2.0	833.95.835

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

Profile 1103
Profile 1105
Profile 2101
Profile 2102
Profile 2103
LED strips

Furniture light
Ceiling, wall light



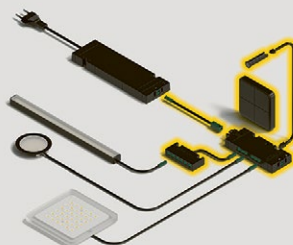
Controlling

Wireless

Sensors
Actors

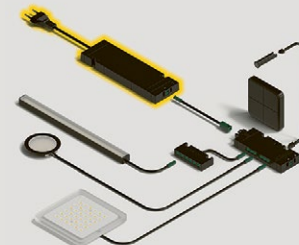
Wired

Sensors
Actors

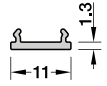
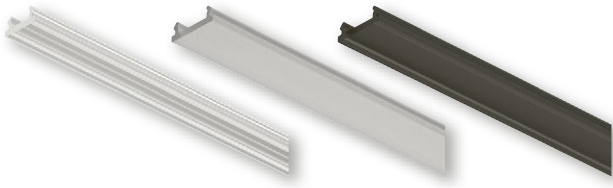


Supplying

Drivers

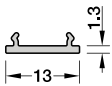
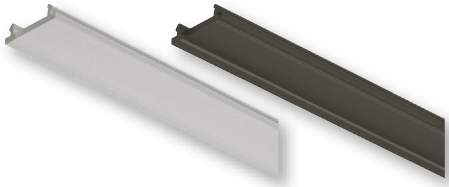


Diffuser

Pro**Width 11 mm**

Material:	Polycarbonate
------------------	---------------

Supplied with:	1 Diffuser
-----------------------	------------

Width 13 mm

Material:	Polycarbonate
------------------	---------------

Supplied with:	1 Diffuser
-----------------------	------------

Diffuser colour/finish	Light permeability %		
		2500 mm	3000 mm
Transparent	~ 90	833.95.807	833.95.757
Opal	60–70	833.95.805	833.95.755
Black	~ 20	833.95.809	833.95.759

Note
Delivery Time: 90-120 Days

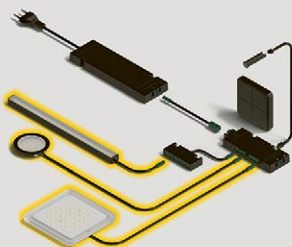
Opal	60–70	833.95.806	833.95.756
Black	~ 20	833.95.810	833.95.760

Note
Homogeneous light without points from is possible 120 LEDs/m thanks to the opal white diffuser. Points are visible in the black and transparent version.
Delivery Time: 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

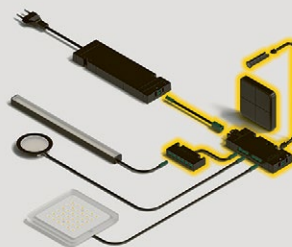
LED strips
Profiles
Furniture light
Ceiling, wall light



Controlling

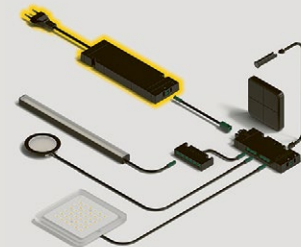
Wireless 
Sensors 
Actors 

Wired
Sensors
Actors



Supplying

Drivers



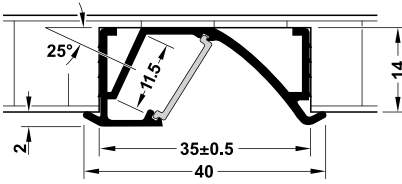
Profile 1193

Profile for recess mounting

Plus



Profile 1193



End cap

Material:	Profile: aluminium, diffuser: plastic
Area of application:	For panel thickness from 16 mm
Mounting:	For recess mounting
Supplied with:	1 Profile, 1 Diffuser

Material:	Plastic
Equipment:	With cable outlet
Supplied with:	1 Pair of end caps

Profile 1193

Version	Length mm	Material	Finish/colour	Cat. No.
Diffuser opal white	2500	Aluminium	Silver coloured anodized	833.72.990

Note

For LED strip lights up to 10 mm wide.
Delivery Time: 90-120 Days

End cap

Finish/colour	Cat. No.
Silver coloured	833.74.848

Note

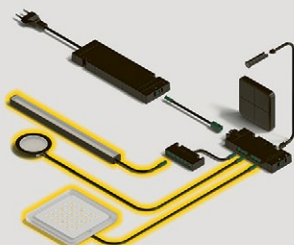
Delivery Time: 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Furniture light
Ceiling, wall light



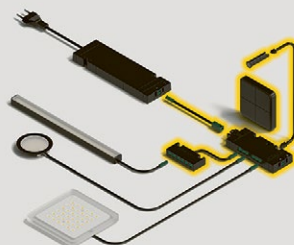
Controlling

Wireless

Sensors
Actors

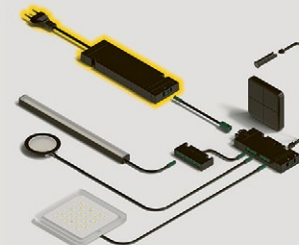
Wired

Sensors
Actors



Supplying

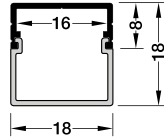
Drivers



Profile 2192

Profile for surface mounting

Plus



Profile 2192

Version:	With surface mounted diffuser
Material:	Profile: Aluminium, diffuser: Plastic
Internal width:	16 mm
Diffuser width:	18 mm
Supplied with:	1 Profile, 1 Diffuser



End cap, straight-edged



End cap, round

Material:	Plastic
Equipment:	With cable outlet
Supplied with:	1 Pair of end caps

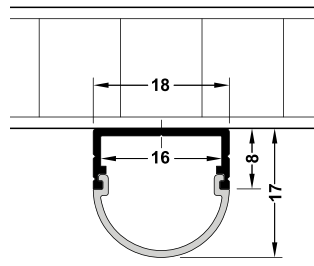
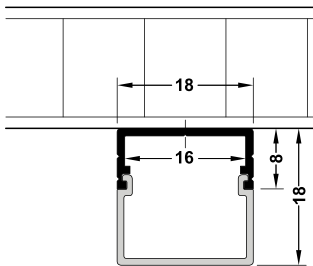


Retaining clip 90°



Retaining clip 40°

Material:	Stainless steel
Mounting:	For screw fixing
Supplied with:	1 Pair of retaining clip



Profile 2192

Version	Length mm	Finish/colour	Cat. No.
Diffuser opal white, straight-edged	2500	Silver coloured anodized	833.72.988
Diffuser opal white, round			833.72.989

End cap

Straight-edged, with cable outlet	–	Silver coloured	833.74.823
Round, with cable outlet			833.74.824

Retaining clip

90°	22	Silver coloured	833.74.832
40°			833.74.833

Note

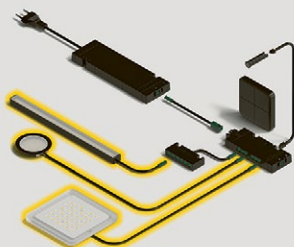
Max. spacing of mounting brackets is 500 mm.
 The surface to be bonded must be cleaned before gluing the LED strip lights.
 It must be completely clean, grease-free and dust-free!
 Delivery Time: 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Furniture light
 Ceiling, wall light



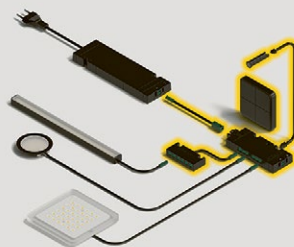
Controlling

Wireless

Sensors
 Actors

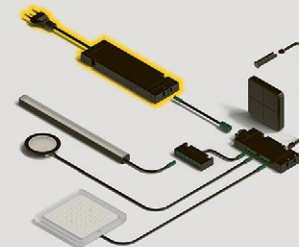
Wired

Sensors
 Actors



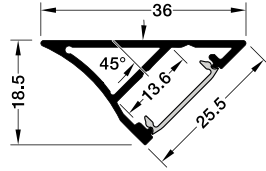
Supplying

Drivers



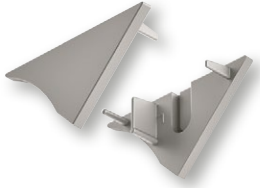
Profile 2193

Profile for surface mounting

Plus


Profile 2193

Material:	Profile: Aluminium, Diffuser: Plastic
Internal width:	13.6 mm
Diffuser width:	16 mm
Supplied with:	1 Aluminium profile 1 Diffuser



End cap

Material:	Plastic
Equipment:	With cable outlet
Supplied with:	1 Pair

Profile 2193

Colour/finish

2500 mm

Silver coloured anodized, Diffuser: opal white

833.72.986

Note

Delivery Time: 90-120 Days

End cap

Cat. No.

Silver coloured

833.74.899

Note

The surface on the aluminium profile that is to be bonded must be cleaned before bonding to the LED strip lights.

It must be completely clean, grease-free and dust-free!

Delivery Time: 90-120 Days

Diffusers

LED points are always visible when this profile is used.

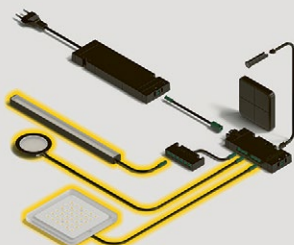
For homogeneous light without points, please use COB strip.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting



LED strips

Furniture light
Ceiling, wall light



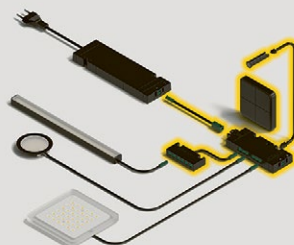
Controlling

Wireless

Sensors 
Actors 

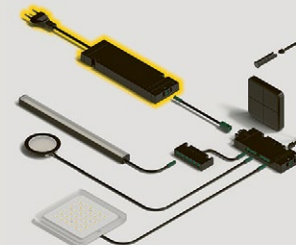
Wired

Sensors
Actors



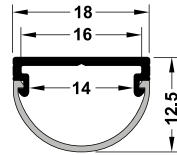
Supplying

Drivers



Profile 2194 Drawer profile

Plus



Profile 2194

Material: Profile: Aluminium,
Diffuser: Plastic

Internal width: 16 mm

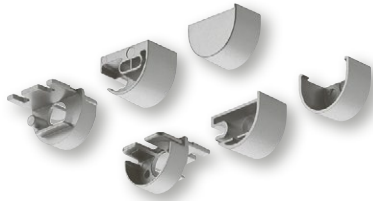
Diffuser width: 18 mm

Supplied with: 1 Aluminium profile,
1 Diffuser

Equipment: For different mounting options

Material: Plastic

Supplied with: 5 sets, each with 3 pairs of end caps



End cap set

Material: Stainless steel

Mounting: For screw fixing

Supplied with: 1 Pair of mounting clip

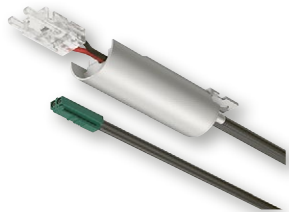


Mounting bracket

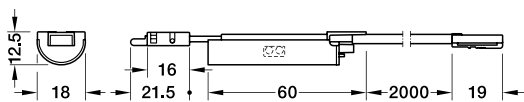
Type: LED strip light 8 mm monochrome

Material: Plastic

Mounting: For plugging in, for screw fixing



Door sensor switch



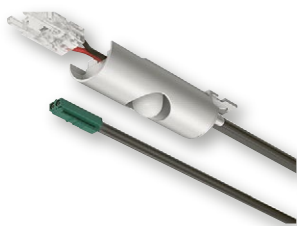
Type: LED strip light 8 mm monochrome

Material: Plastic

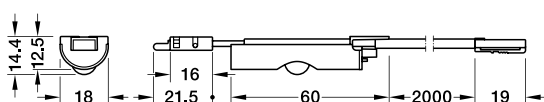
Sensor range: 0-3000 mm

Delay time: 30 sec.

Mounting: For plugging in, for screw fixing



Motion detector



Profile 2194

Length mm	Colour/finish	2500 mm
2500	Silver coloured anodized, Diffuser: opal white	833.74.835

Note
For LED strip lights up to 10 mm wide.
Delivery Time: 90-120 Days

End cap set

Colour/finish	Cat. No.
Silver coloured	833.74.877

Note
Delivery Time: 90-120 Days

Mounting bracket

Silver coloured	833.74.893
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Note
Delivery Time: 90-120 Days

Door sensor switch

Switching capacity W	Cat. No.
120	833.89.253

Note
Delivery Time: 90-120 Days

Motion detector

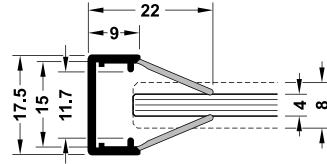
120	833.89.254
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Note
Delivery Time: 90-120 Days

Profile 5108

Glass edge protection profile

Plus



- > For manufacturing individual glass edge lighting.
- > Effect of the glass edge on the light:
 - Glass edge with satin finish = even light line
 - Clear glass edge = point light

Material:	Profile: Plastic, Diffuser: Plastic
For glass thickness:	4–8 mm
Internal width:	15 mm
Installation:	For clipping on
Supplied with:	1 Glass edge profile

Colour/finish

2000 mm

Silver coloured, Diffuser: Milky

833.74.733

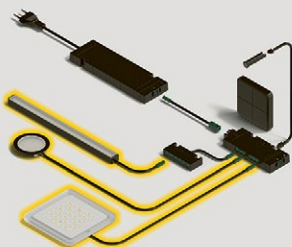
Note

Only for LED strip lights with max. 9.6 W/m and up to 10 mm wide.
Without load bearing function.
The surface to be bonded must be cleaned before gluing the LED strip lights.
It must be completely clean, grease-free and dust-free!
It is recommended to frost the rear glass edge for improved light distribution.
Delivery Time: 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
LED strips

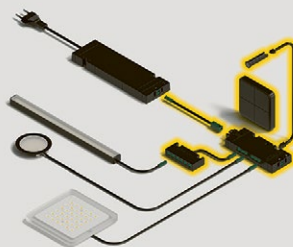
Furniture light
Ceiling, wall light



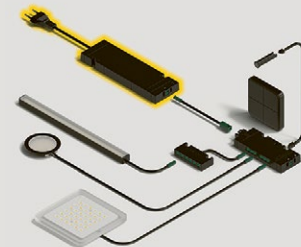
Controlling
Wireless

Sensors
Actors

Wired
Sensors
Actors

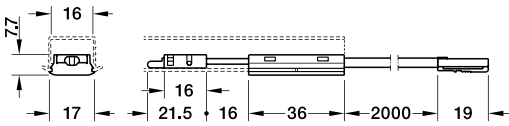
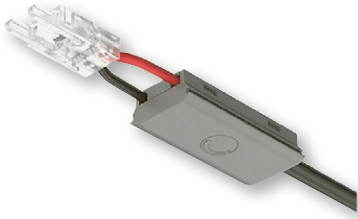


Supplying
Drivers

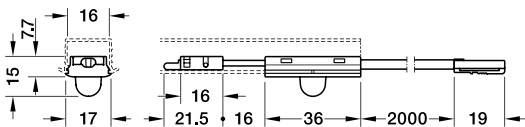
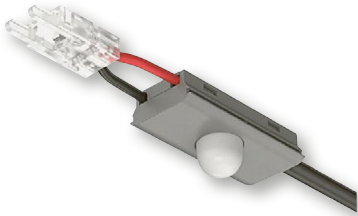


Inline sensor switch

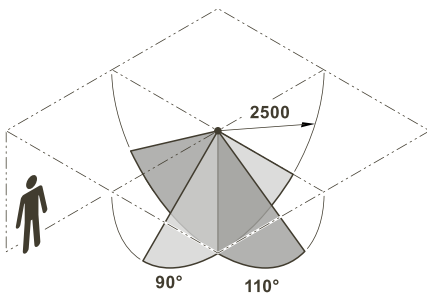
Plus



Dimmer switch



Motion detector



Sensor range

> suits profiles 1190, 1191, 2190, 2191

Switching function:	Soft on/off, dimming
Memory function:	Yes
Material:	Plastic
Colour/finish:	Silver coloured
Outlet:	1 x clip, LED strip light 8 mm monochrome
Dim. (L x W x H):	36 x 17 x 7.7 mm
Cable length:	2000 mm
Installation:	For push fitting
Supplied with:	1 Switch with clip/plug with 2 m lead

Switching function:	Automatic on/off
Memory function:	No
Material:	Plastic
Colour/finish:	Silver coloured
Outlet:	1 x clip, LED strip light 8 mm monochrome
Dim. (L x W x H):	36 x 17 x 15 mm
Sensor range:	0–2500 mm
Delay time:	30 sec.
Horizontal sensor angle:	90°
Vertical sensor bracket:	110°
Cable length:	2000 mm
Installation:	For push fitting
Supplied with:	1 Switch with clip/plug with 2 m lead

Dimmer switch

Wattage capacity
W

120

Cat. No.
833.77.836

Note

For LED strip lights up to 8 mm wide.
Delivery Time: 90-120 Days

Motion detector

120

833.77.836

Note

For LED strip lights up to 8 mm wide.
Delivery Time: 90-120 Days

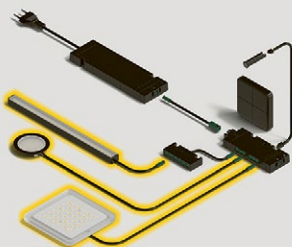
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips

Profiles

Furniture light
Ceiling, wall light



Controlling

Wireless

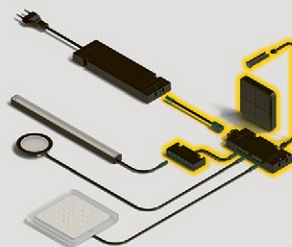
Sensors

Actors

Wired

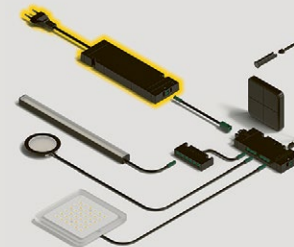
Sensors

Actors



Supplying

Drivers



Diffuser

Plus

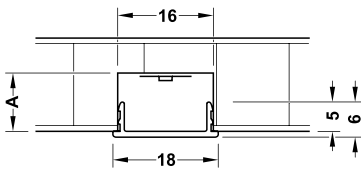


Diffuser

Usable for:	Profiles with internal dimension of 16 mm
Material:	Plastic
Mounting:	For push fitting



Material:	Plastic
Mounting:	For recess mounting
Width:	18 mm
Supplied with:	1 Diffuser



Diffuser

A = Minimum depth 10 mm for invisible LED points,
with LED strip lights from 120 LEDs/m

Diffuser

Colour/finish

2500 mm

Frosted	833.74.780
Milky	833.74.781

Simple replacement of existing diffusers in order to switch from frosted to milky, for example.

Note:

Cannot be used for the following aluminium profiles:

833.72.987, 833.72.988, 833.72.989 or for aluminium profiles with cured diffusers.

Delivery Time: 90-120 Days

Diffuser

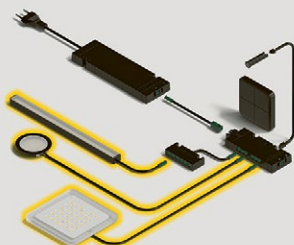
Milky	833.74.794
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Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

LED strips
Profiles

Furniture light
Ceiling, wall light



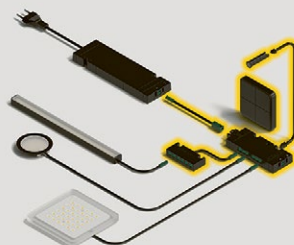
Controlling

Wireless

Sensors
Actors

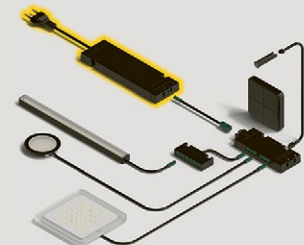
Wired

Sensors
Actors



Supplying

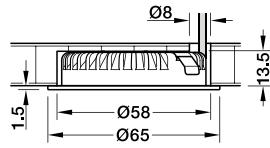
Drivers



LED 3094

Recess mounted light, drill hole Ø: 58 mm, IP44 (recess mounted light);
IP20 (surface mounted downlight)

Plus 



Chrome
colored



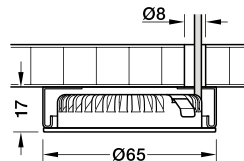
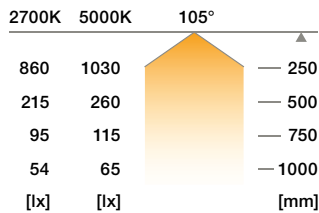
Black



White



Stainless
steel
colored



Surface mounting



Chrome
colored



Black



White



Nickel
colored

- > Large light-emitting surface
- > Homogeneous appearance
- > Good price-performance ratio

Dimmable:	Yes
Area of application:	Display cabinets, shelves
Housing material:	Aluminium
Diffuser material:	Plastic
Other housing features:	Plastic panel
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	4
Life time:	L80/B10 >30,000 hrs L70/B50 >50,000 hrs
Mounting:	Drilling in and clamping
Drill hole Ø:	58 mm
Cable length:	2000 mm
Supplied with:	1 Light with lead and mounting material

Material:	Steel
Mounting:	Screw fixing
Supplied with:	1 Housing for surface mounted downlight, round



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Chrome coloured	Stainless steel coloured	Black	White
2700	2.5	140	56	833.75.320	833.75.546	833.75.324	833.75.328
3000		160	64	833.75.321	833.75.547	833.75.325	833.75.329
4000		165	66	833.75.322	833.75.548	833.75.326	833.75.330
5000		175	70	833.75.323	833.75.549	833.75.327	833.75.331

Surface mounting

Chrome coloured	Stainless steel coloured, nickel plated	Black	White
833.72.809	833.72.528	833.72.806	833.72.807

Note

Degree of protection with surface mounted housing is IP20

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

Linear light
Ceiling, wall light

Controlling

Wireless

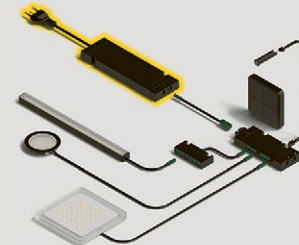
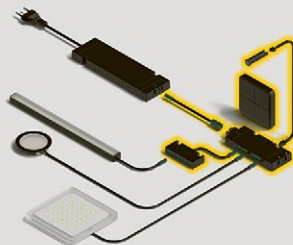
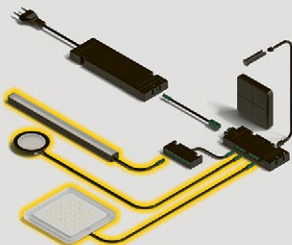
Sensors
Actors

Wired

Sensors
Actors

Supplying

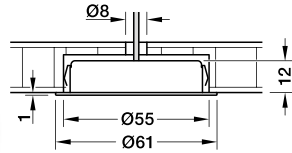
Drivers



LED 3112/LED 3113/LED 3114

Recess mounted light drill hole Ø: 55 mm, IP20

Plus 



Recess mounting



Silver colored



Black



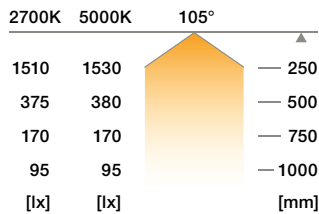
Chrome colored



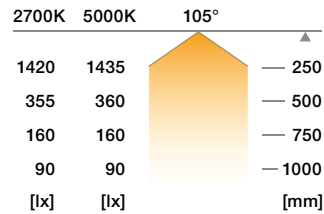
Stainless steel colored

- › High-quality metal housing
- › Wide range of colours and finishes
- › Homogeneous illumination

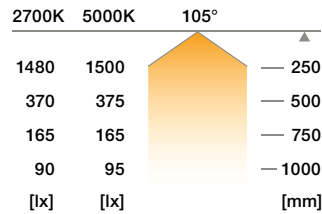
Dimmable:	Yes
Area of application:	Display cabinets, shelves
Material:	Housing: Aluminium Diffuser: Plastic
Colour rendering index Ra:	92
Colour rendering index R9:	>50
Number of LEDs:	12
Life time:	L80B10 >30,000 hrs L70B50 >50,000 hrs
Installation:	For mounting in drilled hole and clamp fixing or screw fixing
Drill hole Ø:	55 mm
Cable length:	2000 mm
Supplied with:	1 Light with cable



LED 3112

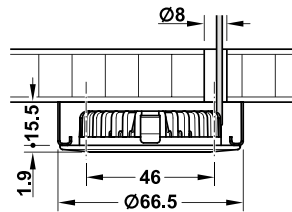


LED 3113



LED 3114

Surface mounted housing



Surface mounting

Material:	Steel
Mounting:	Screw fixing
Supplied with:	Surface mounted housing



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Stainless steel coloured	Silver coloured	Chrome plated, polished	Black
2700	3.0	210	70	833.75.435	833.75.445	833.75.485	833.75.495
3000		220	73	833.75.436	833.75.446	833.75.486	833.75.496
4000		230	76	833.75.437	833.75.447	833.75.487	833.75.497
5000		240	80	833.75.438	833.75.448	833.75.488	833.75.498

**Tunable white
(2-wire technology)**



2700–5000	3.0	210–240	70–80	833.75.439	833.75.449	833.75.489	833.75.499
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Note
Delivery Time: 90-120 Days

Surface mounted housing

				833.72.804	833.72.803	833.72.802	833.72.801
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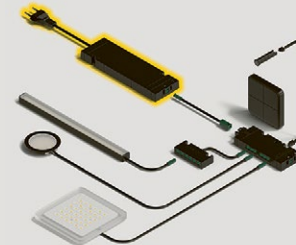
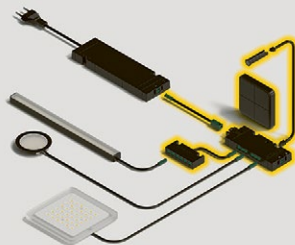
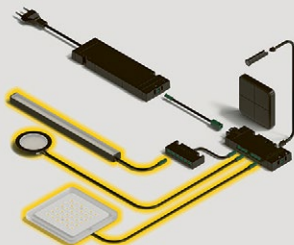
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless
Sensors
Actors

Wired
Sensors
Actors

Supplying
Drivers



LED 3090


Light module 24 V, 1.2 W, drill hole Ø: 26 mm, IP45

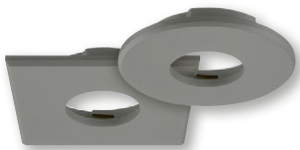
Pro 



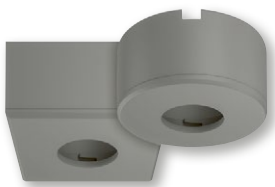
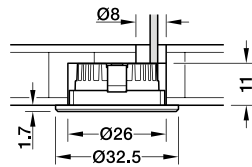
- > Narrow beam angle for staging objects
- > Suitable for mini concealed hinge drill hole Ø 26 mm

Dimmable:	Yes
Area of Application:	Kitchen and living room furniture, display cabinets
Housing material:	Aluminium
Colour rendering index Ra:	>90
Colour rendering index R9:	>60
Number of LEDs:	1
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Mounting:	For mounting in drilled hole and clamp fixing or screw fixing
Cable length:	2000 mm
Supplied with:	1 Light module with lead 2 m

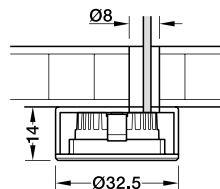
2700K	5000K	55°	
825	940		— 250
220	245		— 500
95	105		— 750
50	60		— 1000
[lx]	[lx]		[mm]



Recess mounted housing

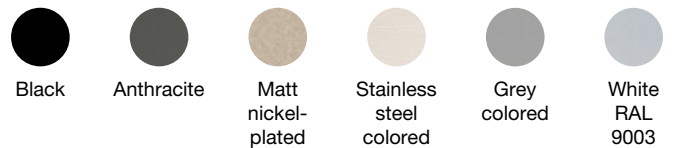


Surface mounted housing



Material:	Plastic
Mounting:	Drilling in and clamping

Material:	Plastic
Mounting:	For screw fixing

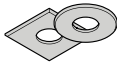


Monochrome

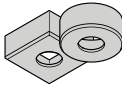


Colour temperature K	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700	75	63	833.75.170
3000	80	67	833.75.171
4000	80	67	833.75.172
5000	85	71	833.75.173

Recess mounted housing



Surface mounted housing



Colour/finish	Round	Square
Recess mounted housing		
Black	833.89.225	833.89.232
Anthracite	833.89.226	833.89.233
Matt, nickel plated	833.89.223	833.89.230
Stainless steel coloured	833.89.228	833.89.235
Grey	833.89.222	833.89.229
White	833.89.224	833.89.231
Surface mounted housing		
Black	833.89.239	833.89.246
Stainless steel coloured	833.89.242	833.89.249

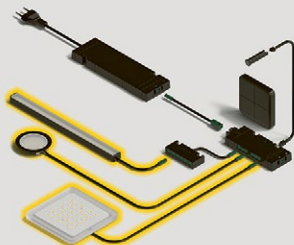
Note

The IP45 degree of protection is reduced to IP20 when using a surface mounted housing.


Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

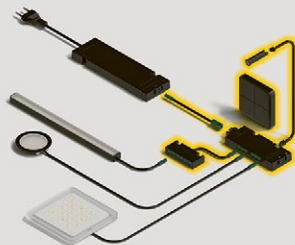
Linear light
Ceiling, wall light



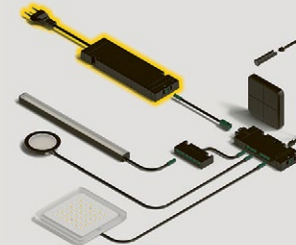
Controlling

Wireless 
Sensors 
Actors 

Wired
Sensors
Actors



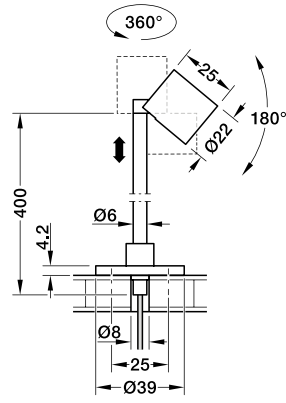
Supplying Drivers



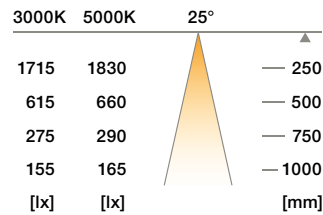
LED 3095/LED 3096



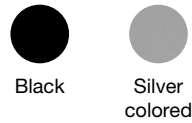
LED 3095 surface mounted light



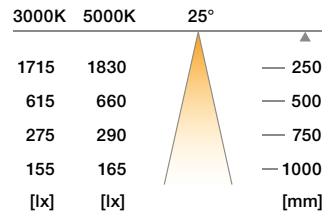
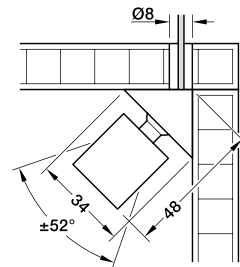
Height 400 mm and 50 mm



LED 3095



LED 3096 Surface mounted downlight



LED 3096



> Durable optical and mechanical components
> Narrow refraction angle for clear accentuation

Dimmable:	Yes
Area of Application:	Focused light for objects in shops, museums
Housing material:	Aluminium
Number of LEDs:	1
Life time:	L80/B10 50,000 hrs L70/B50 80,000 hrs
Colour rendering index Ra:	90
Colour rendering index R9:	>70
Degree of protection:	IP20
Supplied with:	1 Light with lead and mounting material

Swivelling range of x-axis:	360°
Swivelling range of y-axis:	180°
Installation:	For recess mounting and screw fixing

Swivelling range of x-axis:	55°
Swivelling range of y-axis:	55°
Installation:	For glue fixing, for screw fixing



LED 3095



LED 3096

Monochrome



Colour temperature K	Luminous flux lm	Wattage W	Luminous efficiency lm/W	Black, matt	Silver coloured
LED 3095 height: 400 mm					
3000	108	1.4	77	833.77.300	833.77.305
4000	118		84	833.77.301	833.77.306
5000	125		89	833.77.302	833.77.307
LED 3095 height: 50 mm					
3000	108	1.4	77	833.77.310	833.77.315
4000	118		84	833.77.311	833.77.316
5000	125		89	833.77.312	833.77.317

Note

The 400 mm version and the 50 mm version are height adjustable.

Monochrome



LED 3096					
3000	108	1.4	77	833.77.320	833.77.325
4000	118		84	833.77.321	833.77.326
5000	125		89	833.77.322	833.77.327

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

Linear light
Ceiling, wall light

Controlling

Wireless

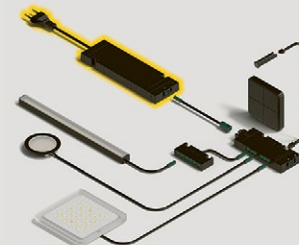
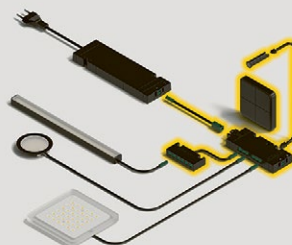
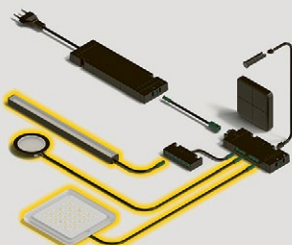
Sensors
Actors

Wired

Sensors
Actors

Supplying

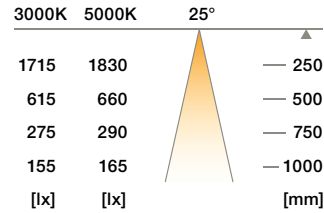
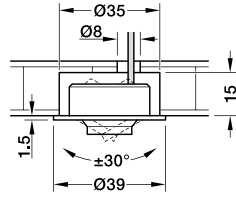
Drivers



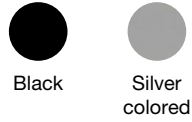
LED 3097/LED 3098



LED 3097 recess mounted light



LED 3097



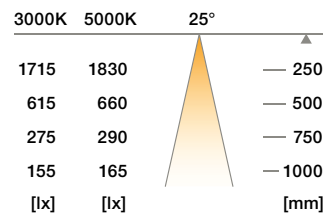
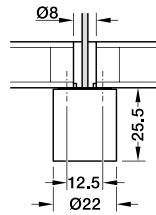
- > Durable optical and mechanical components
- > Narrow refraction angle for clear accentuation

Dimmable:	Yes
Area of Application:	Focused light for objects in shops, museums
Housing material:	Aluminium
Number of LEDs:	1
Life time:	L80/B10 50,000 hrs L70/B50 80,000 hrs
Colour rendering index Ra:	90
Colour rendering index R9:	>70
Degree of protection:	IP20
Supplied with:	1 Light with lead and mounting material

Features:	Swivelling
Swivelling range of z-axis:	60°
Installation:	Drilling in and clamping
Drill hole Ø:	35 mm



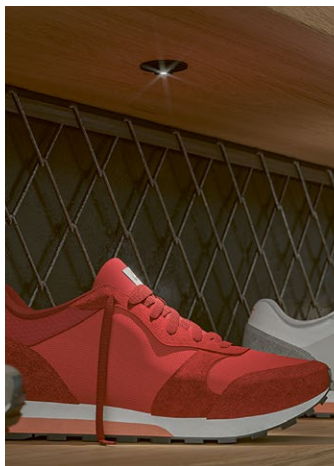
LED 3098 Surface mounted downlight



LED 3098



Diameter:	22 mm
Height:	26 mm
Installation:	For screw fixing



LED 3097



LED 3098

Monochrome



Colour temperature K	Luminous flux lm	Wattage W	Luminous efficiency lm/W	Black, matt	Silver coloured
LED 3097					
3000	108	1.4	77	833.77.330	833.77.335
4000	118		84	833.77.331	833.77.336
5000	125		89	833.77.332	833.77.337

Monochrome



LED 3098					
3000	108	1.4	77	833.77.340	833.77.345
4000	118		84	833.77.341	833.77.346
5000	125		89	833.77.342	833.77.347

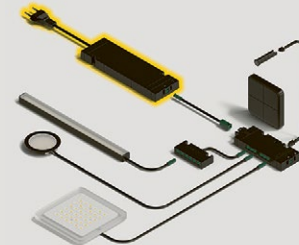
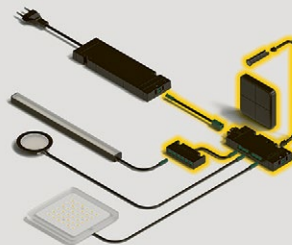
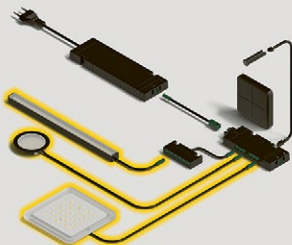
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless
Sensors
Actors

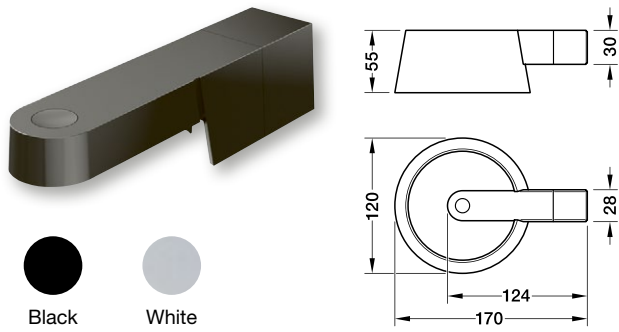
Wired
Sensors
Actors

Supplying
Drivers

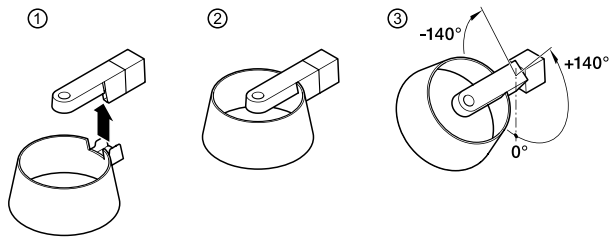


LED 3111

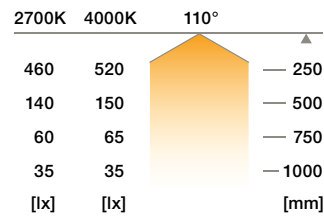
Bedside light/reading light, IP20

Pro 


Version with integrated push button and USB-C charging station



- 1 = Lamp shade and light plugged together.
- 2 = Fixed connection. Clip cabinet connector can be opened with slotted screwdriver.
- 3 = Rotatable by $\pm 140^\circ$ for fitting the concealed screws and for light deflection.



Lamp shade

- > Light module and lamp shades can be combined in different colours
- > Swivelling range of $\pm 140^\circ$
- > With optional integrated push button and integrated USB-C charging station

Dimmable:	Yes
Area of application:	Reading light
Material:	Light: zinc alloy Lamp shade: Plastic
Dim. (L x W x H):	124 x 28 x 30 mm
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	1
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Mounting:	For screw fixing
Installation reference:	Always connect to continuous current with integrated push button
Supplied with:	1 Light module

Dimensions (Ø x H):	120 x 55 mm
Supplied with:	1 Lamp shade



Monochrome



Light housing colour	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Black	White
Light module with integrated push button switch (on/off/dimming) and USB-C charging station 5 V/1 A						
Black	2700	7.5	105	52	833.77.580	–
	3000		110	55	833.77.581	–
	4000		120	60	833.77.582	–
White	2700	7.5	130	65	–	833.77.570
	3000		135	67	–	833.77.571
	4000		150	75	–	833.77.572
Light module for external switch/control						
Black	2700	2	105	52	833.77.583	–
	3000		110	55	833.77.584	–
	4000		120	60	833.77.585	–
White	2700	2	130	65	–	833.77.573
	3000		135	67	–	833.77.574
	4000		150	75	–	833.77.575

Order reference

Lamp shade and the modular lead not included in scope of delivery, please order separately.

Lamp shade

	Matt black	Amber coloured, matt	White, matt
For black light module	833.77.591	833.77.592	833.77.595
For white light module	833.77.594	833.77.593	833.77.590

Order reference

Light module not included in scope of delivery, please order separately.
The clip cabinet connector of the lamp shade covers the underside of the light module at the same time.

Please order modular lead (833.95.791) separately.

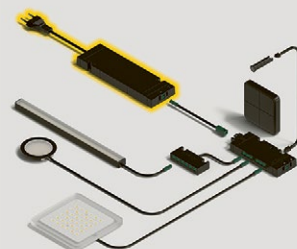
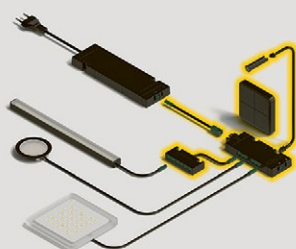
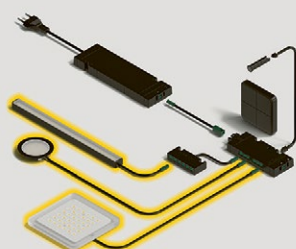
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless ⓘ
Sensors ⓘ
Actors ⓘ

Wired
Sensors
Actors

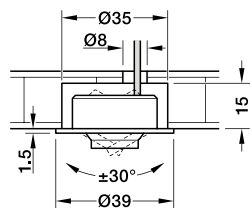
Supplying
Drivers



LED 3197

Recess mounted light, drill hole Ø: 35 mm, IP20

Pro 




Black



Silver colored

- ▷ Narrow beam angle
- ▷ Adjustable
- ▷ Swivel

Dimmable:	Yes
Area of application:	Focused light for objects in shops, museums
Material:	Aluminium
Features:	Swivelling
Swivelling range of z-axis:	60°
Colour rendering index Ra:	>90
Colour rendering index R9:	>70
Number of LEDs:	1
Life time:	L80/B10 >50,000 hrs L70/B50 >30,000 hrs
Drill hole Ø:	35 mm
Degree of protection:	IP20
Installation:	Drilling in and clamping
Cable length:	2000 mm
Supplied with:	1 Light with lead and mounting material

2700K	5000K	25°	
2950	4400		— 250
600	970		— 500
240	370		— 750
125	210		— 1000
[lx]	[lx]		[mm]



**Tunable white
(2-wire technology)**



Colour temperature K	Luminous flux lm	Wattage W	Luminous efficiency lm/W	Matt black	Silver coloured
2700-5000	95-110	1.4	67-78	833.77.351	833.77.350

Note

Delivery Time: 90-120 Days

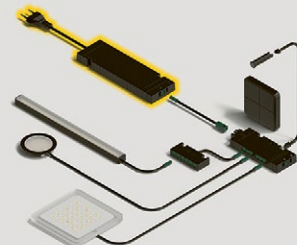
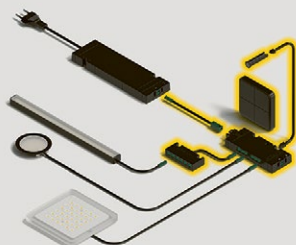
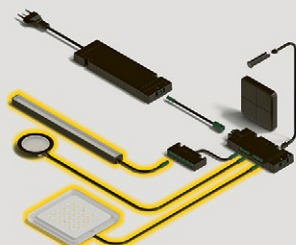
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless ③
Sensors ③
Actors ③

Wired
Sensors
Actors

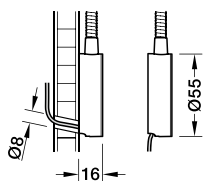
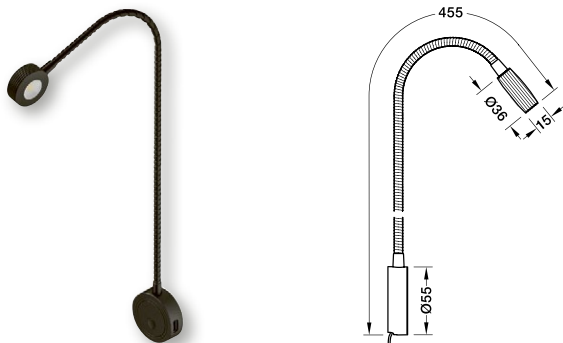
Supplying
Drivers



LED 3034

Surface mounted light, flexible

Plus 



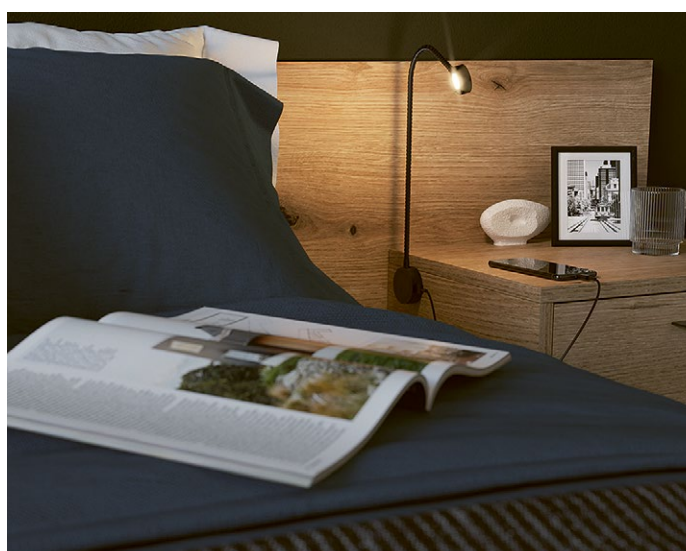
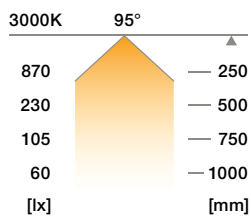
Black



Chrome colored

- Outstanding ease of movement and load bearing capacity for commercial projects
- With a 2.5 A USB charging station
- Integrated push switch for 2 brightness levels
- Identical colour temperature to Häfele Lighting LED strip lights

Area of application:	Reading light
Version:	Integrated USB charging station 5 V/2.5 A, integrated push switch for 2 brightness levels, with magnetic cover for plinth
Housing material:	Aluminium
Flexible arm material:	Aluminium
Length of flexible arm:	363 mm
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	4
Life time:	L80/B10: 30,000 hrs
Degree of protection:	IP20
Installation:	For screw fixing
Supplied with:	1 Light with mounting material



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Black	Chrome plated
3000	1.5	120	80	833.75.088	833.75.089

Note

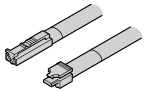
Power requirement including USB charging station: 19 W min. 20 W driver per light required for optimum operation of the USB charging station

Installation reference

When using a 6-way distributor with switching function or Häfele Connect Mesh, please always connect this light with integrated switch to the 7th Connect output (continuous current) of the 6-way distributor.

Please order modular lead (833.95.791) separately.

Lead



Length mm	Cat. No.
2000	833.95.791



Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

Linear light
Ceiling, wall light

Controlling

Wireless

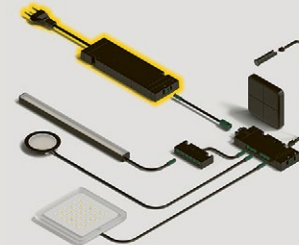
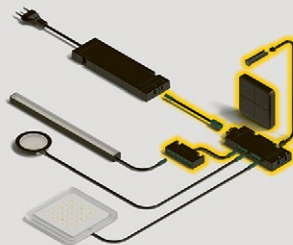
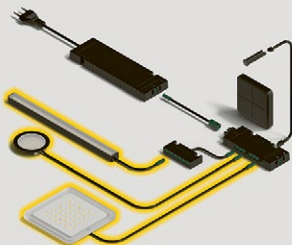
Sensors 
Actors 

Wired

Sensors
Actors

Supplying

Drivers



LED 3008

Light module 24 V, 1.5 W, drill hole Ø: 35 mm, IP45

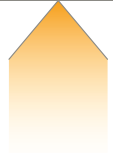
Pro 



- > Modular system: Wide range of design options with interchangeable housings and modular leads
- > Light with integrated cable socket for quick conversion
- > Suitable for concealed hinge drill hole

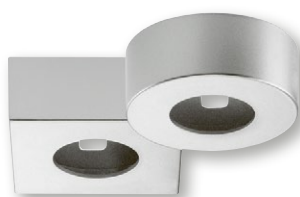
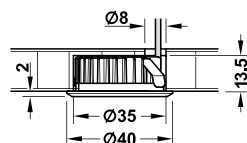
HAFELE Lighting

The Catalogue:

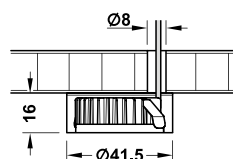
2700K	5000K	80°	
225	250		— 250
81	90		— 500
36	40		— 750
20	23		— 1000
[lx]	[lx]		[mm]



Recess mounted housing



Surface mounted housing



Dimmable:	Yes
Area of Application:	Kitchen and living room furniture, display cabinets
Housing material:	Aluminium
Housing colour/finish:	Silver coloured
Colour rendering index Ra:	90
Colour rendering index R9:	>55
Number of LEDs:	2
Life time:	L80/B10: >50,000 hrs L70/B50: >80,000 hrs
Mounting:	Drilling in and clamping or for screw fixing
Supplied with:	1 Light module

Material:	Plastic
Mounting:	Drilling in and clamping

Material:	Plastic
Mounting:	For screw fixing



Black



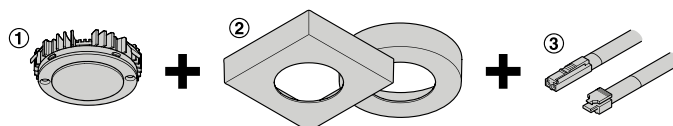
Matt
nickel-
plated



Silver
colored



White



Always required:

① Light module, ② Housing, ③ Lead

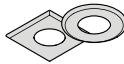
Monochrome



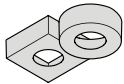
Colour temperature K	Luminous flux lm	Luminous efficiency lm/W	Silver coloured
2700	115	76	833.75.560
3000	115	76	833.75.561
4000	115	76	833.75.562
5000	125	83	833.75.563

Note
Delivery Time: 90-120 Days

Recess mounted housing



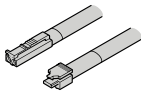
Surface mounted housing



Colour/finish		
	Round	Square
Recess mounted housing		
Black	833.72.184	833.72.188
Matt, nickel plated	833.72.186	833.72.190
Silver coloured	833.72.145	833.72.146
White	833.72.187	833.72.191
Surface mounted housing		
Black	833.72.176	833.72.180
Matt, nickel plated	833.72.178	833.72.182
Silver coloured	833.72.143	833.72.144
White	833.72.179	833.72.183

Note
The IP45 degree of protection is reduced to IP20 with surface mounting or recess mounting with through hole.
Delivery Time: 90-120 Days

Lead



Length mm	Cat. No.
2000	833.95.791

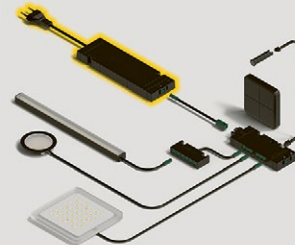
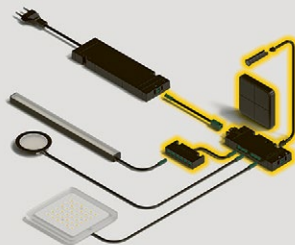
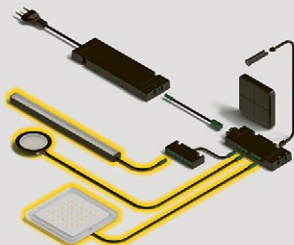
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless ③
Sensors ③
Actors ③

Wired
Sensors
Actors

Supplying
Drivers



LED 3092/LED 3086/LED 3091

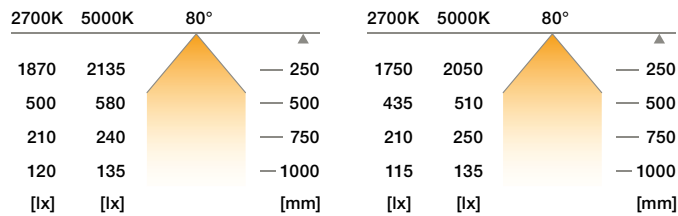
Light module 24 V, 3.4 W, drill hole Ø: 58 mm, IP45

Pro 



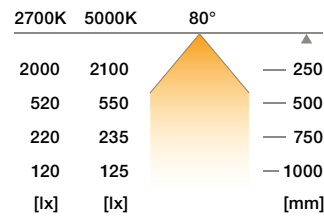
- > Modular system: Wide range of design options with interchangeable housings and leads
- > Light with integrated cable socket for quick conversion

Dimmable:	Yes
Area of Application:	Kitchen and living room furniture, counters
Housing material:	Aluminium
Colour rendering index Ra:	>90
Colour rendering index R9:	>55
Number of LEDs:	6
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Mounting:	For mounting in drilled hole and clamp fixing, or for screw fixing
Supplied with:	1 Light module

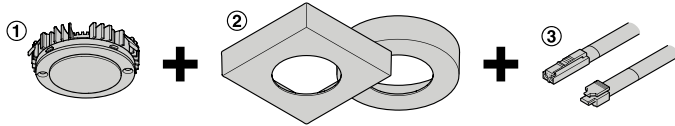


LED 3092

LED 3086



LED 3091



Always required::

- ① Light module, ② Housing, ③ Lead



Monochrome



Colour temperature K	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
LED 3092			
2700	220	65	833.75.174
3000	240	71	833.75.175
4000	250	74	833.75.176
5000	260	76	833.75.177

Note
Delivery Time: 90-120 Days

Tunable white (2-wire technology)



LED 3086			
2700-5000	225-260	67-76	833.72.451

Note
Delivery Time: 90-120 Days

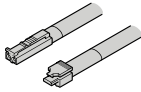
Tunable white (3-wire technology)



LED 3091			
2700-5000	240-270	72-80	833.75.178

Note
The IP45 degree of protection is reduced to IP20 when using a surface mounted housing.
Delivery Time: 90-120 Days

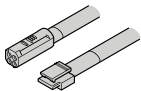
Lead, for LED 3092, 3086



Length mm	Cat. No.
2000	833.95.791

Note
Delivery Time: 90-120 Days

Lead, for LED 3091



Length mm	Cat. No.
2000	833.95.790

Note
Delivery Time: 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

Housings

Linear light
Ceiling, wall light

Controlling

Wireless

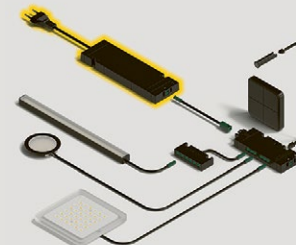
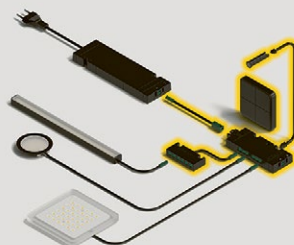
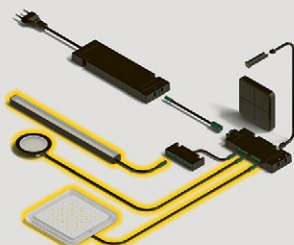
Sensors
Actors

Wired

Sensors
Actors

Supplying

Drivers



Housing for light module with drill hole Ø 58 mm

Pro

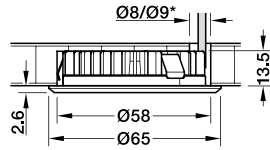
Recess mounted housing/surface mounted downlight housing/angled surface mounted downlight housing

HAFELE Lighting

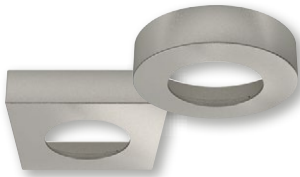
The Catalogue



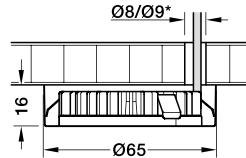
Recess mounted housing



Material:	Plastic
Mounting:	Drilling in and clamping



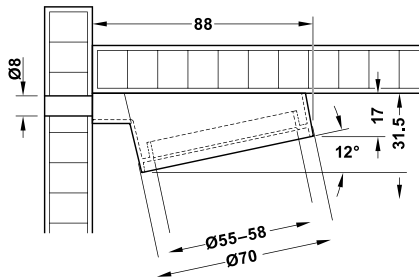
Surface mounted housing



Material:	Plastic
Mounting:	For screw fixing



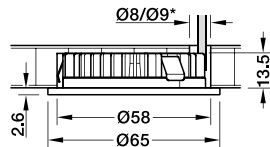
Angled surface mounted downlight housing



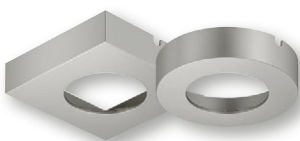
Material:	Plastic
Mounting:	For screw fixing



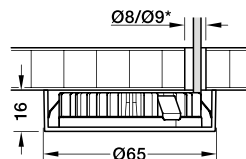
Recess mounted housing



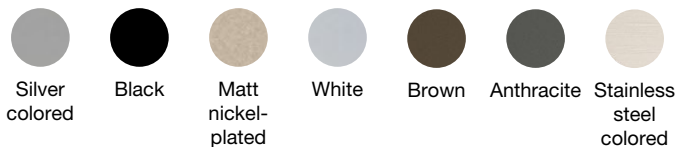
> High-quality metal housing	
Material:	Steel
Mounting:	Drilling in and clamping



Surface mounted housing



Material:	Steel
Mounting:	For screw fixing



Recess mounted housing

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

Note

Delivery Time: 90-120 Days

Surface mounted housing

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

Note

Degree of protection with surface mounted housing is IP20

Delivery Time: 90-120 Days

Angled surface mounted downlight housing

	Cat. No.
Stainless steel coloured, brushed	833.80.743
Chrome plated, polished	833.80.742
Matt black	833.80.740
White, matt	833.80.741

Note

Degree of protection with housing for surface mounted downlight is IP20.

Delivery Time: 90-120 Days

Order reference

A round recess mounted housing in the matching colour must be ordered additionally.
Also suitable for recess mounted lights with a drill hole Ø 55 mm.

Recess mounted housing

Colour/finish	Round	Square
	Silver coloured	833.72.500
Black	833.72.501	833.72.507
White	833.72.502	833.72.508
Bright, chrome plated	833.72.503	833.72.509
Brass coloured	833.72.504	833.72.510
Stainless steel coloured, nickel plated	833.72.524	833.72.525

Note

Delivery Time: 90-120 Days

Surface mounted housing

Silver coloured	833.72.512	833.72.518
Black	833.72.513	833.72.519
Bright, chrome plated	833.72.515	833.72.521
Brass coloured	833.72.516	833.72.522

Note

Degree of protection with surface mounted housing is IP20

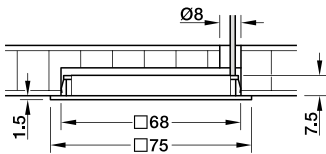
Delivery Time: 90-120 Days

LED 3033

Recess mounted light, installation opening: 68 x 68 mm, IP20

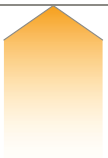
Pro 

Black

Stainless
steel
colored

- > High-quality housing
- > Premium lighting technology

Dimmable:	Yes
Area of Application:	Cabinet (inside), shelves, shelves
Material:	Aluminium
Dimensions (L x W x D):	75 x 75 x 9 mm
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	2 x 14
Life time:	L80/B10 >50,000 hrs L70/B50 >30,000 hrs
Mounting:	For recess mounting, for clamp fixing
Installation reference:	Installation opening 68 x 68 mm
Cable length:	2000 mm
Supplied with:	1 Light with lead

2700K	5000K	105°	
1260	1300		— 250
315	325		— 500
140	145		— 750
80	80		— 1000
[lx]	[lx]		[mm]

Tunable white
(2-wire technology) 

Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Black	stainless steel coloured
2700–5000	2.9	175–185	60–63	833.75.395	833.75.396

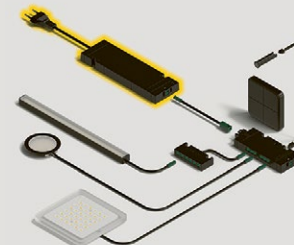
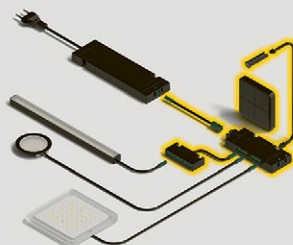
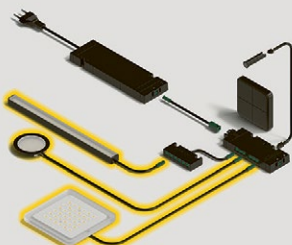
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless 
Sensors 
Actors 

Wired
Sensors
Actors

Supplying
Drivers

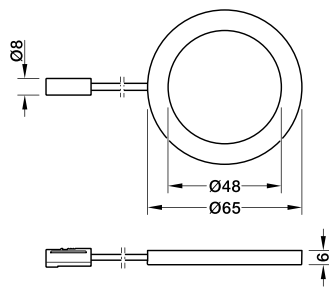


LED 3035/LED 3036

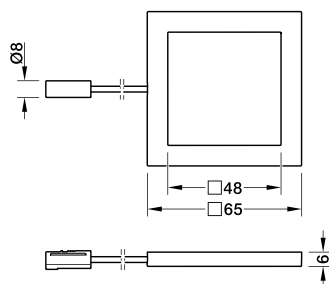
Surface mounted downlight IP20

Plus 


LED 3035

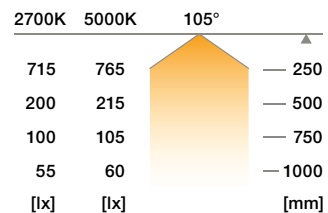


LED 3036

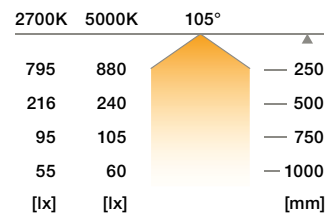


- > Minimum installation height 6 mm
- > Homogeneous illumination
- > Also suitable for short-term voltage peaks up to 26.4 V with integrated IC

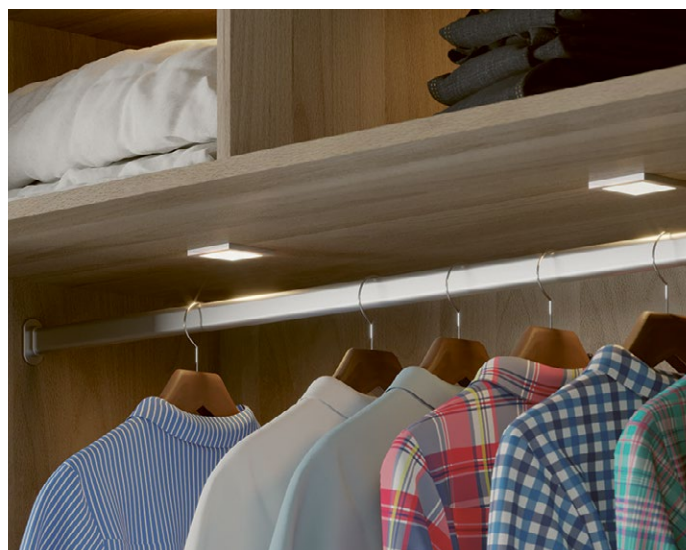
Dimmable:	Yes
Area of Application:	Cabinets, shelves, display cabinets
Material:	Housing: Plastic Diffuser: Plastic
Dimensions (Ø x H):	65 x 6 mm
Colour rendering index Ra:	≥90
Colour rendering index R9:	>50
Number of LEDs:	7
Life time:	L80/B10 30,000 hrs L70/B50 50,000 hrs
Mounting:	For screw fixing or glue fixing
Cable length:	2000 mm
Supplied with:	1 LED light with 2 m lead, including fixing materials



LED 3035



LED 3036



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Silver coloured
LED 3035				
2700	2.5	140	56	833.77.250
3000		140	56	833.77.251
4000		150	60	833.77.252
5000		150	60	833.77.253

Note
Delivery Time: 90-120 Days

Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Silver coloured
LED 3036				
3000	2.5	145	58	833.77.261
4000		155	62	833.77.262

Note
Delivery Time: 90-120 Days

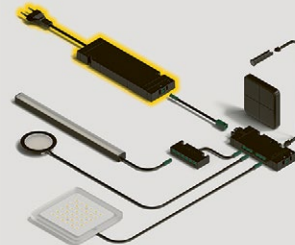
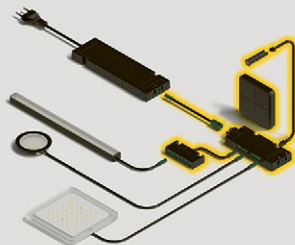
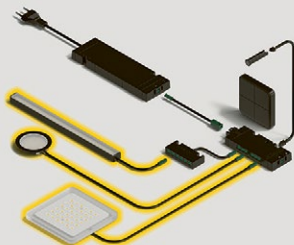
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless
Sensors
Actors

Wired
Sensors
Actors

Supplying
Drivers

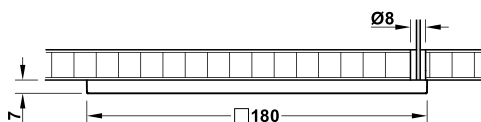


LED 3067/LED 3066

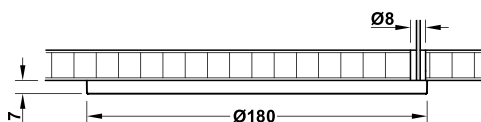
Surface mounted downlight IP20



LED 3067



LED 3066



3000K		4000K		110°			
3580	3620	3510	3400	— 250			
895	905	880	850	— 500			
398	402	389	377	— 750			
220	230	220	210	— 1000			
[lx]	[lx]	[lx]	[lx]	[mm]			

LED 3067

LED 3066

- > Homogeneous, surface-directed illumination
- > Extremely flat design
- > Interchangeable frames (silver and black)

Dimmable:	Yes
Area of Application:	Light in cabinets, kitchens
Material:	Housing: Plastic Diffuser: Plastic
Dim. (L x W x H):	180 x 180 x 7 mm
Colour rendering index Ra:	>90
Colour rendering index R9:	>60
Number of LEDs:	140
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Installation:	For screw fixing
Installation reference:	Replacement frame must only be fitted after installation.
Cable length:	2000 mm
Supplied with:	1 Light with lead and mounting material 2 Replacement frames (silver coloured and black)



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Silver coloured/ black
LED 3067				
3000	7.0	550	79	833.77.295
4000				833.77.296

Note
Delivery Time: 90-120 Days

Monochrome



LED 3066				
3000	6.5	550	84	833.77.293
4000				833.77.294

Note
Delivery Time: 90-120 Days

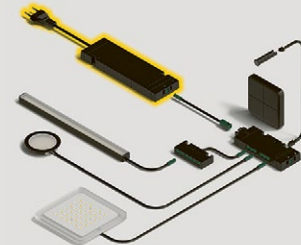
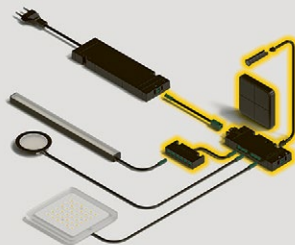
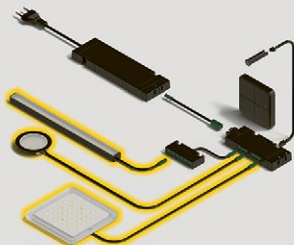
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless ③
Sensors ③
Actors ③

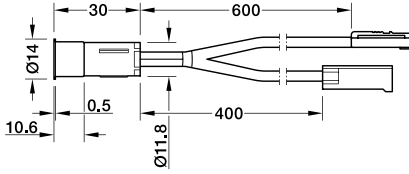
Wired
Sensors
Actors

Supplying
Drivers



LED 3101/LED 3102

Orientation light, IP20

Plus


- > Endless wiring
- > Simple installation in a 12 mm drill hole
- > incl. cover sleeves in 3 colours (white, grey, black)

Dimmable:	Yes
Area of Application:	Orientation lighting
Material:	Housing: Plastic Diffuser: Plastic
Colour/finish:	Opal white
Dimensions (Ø x H):	11.8 x 29.5 mm
Drill hole Ø:	12 mm
Colour rendering index Ra:	90
Colour rendering index R9:	60
Number of LEDs:	1
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Installation:	For mounting in drilled hole
Cable length:	Lead: 600 mm, Forwarding cable: 400 mm
Supplied with:	Light with lead and forwarding cable 3 Cover sleeves (white, grey, black) per light

3000K	4000K	110°		2700K	5000K	110°	
61	66		— 250	60	70		— 250
15	16		— 500	15	18		— 500
7	7		— 750	7	7		— 750
4	4		— 1000	4	4		— 1000
[lx]	[lx]		[mm]	[lx]	[lx]		[mm]

LED 3101

LED 3102



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Single light	5-Piece set
LED 3101					
3000	0.3	9	30	833.75.601	833.75.603
4000		10	33	833.75.602	833.75.604

Note
Delivery Time: 90-120 Days

Tunable white (2-wire technology)



LED 3102					
2700-5000	0.3	8	27-33	833.75.605	833.75.606

Note
The values for power, luminous flux and luminous efficiency apply to a single light.
Delivery Time: 90-120 Days

Energy efficiency
Regulation (EU) 2019/2015 does not provide an energy efficiency classification for bulbs with a luminous flux of less than 60 Lumen.

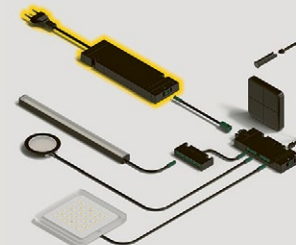
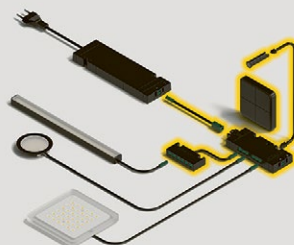
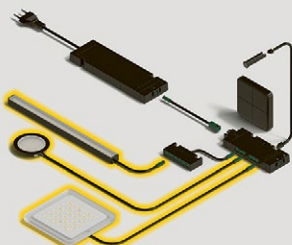
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless 
Sensors 
Actors 

Wired
Sensors
Actors

Supplying
Drivers



LED 3100 set

Surface mounted downlight, IP 20

Plus 



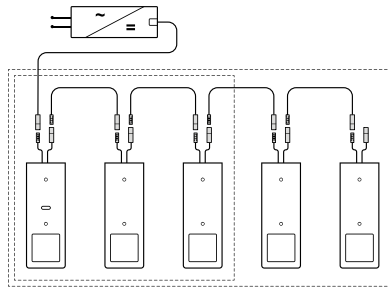
Main light black



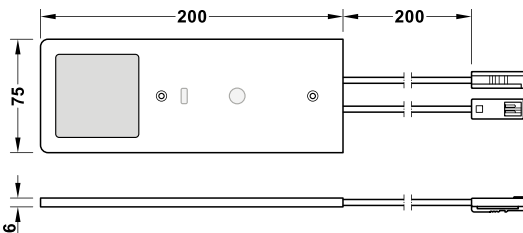
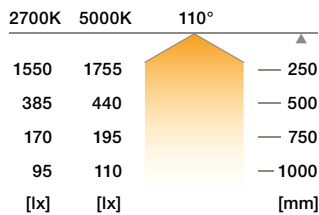
Black



Silver colored



LED 3100 Set



LED 3100 Light

- > Main light with gesture control (on/off, dimming) and colour selection push button
- > Extra flat, solid aluminium housing with 6 mm installation height
- > Homogeneous light distribution

Dimmable:	Yes
Area of application:	Wall cabinets, shelves
Material:	Housing: Aluminium Diffuser: Plastic
Dim. (L x W x H):	200 x 75 x 6 mm
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	36
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Mounting:	For screw fixing
Cable length:	200 mm
Supplied with:	1 Main light with dimmer sensor and colour selection push button with lead and forwarding cable Secondary lights with lead and forwarding cable with 2 m extension lead 1 Y-extension lead 0.5 m single lead/ 1.5 m double lead, mounting material

Supplied with: 1 Light with lead and forwarding cable fixing material



Tunable white
(2-wire technology) 

Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Black	Silver coloured
3-piece set (1 main light, 2 secondary lights), total wattage 15 W					
2700–5000	5.0	270–320	54–64	833.77.482	833.77.472
5-piece set (1 main light, 4 secondary lights), total wattage 25 W					
2700–5000	5.0	270–320	54–64	833.77.483	833.77.473

Note

The main light has integrated colour control and cannot be controlled with Häfele Connect Mesh. The main light can be extended with max. 7 secondary lights. Please dimension the driver accordingly.

Installation reference

When using an optional 6-way distributor with switching function, please always connect the main light with integrated switch to the 7th Connect output (continuous current) of the 6-way distributor.

Please order driver separately.

Tunable white
(2-wire technology) 

Main light (single)					
2700–5000	5.0	270–320	54–64	833.77.481	833.77.471
Secondary light (single)					
2700–5000	5.0	270–320	54–64	833.77.480	833.77.470

Note

Delivery Time: 90-120 Days

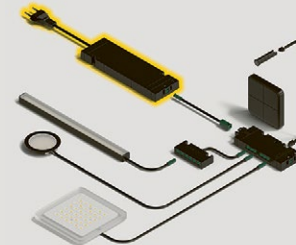
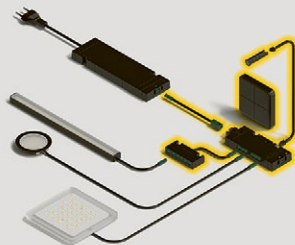
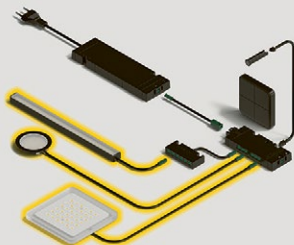
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless 
Sensors 
Actors 

Wired
Sensors
Actors

Supplying
Drivers



LED 3109 set

surface mounted downlight, IP 20

Plus 



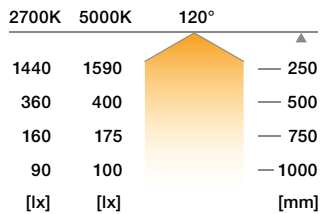
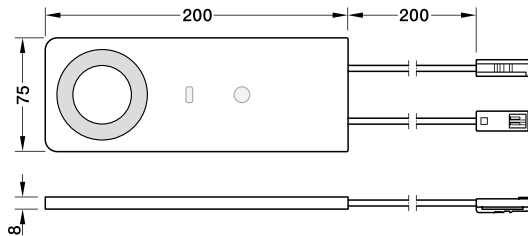
Main light black



Black



Silver colored

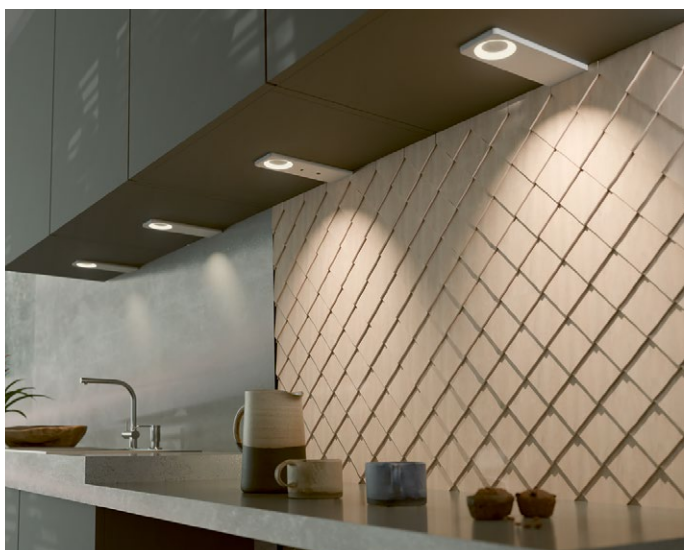


LED 3109 Light

- > Concealed mounting
- > Main light with gesture control (on/off, dimming) and colour selection push button
- > Extra flat housing with 8 mm installation height
- > Homogeneous light distribution

Dimmable:	Yes
Area of application:	Wall cabinets, shelves
Material:	Housing: Plastic Diffuser: Plastic
Dim. (L x W x H):	200 x 75 x 8 mm
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	42
Life time:	L80/B10 >50,000 hrs L70/B50 >80,000 hrs
Degree of protection:	IP20
Installation:	For screw fixing, with mounting plate
Cable length:	200 mm
Supplied with:	1 Main light with dimmer sensor and colour selection push button with lead and forwarding cable Secondary lights with lead and forwarding cable incl. 2 m extension lead 1 Y extension lead 0.5 m single lead/ 1.5 m double lead, mounting material

Supplied with:	1 Light with lead and forwarding cable Mounting material
-----------------------	---



Tunable white
(2-wire technology) 

Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Black	White
3-piece set (1 main light, 2 secondary lights), total wattage 15 W					
2700-5000	5.0	270-310	54-62	833.77.542	833.77.532
5-piece set (1 main light, 4 secondary lights), total wattage 25 W					
2700-5000	5.0	270-310	54-62	833.77.543	833.77.533

Note

The main light has integrated colour control and cannot be controlled with Häfele Connect Mesh.
The maximum range of the sensor for gesture control is 120 mm.
The main light can be extended with max. 7 secondary lights.
Please dimension the driver accordingly.

Installation reference

When using an optional 6-way distributor with switching function, please always connect the main light with integrated switch to the 7th Connect output (continuous current) of the 6-way distributor.

Please order driver separately.

Tunable white
(2-wire technology) 

Main light (single)					
2700-5000	5.0	270-310	54-62	833.77.541	833.77.531
Secondary light (single)					
2700-5000	5.0	270-310	54-62	833.77.540	833.77.530

Note

Delivery Time: 90-120 Days

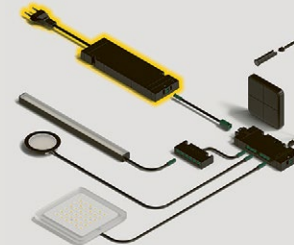
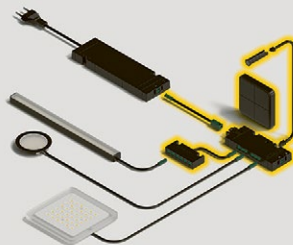
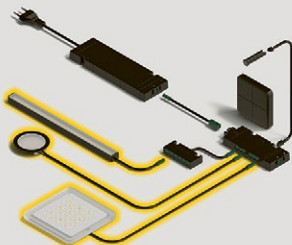
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting
Linear light
Ceiling, wall light

Controlling
Wireless 
Sensors 
Actors 

Wired
Sensors
Actors

Supplying
Drivers



OneCable Spot 4 TT Connect

Spotlight for lighting system 24 V, 5 W, IP20

Plus 

HAFELE Lighting

The Catalogue



Reflector



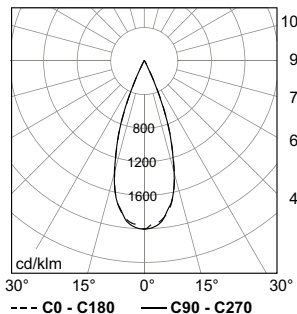
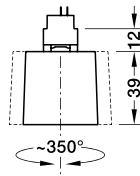
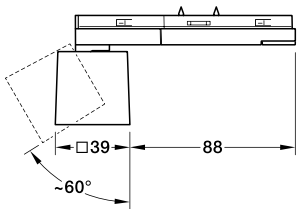
White



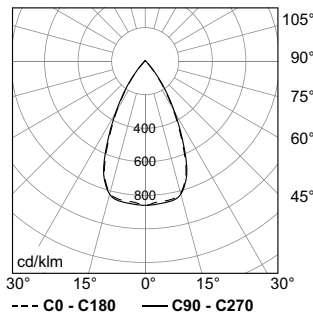
Black

- > Swivelling, for directed light on surfaces or objects
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing


Dimmable:	Yes
Area of Application:	Kitchen islands, dining tables, work surfaces, focused light on objects
Housing material:	Plastic
Other housing features:	Aluminium heat sink
Length:	39 mm
Width:	39 mm
Height:	39 mm
Colour rendering index Ra:	90
Number of LEDs:	4
Life time:	L80/B10 >50,000 hrs
Installation:	Separable clamp fixing
Supplied with:	1 Light with current collector




Beam angle 40°



Beam angle 80°

2700K	5000K	40°	
1107	1229		— 1.0
492	546		— 1.5
277	307		— 2.0
177	197		— 2.5
123	137		— 3.0
[lx]	[lx]		[m]

Beam angle 40°

2700K	5000K	80°	
639	710		— 1.0
284	316		— 1.5
160	178		— 2.0
102	114		— 2.5
71	79		— 3.0
[lx]	[lx]		[m]

Beam angle 80°



Tunable white



Colour temperature K	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	White	Black
2700–5000	450–500	90–100	40	833.68.326	833.68.325
	450–500	90–100	80	833.68.324	833.68.323

Installation hint

Press in the contact blade straight and without tilting it.

Risk of injury: sharp contact blades.

Do not touch the reflectors!

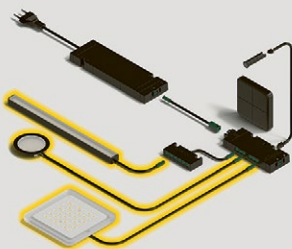
For vertical wall mounting, an alignment connector must be attached directly to the luminaire in the direction of the floor as a mechanical safety device.

Lighting system. Additional components in the Häfele Lighting catalogue.



Lighting

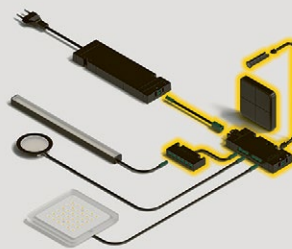
OneCable Spot 9
OneCable adapter for LED strip
OneCable profile
OneCable flat cable

LED strips



Controlling

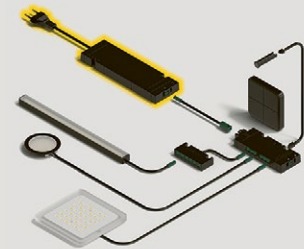
Wireless 
Sensors 



Supplying

OneCable power supply

Drivers

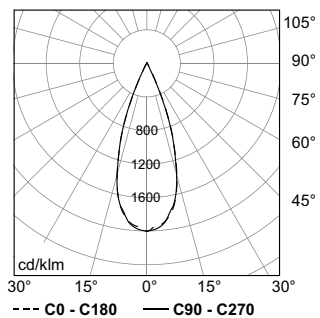
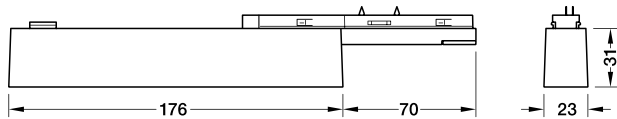


OneCable Spot 9 Connect linear

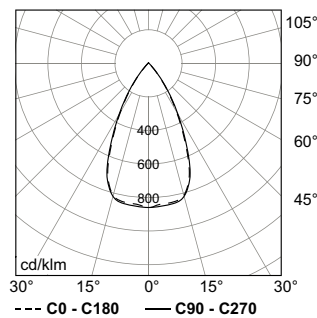
Spotlight for lighting system 24 V, 16 W, IP20

Plus 

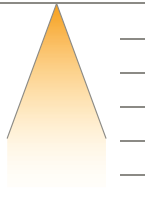
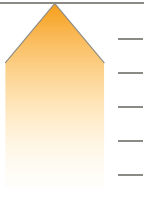
- > For directed light on surfaces or objects
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing



Beam angle 40°



Beam angle 80°

2700K	5000K	40°		2700K	5000K	80°	
2705	3000		— 1.0	1563	1733		— 1.0
1202	1333		— 1.5	695	770		— 1.5
676	750		— 2.0	391	433		— 2.0
433	480		— 2.5	250	277		— 2.5
301	333		— 3.0	174	193		— 3.0
[lx]	[lx]		[m]	[lx]	[lx]		[m]

Beam angle 40°

Beam angle 80°



Tunable white



Colour temperature K	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	White	Black
2700–5000	1100–1220	68–76	40	833.68.330	833.68.329
	1100–1220	68–76	80	833.68.328	833.68.327

Installation hint

Press in the contact blade straight and without tilting it.

Risk of injury: sharp contact blades.

Do not touch the reflectors!

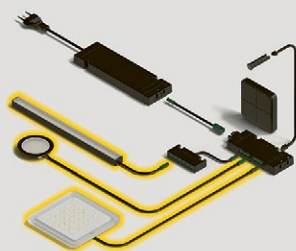
For vertical wall mounting, an alignment connector must be attached directly to the luminaire in the direction of the floor as a mechanical safety device.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

OneCable Spot 4
OneCable adapter for LED strip
OneCable profile
OneCable flat cable

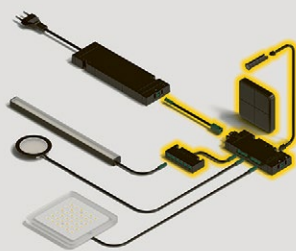
LED strips



Controlling

Wireless

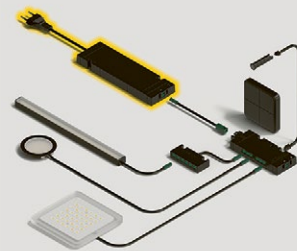
Sensors



Supplying

OneCable power supply

Drivers



OneCable adapter for LED strip light

For lighting system 24 V, IP20, max. 75 W

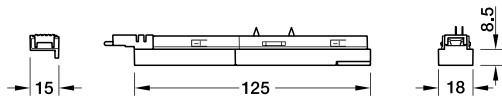
Plus

- > For linear light
- > Direct control via Connect Mesh (without distributors)
- > Suitable for LED 3044/3047/3049
- > EasyPairing

Dimmable:	Yes
Area of Application:	Linear light
Area of application:	For LED strip light (24 V, multi-white, 3-pin, 8 mm)
Installation:	Separable clamp fixing
Supplied with:	1 Adapter with current collector

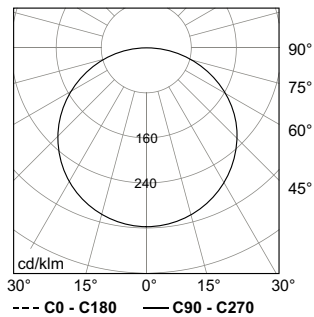


Adapter



Material:	Polycarbonate
------------------	---------------

Diffuser



Tunable white
(3-wire technology) 

Wattage capacity W		White	Black
	Adapter		
	75	833.68.334	833.68.333

Installation hint

Press in the contact blade straight and without tilting it.

Risk of injury: sharp contact blades.

For vertical wall mounting, an alignment connector must be attached directly to the luminaire in the direction of the floor as a mechanical safety device.

Suitable adhesive tape (833.89.266) must be used to ensure that the LED strip adheres securely to the ribbon cable.

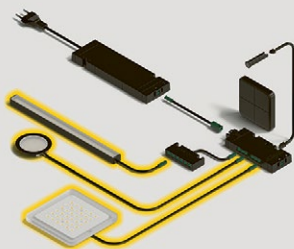
Diffuser colour/finish	Light permeability %		2500 mm
		Diffuser	
		Transparent	≈ 90
			833.68.335

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting


LED 3044/3047/3049

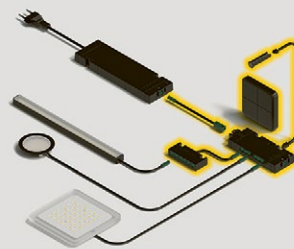
- OneCable Spot 4
- OneCable Spot 9
- OneCable profile
- OneCable flat cable



Controlling

Wireless 

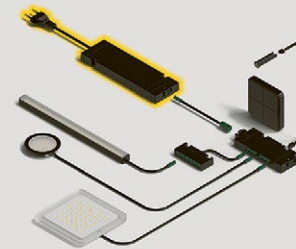
Sensors 



Supplying

OneCable power supply

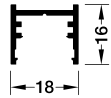
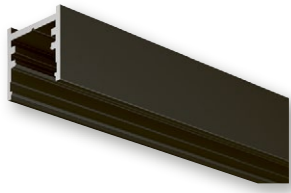
Drivers



OneCable power supply

Plus

OneCable profile



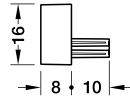
White



Black

Material:	Aluminium
Refinement:	Powder coated
Installation:	For screw fixing
Supplied with:	1 Profile

OneCable End cap



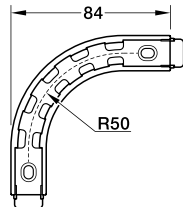
White



Black

Material:	Plastic
Installation:	For plug fitting
Supplied with:	1 End cap

OneCable corner connector 90° at one room level



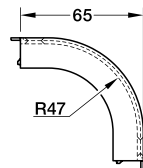
White



Black

Material:	Zinc alloy
Colour/finish:	Powder coated
Installation:	For plug fitting, For screw fixing
Installation reference:	20 cm flat cable required for each connector
Supplied with:	1 Profile connector

OneCable corner connector 90° over 2 room levels



White



Black

Material:	Zinc alloy
Colour/finish:	Powder coated
Installation:	For plug fitting, For screw fixing
Installation reference:	20 cm flat cable required for each connector
Supplied with:	1 Profile connector

OneCable flat cable



White



Black

Material:	Rubber
Width:	12 mm
Height:	6 mm
Mounting:	For push fitting
Supplied with:	1 Flat cable

Length mm	Width mm	Height mm	White	Black
2500	18	16	833.68.304	833.68.303

Installation reference

The profile is pre-drilled; additional drill holes may be required after shortening

End cap	833.68.312	833.68.311
---------	------------	------------

Connectors 90° at one room level	833.68.306	833.68.305
----------------------------------	------------	------------

Connectors 90° over 2 room levels	833.68.308	833.68.307
-----------------------------------	------------	------------

Length m	Black
5	833.68.301
10	833.68.302

Note

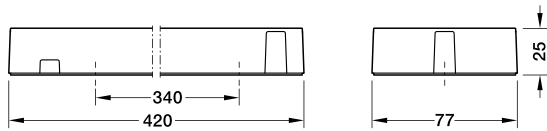
Polarity reversal protection

Because of the symmetrical design of the flat cable (2 outer cables around the centre cable), the connection of the lights and the LED strip light adapter has protection from polarity reversal. This makes it possible to position lights towards or away from the feeder.

System length

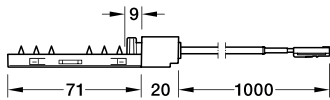
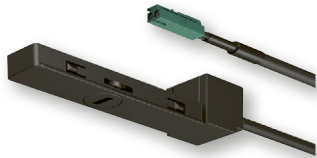
The maximum lead length from the driver output to the last light or to the end of an LED strip light is 20 metres.

OneCable Design housing

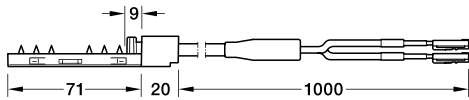
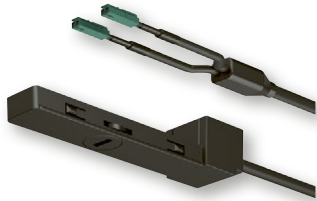


Area of application:	Cover for visibly attached drivers
Usable for:	Drivers up to 90 W
Material:	Plastic
Installation:	For screw fixing
Supplied with:	1 Cover (bottom shell, top shell)

OneCable power supply



Area of application:	Power supply into the flat cable of a profile
Material:	Plastic
Mounting:	Separable clamp fixing
Supplied with:	1 Power supply, 1 End cap



Cable length mm	White	Black
	300	833.68.314
500	833.68.316	833.68.315

Design housing	833.68.310	833.68.309
----------------	------------	------------

Wattage capacity W	Cable length mm	White	Black
		Power supply with end cap	
90	200	833.68.351	833.68.350
	1000	833.68.353	833.68.352
240	1000	833.68.355	833.68.354

Note

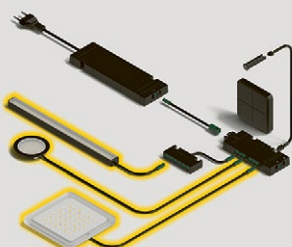
Depending on the variant total Wattage capacity of 90 W or 2 x 120 W per external flat cable. The maximum wattage capacity can be ensured by appropriate positioning of the lights (120 W positioned away from the feeder, 120 W positioned towards the feeder).

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

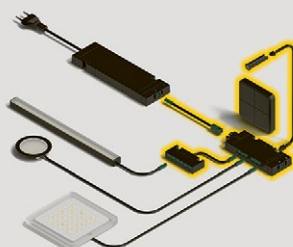
- OneCable Spot 4
- OneCable Spot 9
- OneCable adapter for LED strip
- OneCable profile
- OneCable flat cable

LED strips

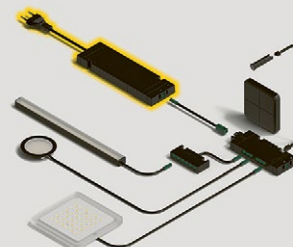


Controlling

- Wireless**
- Sensors



Supplying Drivers



R One Connect

24 V Drill hole diameter: 68 mm

Plus

HAFELE Lighting

The Catalogue



IP20 (open reflector)

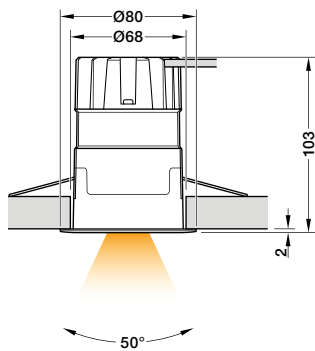


IP44 (closed reflector)

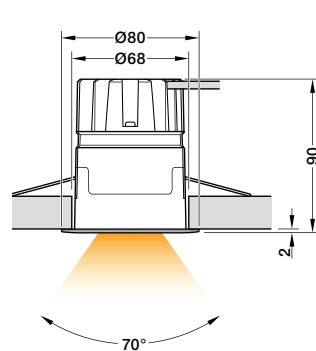


- > Absolute glare-free light
- > EasyPairing

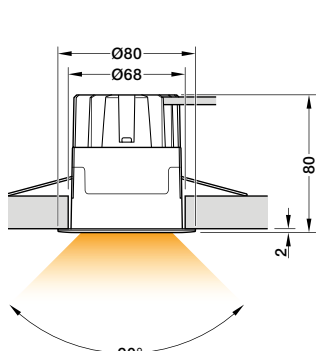
Dimmable:	Yes
Area of Application:	Ceiling light (uniform beam angle), grazing light on upright surfaces and objects (asymmetrical beam angle)
Housing material:	Plastic
Housing colour/finish:	Matt
Other housing features:	Aluminium heat sink
Number of LEDs:	1
Life time:	L80/B10 >50,000 hrs
Colour rendering index Ra:	>90
Max. distance within the network:	5 m



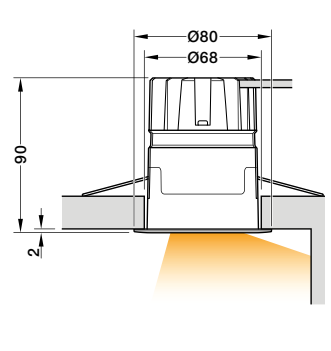
Beam angle 50°, IP20



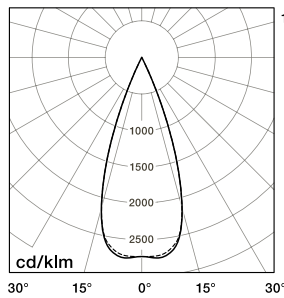
Beam angle 70°, IP20



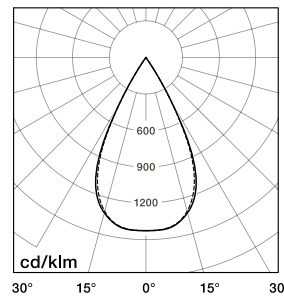
Beam angle 90°, IP20



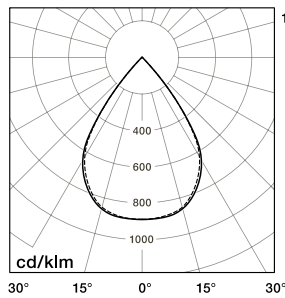
Beam angle asymmetrical, IP20



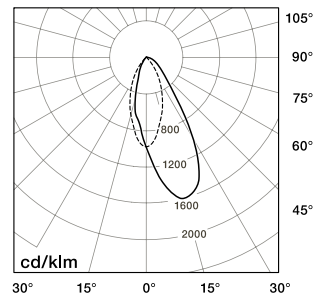
Beam angle 50° FWTM, 40° FWHM



Beam angle 70° FWTM, 55° FWHM



Beam angle 90° FWTM, 70° FWHM



Beam angle 50°

2200K	5000K	50°	
1749	2131		— 1.0
777	947		— 1.5
437	533		— 2.0
280	341		— 2.5
194	237		— 3.0
[lx]	[lx]		[m]

Beam angle 50°, tunable white

2200K	5000K	70°	
969	1182		— 1.0
431	525		— 1.5
242	296		— 2.0
155	189		— 2.5
108	131		— 3.0
[lx]	[lx]		[m]

Beam angle 70°, tunable white

2200K	5000K	90°	
685	828		— 1.0
305	368		— 1.5
171	207		— 2.0
110	132		— 2.5
76	92		— 3.0
[lx]	[lx]		[m]

Beam angle 90°, tunable white

2700K	4000K	70°	
3343	3484		— 1.0
1486	1548		— 1.5
836	871		— 2.0
535	557		— 2.5
371	387		— 3.0
[lx]	[lx]		[m]

Beam angle 70°, monochrome

Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Version	Beam angle °	Black, matt	White, matt
IP20							
3000	12.0	1210	100	Symmetrical distribution	70	833.68.017	833.68.019
4000	12.0	1240	103	Symmetrical distribution	70	833.68.018	833.68.020

Note

Delivery Time : 90-120 Days

Tunable white

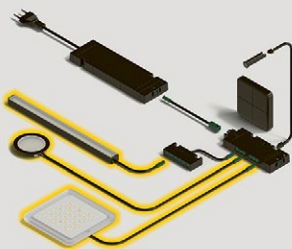


Connect, IP20							
2200–5000	12.0	680–830	56–69	Symmetrical distribution	70	833.68.012	833.68.011
		640–780	53–65	Symmetrical distribution	50	833.68.013	833.68.014
		670–820	55–68	Asymmetrical distribution	50	833.68.015	833.68.016



Lighting system. Additional components in the Häfele Lighting catalogue.

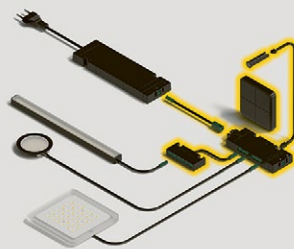
Lighting

Linear light
Furniture light



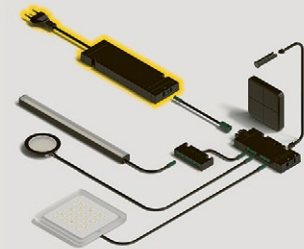
Controlling

Wireless 
Sensors 



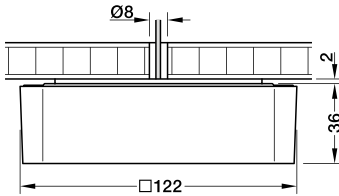
Supplying

Drivers

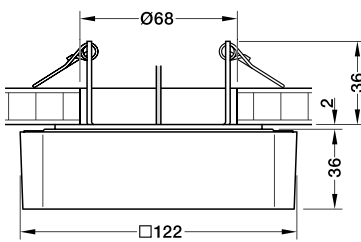


Q Four Connect ON ceiling light

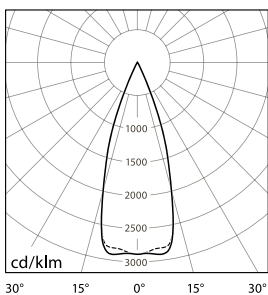
Surface mounted downlight, 24 V, IP20



Direct fixing

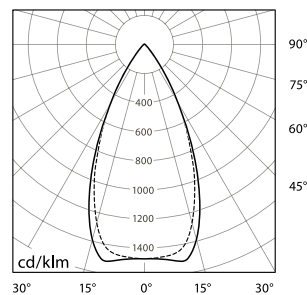


Cavity installation (optional)



----- C0-C180
 — C90-C270

Beam angle of 40°



----- C0-C180
 — C90-C270

Beam angle of 80°

- > Absolute glare-free light
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

Dimmable:	Yes
Area of Application:	Ceiling light, focused light on objects
Housing material:	Plastic
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	16
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	160 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting

2700K	5000K	40°	
1598	1964		— 1.0
706	873		— 1.5
397	491		— 2.0
254	314		— 2.5
177	218		— 3.0
[lx]	[lx]		[m]

Beam angle 40°

2700K	5000K	80°	
1020	1266		— 1.0
453	563		— 1.5
255	317		— 2.0
163	203		— 2.5
113	141		— 3.0
[lx]	[lx]		[m]

Beam angle 80°

Note
 Light distribution and illuminance levels apply to all Q Four Connect variants on the next (page 202).

Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	Black	White
2700–5000	15.0	550–680	38–45	40	833.67.773	833.67.771
		725–900	50–60	80	833.67.774	833.67.772

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Note

Programming of wireless control components via app.
Light receives control signals for on/off/dimming/colour change.
Lead length from driver to device max. 10 m.

Order reference

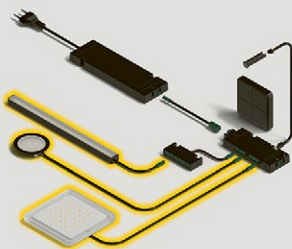
Colour control directly via remote controls from the Connect Mesh product range or smartphone.
Installation of the free Häfele Connect Mesh app required.
Important: Light supplied with voltage via 2-pin cables.
Mounting ring for cavity installation 833.67.779.
Please order separately.



Other versions

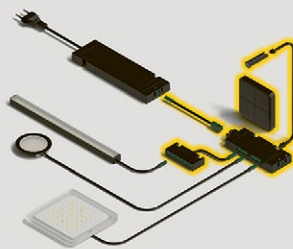
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

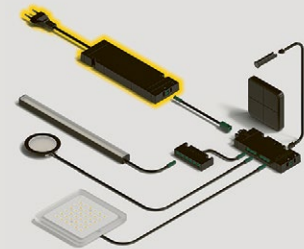
Lighting
Linear light
Furniture light



Controlling
Wireless 
Sensors 



Supplying
Drivers



Q Four Connect ceiling lights

Pro 

Q Four Connect IN, recess mounted light, 24 V, IP20



Cavity installation

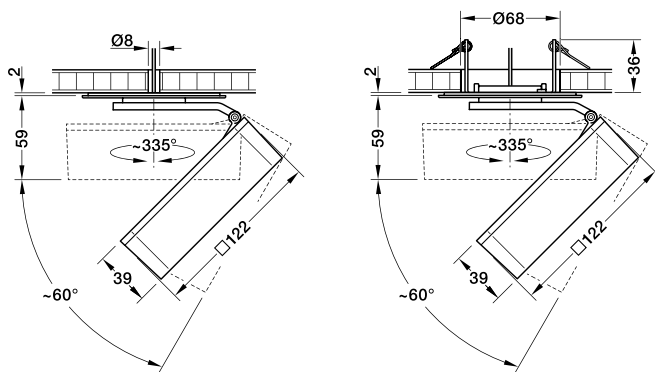
- > Absolute glare-free light
- > EasyPairing

Dimmable:	Yes
Area of Application:	Ceiling light, focused light on objects
Housing material:	Plastic
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	16
Life time:	L80/B10 >50,000 hrs
Cable length:	160 mm
Installation:	For clamping
Supplied with:	1 Light with lead 1 Ceiling installation sheet for cavity installation, including cover frame

Note

Light distribution and illuminance levels see Q Four Connect ON (page 200).

Q Four Connect TT, swivelling, surface mounted downlight, 24 V, IP20



Direct fixing

Cavity installation (optional)

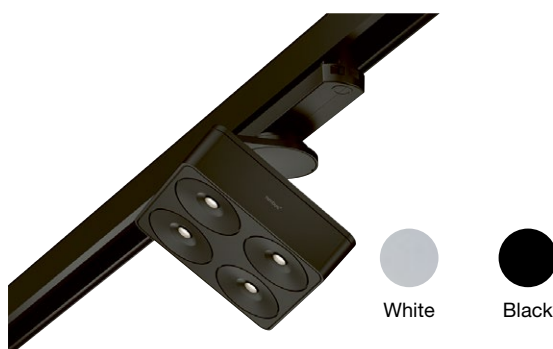
- > Swivels continuously in all directions, suitable for use as wall accent lighting, among other things
- > EasyPairing

Swivelling range of x-axis:	60°
Swivelling range of y-axis:	335°
Installation:	For screw fixing with magnetic mounting plate
Supplied with:	1 Light with lead 1 TT module 1 Mounting ring for direct mounting

Note

Light distribution and illuminance levels see Q Four Connect ON (page 200).

Q Four Connect TT Track, surface mounted downlight, 220 V, IP20, for 3-phase track system



- > Swivels continuously in all directions, suitable for use as wall accent lighting, among other things
- > EasyPairing

Version:	With integrated power supply
Swivelling range of x-axis:	60°
Swivelling range of y-axis:	335°
Installation:	For plug fitting, For clamping
Supplied with:	1 Light 1 Driver for 3-phase track system

Note

Light distribution and illuminance levels see Q Four Connect ON (page 200).

Tunable white



Colour temperature K	Wattage W	Luminous flux	Luminous efficiency	Beam angle °	Black	White
		lm	lm/W		833.67.920	833.67.906
2700–5000	15.0	550–680	38–45	40		
		725–900	50–60	80	833.67.927	833.67.913

Installation reference

Light with permanent magnets for adhesion to ceiling mounting plate with spring clips.
Wall cut-out (W x H) 133 x 133 mm, 100 mm deep.

Order reference

Colour control directly via remote controls from the Connect Mesh product range or smartphone.
Installation of the free Häfele Connect Mesh app required.
Important: Light supplied with voltage via 2-pin cables.
Please order separately.

Tunable white



2700–5000	15.0	550–680	38–45	40	833.67.916	833.67.902
		725–900	50–60	80	833.67.923	833.67.909

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or
to cavity box (drilling distance 60 mm).

Order reference

Colour control directly via remote controls from the Connect Mesh product range or smartphone.
Installation of the free Häfele Connect Mesh app required.
Important: Light supplied with voltage via 2-pin cables.
Mounting ring with anti-twist protection for TT, for cavity installation 833.67.780.
Please order separately.

Note

Delivery Time : 90-120 Days

Tunable white



2700–5000	15.0	550–680	38–45	40	833.67.919	833.67.905
		725–900	50–60	80	833.67.926	833.67.912

Installation reference

Customer-provided 3-phase track system required.

Order reference

Colour control directly via remote controls from the Connect Mesh product range or smartphone,
please order separately.
Installation of the free Häfele Connect Mesh app required.

Note

Delivery Time : 90-120 Days

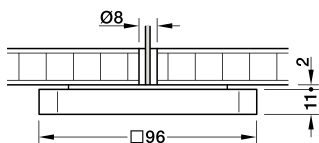
Ceiling light Module Q 16 Connect ON

Surface mounted downlight, 24 V, IP20

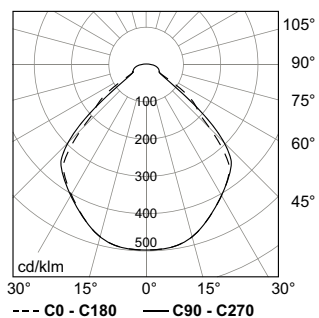
Pro 







- > Absolute glare-free light
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Colour rendering index Ra:	>90
Number of LEDs:	32
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



2700K	5000K	105°	
127	163		— 1.0
56	73		— 1.5
32	41		— 2.0
20	26		— 2.5
14	18		— 3.0
[lx]	[lx]		[m]

Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700-5000	3.5	265-340	76-97	833.67.760

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: mounting ring for screw fixing to surfaces (drilling distance 60 mm).

Note

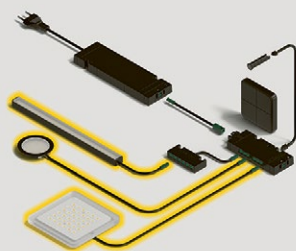
Programming of wireless control components via app.
Light receives control signals for on/off/dimming/colour change.
Lead length from driver to device max. 10 m.
Delivery Time : 90-120 Days



Other versions

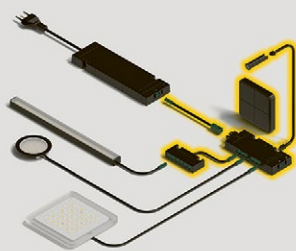
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

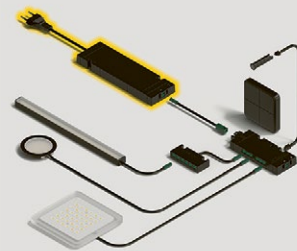
Lighting
Linear light
Furniture light



Controlling
Wireless 
Sensors 



Supplying
Drivers



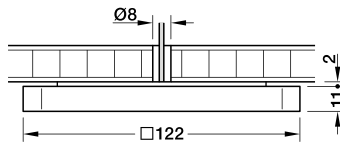
Ceiling light Module Q 36 Connect ON

Surface mounted downlight, 24 V, IP20

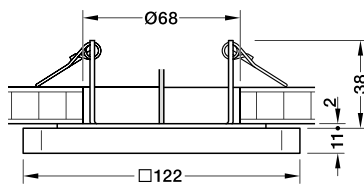
Pro 


- > Absolute glare-free light
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

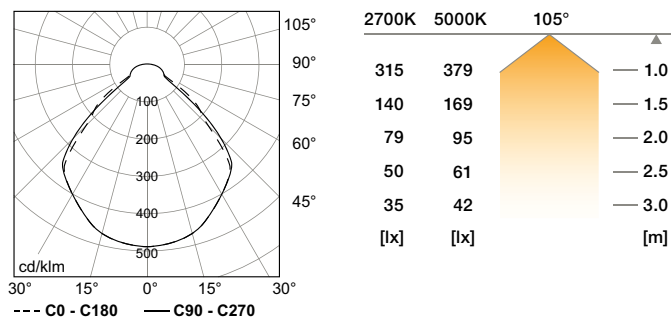
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Colour rendering index Ra:	>90
Number of LEDs:	72
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Note

Light distribution and illuminance levels apply to all Q 36 Connect variants on the next (page 208).

Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700-5000	7.5	655-790	87-105	833.67.761

Installation reference

Light with permanent magnets for adhesion to mounting ring.
 Direct mounting: mounting ring for screw fixing to surfaces (drilling distance 79 mm)
 Cavity installation: mounting ring with spring clips (drill hole Ø 68 mm).

Note

Programming of wireless control components via app.
 Light receives control signals for on/off/dimming/colour change.
 Lead length from driver to device max. 10 m.

Order reference

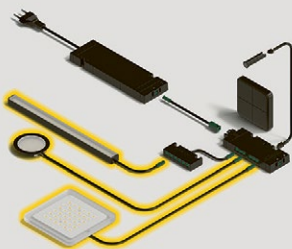
Colour control directly via remote controls from the Connect Mesh product range or smartphone.
 Installation of the free Häfele Connect Mesh app required.
 Important: Light supplied with voltage via 2-pin cables.
 Mounting ring for cavity installation 833.67.779.
 Please order separately.

Other versions

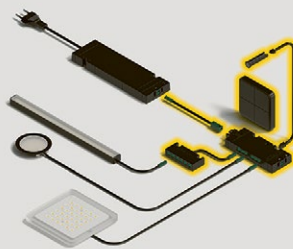
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

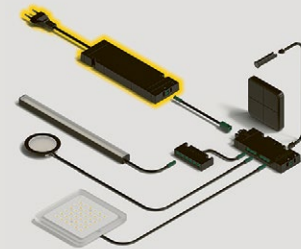
Lighting
 Linear light
 Furniture light



Controlling
Wireless
Sensors



Supplying
Drivers



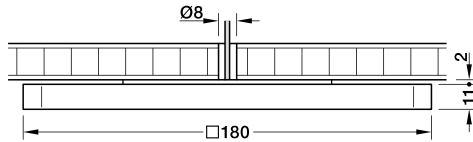
Ceiling light Module Q 49 Connect ON

Surface mounted downlight, 24 V, IP20

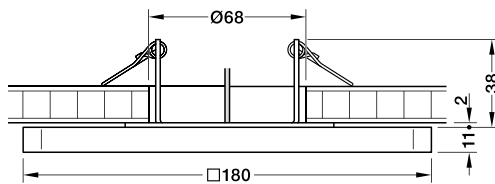
Pro 


- > Absolute glare-free light
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

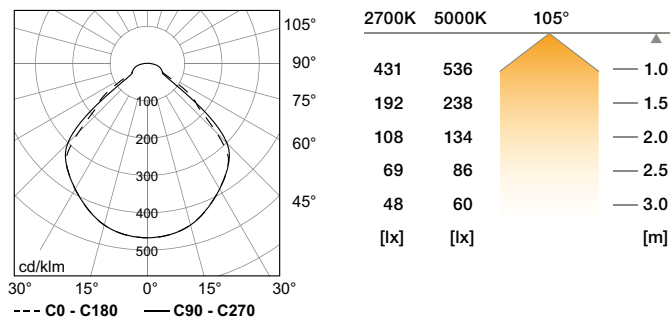
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Colour rendering index Ra:	>90
Number of LEDs:	98
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700-5000	9.5	870-1080	91-113	833.67.762

Installation reference

Light with permanent magnets for adhesion to mounting ring.
 Direct mounting: mounting ring for screw fixing to surfaces (drilling distance 79 mm)
 Cavity installation: mounting ring with spring clips (drill hole Ø 68 mm).

Note

Programming of wireless control components via app.
 Light receives control signals for on/off/dimming/colour change.
 Lead length from driver to device max. 10 m.
 Delivery Time : 90-120 Days

Order reference

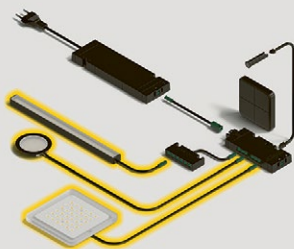
Colour control directly via remote controls from the Connect Mesh product range or smartphone.
 Installation of the free Häfele Connect Mesh app required.
 Important: Light supplied with voltage via 2-pin cables.
 Mounting ring for cavity installation 833.67.779.
 Please order separately.

Other versions

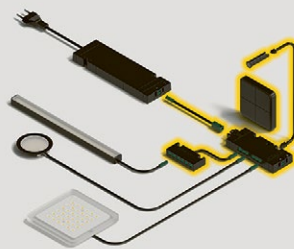
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

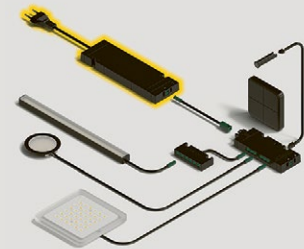
Lighting
 Linear light
 Furniture light



Controlling
Wireless
 Sensors



Supplying
 Drivers



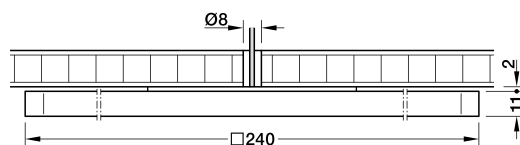
Ceiling light Module Q 64 Connect ON

Surface mounted downlight, 24 V, IP20

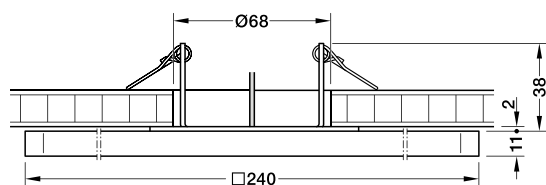
Pro 


- > Absolute glare-free light
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

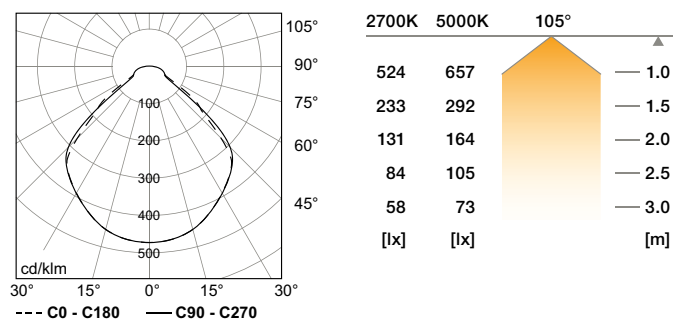
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Colour rendering index Ra:	>90
Number of LEDs:	128
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700–5000	12.5	1080–1355	86–108	833.67.763

Installation reference

Light with permanent magnets for adhesion to mounting ring.
 Direct mounting: mounting ring for screw fixing to surfaces (drilling distance 79 mm)
 Cavity installation: mounting ring with spring clips (drill hole Ø 68 mm).

Note

Programming of wireless control components via app.
 Light receives control signals for on/off/dimming/colour change.
 Lead length from driver to device max. 10 m.

Order reference

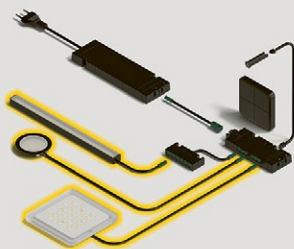
Colour control directly via remote controls from the Connect Mesh product range or smartphone.
 Installation of the free Häfele Connect Mesh app required.
 Important: Light supplied with voltage via 2-pin cables.
 Mounting ring for cavity installation 833.67.779.
 Please order separately.

Other versions

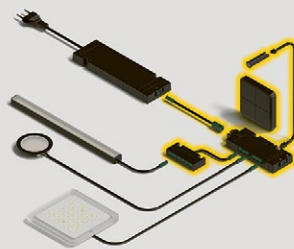
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

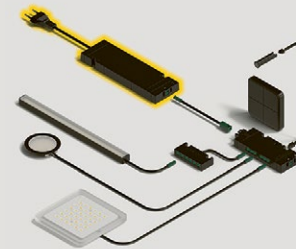
Lighting
 Linear light
 Furniture light



Controlling
 Wireless ③
 Sensors ③



Supplying
 Drivers



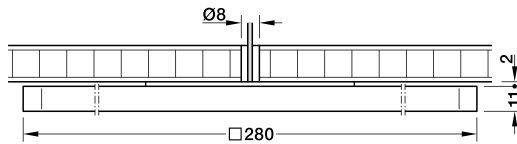
Ceiling light Module Q 100 Connect ON

Surface mounted downlight, 24 V, IP20

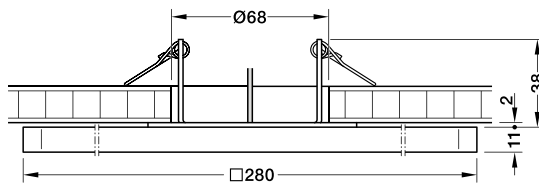
Pro 


- > Absolute glare-free light
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

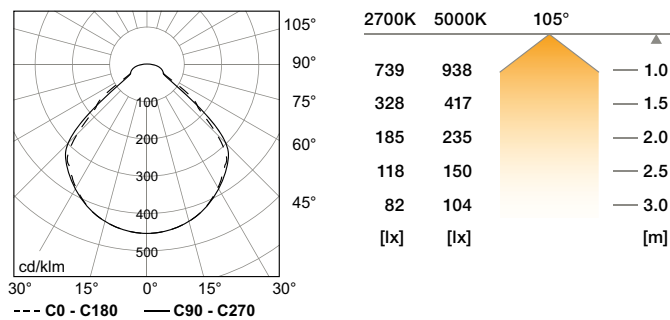
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Colour rendering index Ra:	>90
Number of LEDs:	200
Life time:	L80/B10 >50,000 hrs
Degree of protection:	IP20
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Surface mounted housing 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700-5000	21.0	1670-2120	93-118	833.67.764

Installation reference

Light with permanent magnets for adhesion to mounting ring.
 Direct mounting: mounting ring for screw fixing to surfaces (drilling distance 79 mm)
 Cavity installation: mounting ring with spring clips (drill hole Ø 68 mm).

Note

Programming of wireless control components via app.
 Light receives control signals for on/off/dimming/colour change.
 Lead length from driver to device max. 10 m.
 Delivery Time : 90-120 Days

Order reference

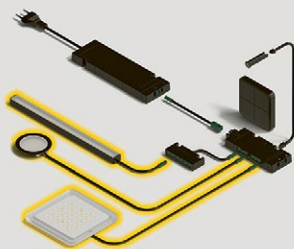
Colour control directly via remote controls from the Connect Mesh product range or smartphone.
 Installation of the free Häfele Connect Mesh app required.
 Important: Light supplied with voltage via 2-pin cables.
 Mounting ring for cavity installation 833.67.779.
 Please order separately.

Other versions

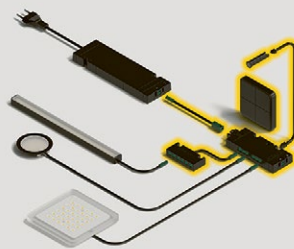
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

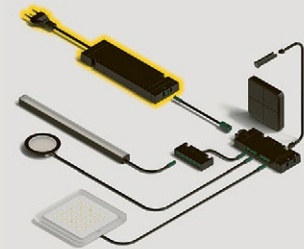
Lighting
 Linear light
 Furniture light



Controlling
Wireless
 Sensors



Supplying
 Drivers



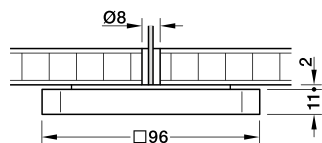
Ceiling light Module Q 16 ON

Surface mounted downlight, 24 V, IP20

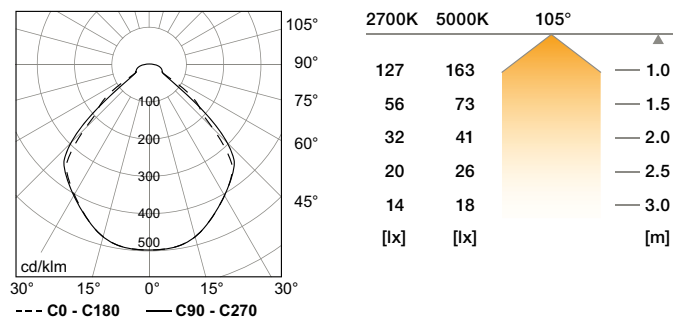
Pro 


- > Absolute glare-free light
- > Can be integrated into Connect Mesh control via distributor

Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Housing colour/finish:	Matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	16
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	Cat. No.
2700	2.9	380	131	105	833.68.420
3000		400	138		833.68.421
4000		430	148		833.68.422

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Other versions

You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

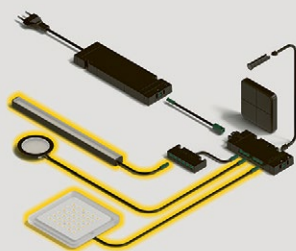
Note

Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

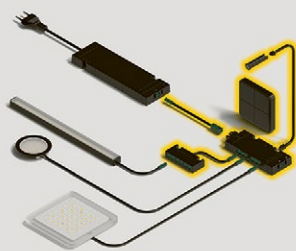
Linear light
Furniture light



Controlling

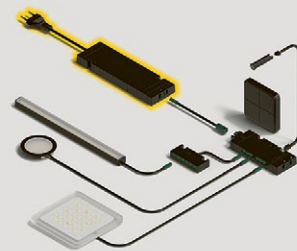
Wireless

Sensors
Actors



Supplying

Drivers



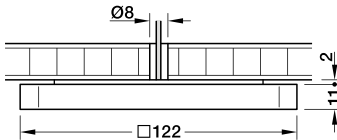
Ceiling light Module Q 36 ON

Surface mounted downlight, 24 V, IP20

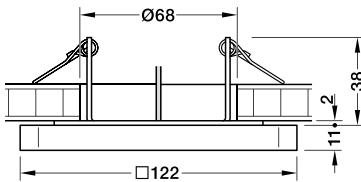
Pro 


- > Absolute glare-free light
- > Can be integrated into Connect Mesh control via distributor

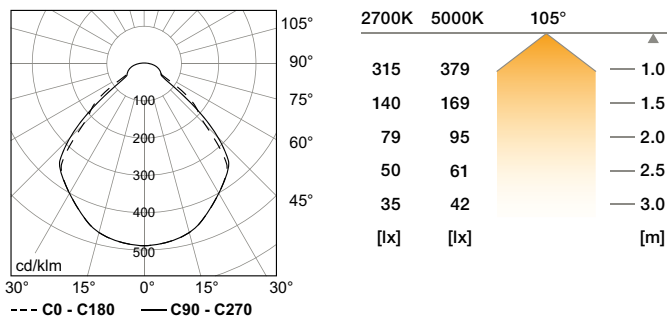
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Housing colour/finish:	Matt
Diffuser material:	Acrylic
Diffuser colour/finish:	Satin-finished frosted, matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	36
Life time:	L80 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)


Note

Light distribution and illuminance levels apply to all Q 36 variants on the next (page 220).

Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	Cat. No.
2700	7.3	840	115	105	833.68.423
3000		870	119		833.68.424
4000		940	129		833.68.425

Installation reference

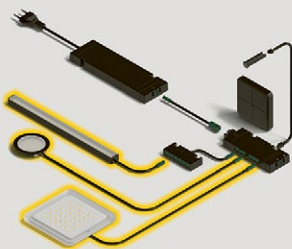
Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Other versions

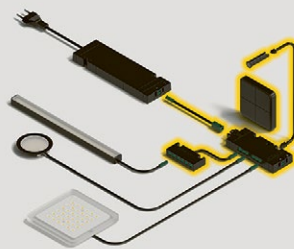
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

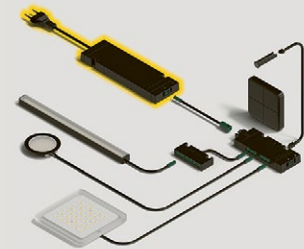
Lighting
Linear light
Furniture light



Controlling
Wireless
Sensors
Actors



Supplying
Drivers



Ceiling lights Module Q 36

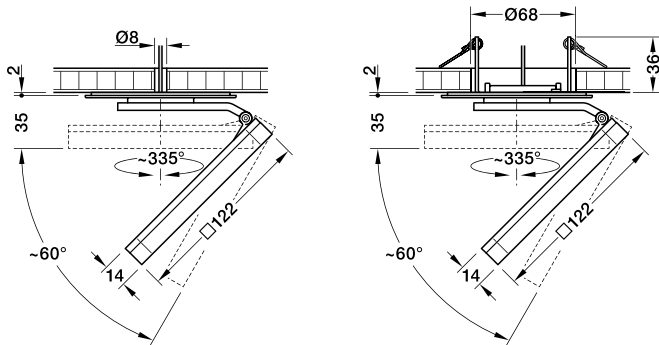
Module Q 36 TT, swivelling, surface mounted downlight, 24 V, IP20



- > Completely glare-free light, continuously swivelling in all directions, suitable for use as wall and accent lighting, among other things
- > Can be integrated into Connect Mesh control via distributor

Swivelling range of x-axis:	60°
Swivelling range of y-axis:	335°
Installation:	For screw fixing with magnetic mounting plate
Supplied with:	1 Light with lead 1 Ceiling installation sheet for cavity installation, including cover frame

Note
Light distribution and illuminance levels see Q 36 ON (page 218).



Direct fixing

Cavity installation (optional)

Module Q 36 TT Track, surface mounted downlight, 220 V, IP20, for 3-phase track system



- > Completely glare-free light, continuously swivelling in all directions, suitable for use as wall and accent lighting, among other things
- > Can be integrated into Connect Mesh control via distributor

Swivelling range of x-axis:	60°
Swivelling range of y-axis:	335°
Installation:	For plug fitting, For glue fixing
Supplied with:	1 Light 1 Driver for 3-phase track system

Note
Light distribution and illuminance levels see Q 36 ON (page 218).

Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	White, powder coated, matt	Black, powder coated, matt
2700	7.3	840	115	105	833.69.027	833.69.028
3000		870	119		833.69.029	833.69.030
4000		940	129		833.69.031	833.69.032

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Order reference

Mounting ring for cavity installation 833.67.780. please order separately.

Note

Delivery Time : 90-120 Days

Monochrome



					White, matt	Matt black
2700	8.6	840	98	105	833.69.057	833.69.058
3000		870	101		833.69.059	833.69.060
4000		940	109		833.69.061	833.69.062

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

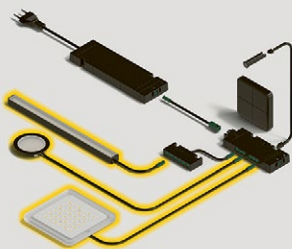
Note

Delivery Time : 90-120 Days



Lighting system. Additional components in the Häfele Lighting catalogue.

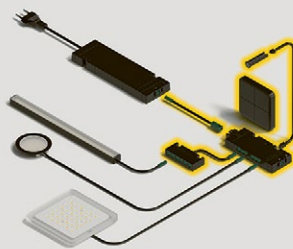
Lighting

Linear light
Furniture light

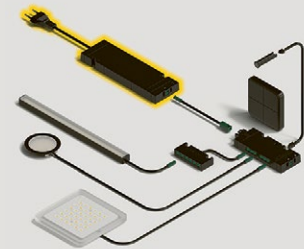


Controlling

Wireless 
Sensors 
Actors 



Supplying Drivers



Ceiling light Module Q 49 ON

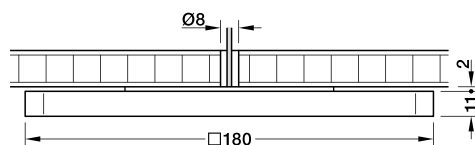
Surface mounted downlight, 24 V, IP20

Pro 

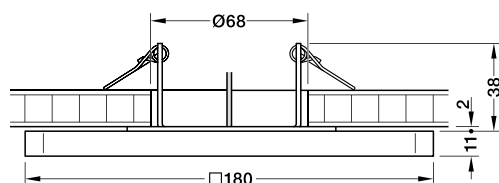
- > Absolute glare-free light
- > Can be integrated into Connect Mesh control via distributor



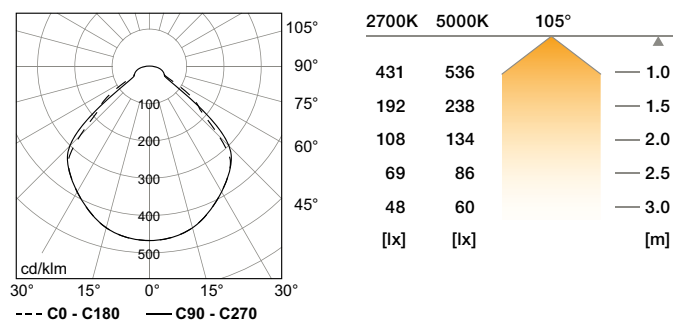
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Housing colour/finish:	Matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	49
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	Cat. No.
2700	10.0	1100	110	105	833.68.426
3000		1150	115		833.68.427
4000		1240	124		833.68.428

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Order reference

Mounting ring for cavity installation 833.67.779. please order separately.

Other versions:

You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

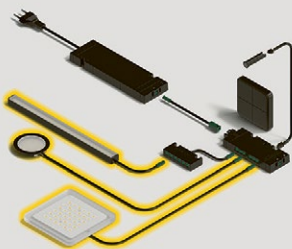
Note

Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

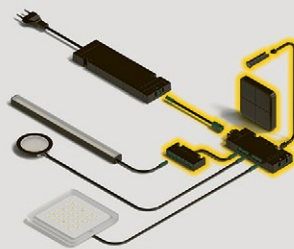
Linear light
Furniture light



Controlling

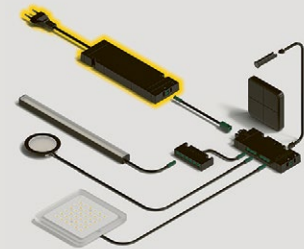
Wireless

Sensors
Actors



Supplying

Drivers



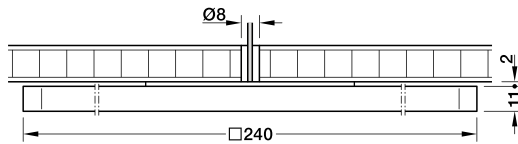
Ceiling light Module Q 64 ON

Surface mounted downlight, 24 V, IP20

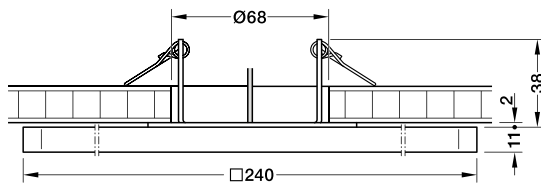
Pro 


- > Absolute glare-free light
- > Can be integrated into Connect Mesh control via distributor

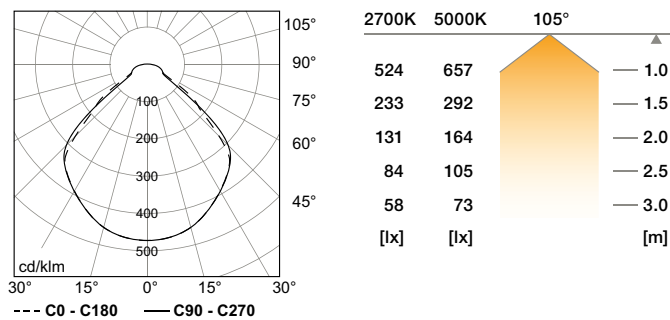
Dimmable:	Yes
Area of Application:	Ceiling light
Version:	With integrated power supply
Housing material:	Acrylic glass
Housing colour/finish:	Matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	64
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Surface mounted housing 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	Cat. No.
2700	11.5	1490	130	105	833.68.429
3000		1550	135		833.68.430
4000		1670	145		833.68.431

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Order reference

Mounting ring for cavity installation 833.67.779. please order separately.

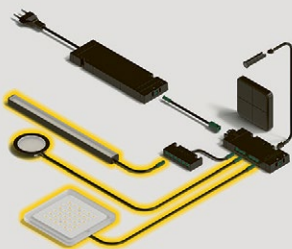
Other versions

You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

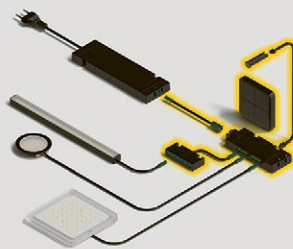
Linear light
Furniture light



Controlling

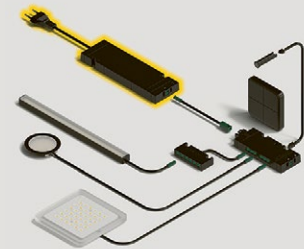
Wireless

Sensors
Actors



Supplying

Drivers



Ceiling light Module Q 100 ON

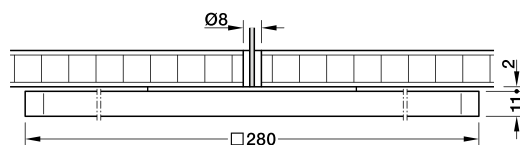
Surface mounted downlight, 24 V, IP20

Pro 

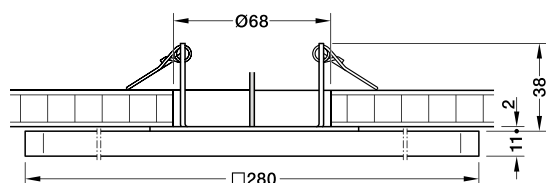
- > Absolute glare-free light
- > Can be integrated into Connect Mesh control via distributor



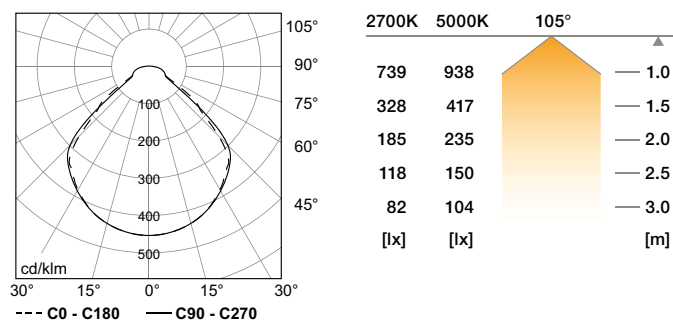
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Housing colour/finish:	Matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	100
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Surface mounted housing 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	Cat. No.
2700	18.5	2260	122	105	833.68.432
3000		2350	127		833.68.433
4000		2540	137		833.68.434

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Order reference

Mounting ring for cavity installation 833.67.779. please order separately.

Other versions

You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

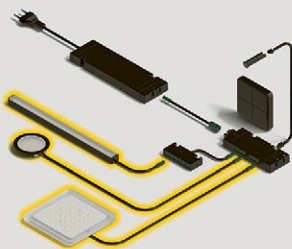
Note

Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

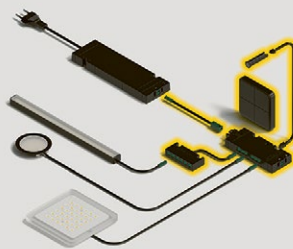
Linear light
Furniture light



Controlling

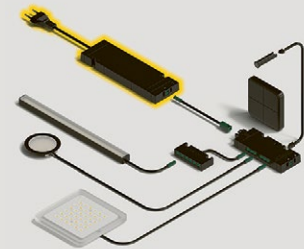
Wireless

Sensors
Actors



Supplying

Drivers



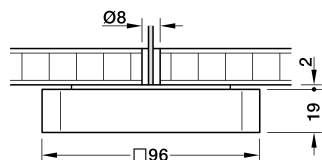
Cubic 16 Connect ON ceiling light

Surface mounted downlight, 24 V, IP20

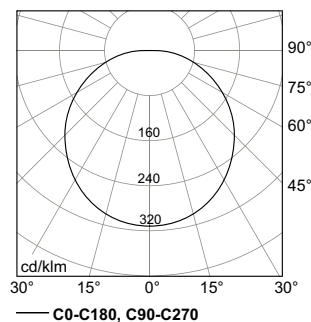
Pro 



- > Absolute glare-free light
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Colour rendering index Ra:	>90
Number of LEDs:	32
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



2700K	5000K	105°	
80	102		— 1.0
36	45		— 1.5
20	26		— 2.0
13	16		— 2.5
9	11		— 3.0
[lx]	[lx]		[m]

Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700–5000	3.5	220–280	63–80	833.67.765

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Mounting ring for screw fixing to surfaces (drilling distance 79 mm).

Note

Programming of wireless control components via app.
Light receives control signals for on/off/dimming/colour change.
Lead length from driver to device max. 10 m.
Delivery Time : 90-120 Days

Order reference

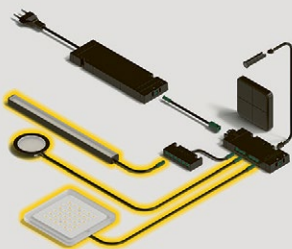
Colour control directly via remote controls from the Connect Mesh product range or smartphone.
Installation of the free Häfele Connect Mesh app required.
Important: Light supplied with voltage via 2-pin cables.
Please order separately.


Other versions

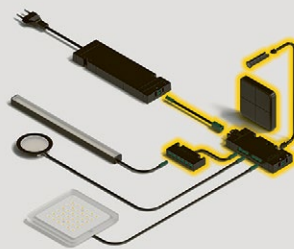
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

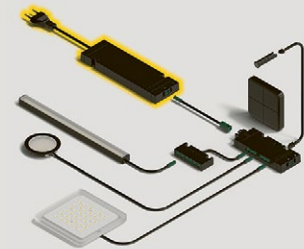
Lighting
Linear light
Furniture light



Controlling
Wireless 
Sensors 



Supplying
Drivers



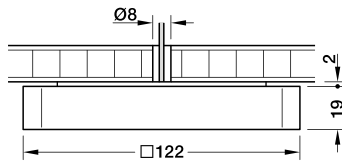
Cubic 36 Connect ON ceiling lights

Surface mounted downlight, 24 V, IP20

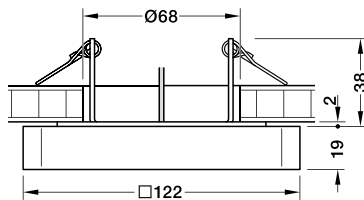
Pro 


- > Absolute glare-free light
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

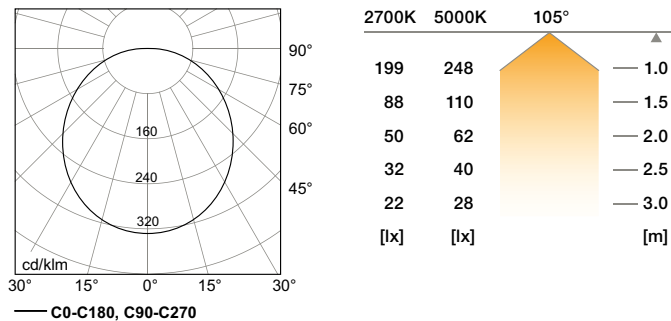
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Colour rendering index Ra:	>90
Number of LEDs:	72
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700–5000	7.5	555–690	74–92	833.67.766

Installation reference

Light with permanent magnets for adhesion to mounting ring.
 Direct mounting: mounting ring for screw fixing to surfaces (drilling distance 79 mm)
 Cavity installation: mounting ring with spring clips (drill hole Ø 68 mm).

Note

Programming of wireless control components via app.
 Light receives control signals for on/off/dimming/colour change.
 Lead length from driver to device max. 10 m.

Order reference

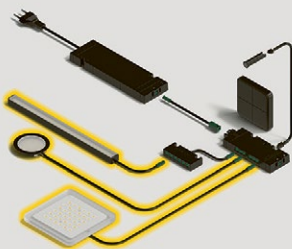
Colour control directly via remote controls from the Connect Mesh product range or smartphone.
 Installation of the free Häfele Connect Mesh app required.
 Important: Light supplied with voltage via 2-pin cables.
 Please order separately.



Other versions

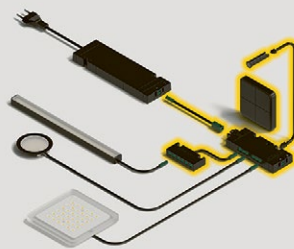
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

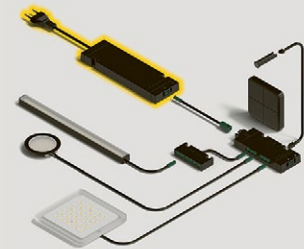
Lighting
 Linear light
 Furniture light



Controlling
Wireless 
 Sensors 



Supplying
 Drivers



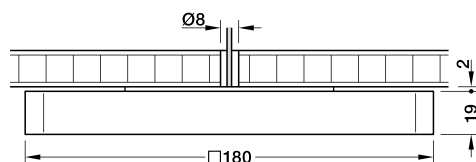
Cubic 49 Connect ON ceiling light

Surface mounted downlight, 24 V, IP20

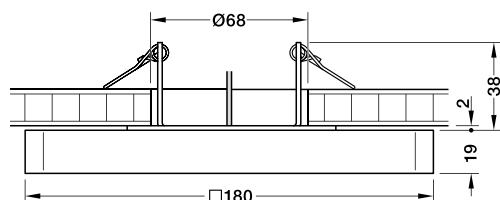
Pro 


- > Absolute glare-free light
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

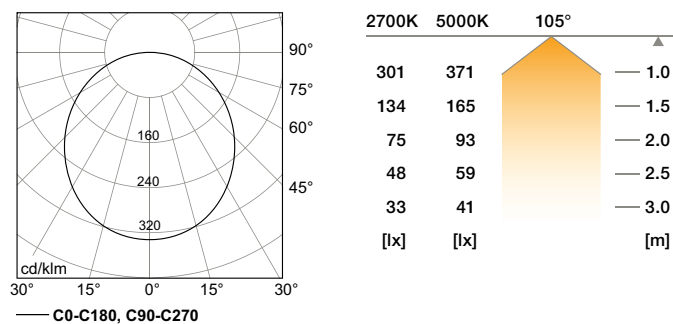
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Colour rendering index Ra:	>90
Number of LEDs:	98
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead



Direct fixing



Cavity installation (optional)



Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700-5000	9.5	790-975	83-102	833.67.767

Installation reference

Light with permanent magnets for adhesion to mounting ring.
 Direct mounting: mounting ring for screw fixing to surfaces (drilling distance 79 mm)
 Cavity installation: mounting ring with spring clips (drill hole Ø 68 mm).

Note

Programming of wireless control components via app.
 Light receives control signals for on/off/dimming/colour change.
 Lead length from driver to device max. 10 m.
 Delivery Time : 90-120 Days

Order reference

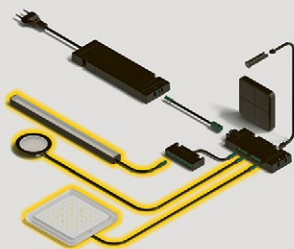
Colour control directly via remote controls from the Connect Mesh product range or smartphone.
 Installation of the free Häfele Connect Mesh app required.
 Important: Light supplied with voltage via 2-pin cables.
 Mounting ring for cavity installation 833.67.779.
 Please order separately.

Other versions

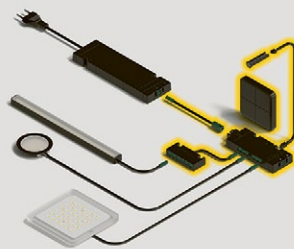
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

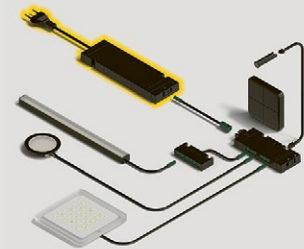
Lighting
 Linear light
 Furniture light



Controlling
Wireless
 Sensors



Supplying
 Drivers



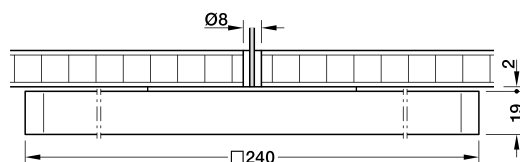
Cubic 64 Connect ON ceiling light

Surface mounted downlight, 24 V, IP20

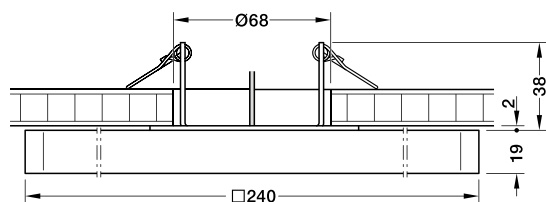
Pro 


- > Absolute glare-free light
- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

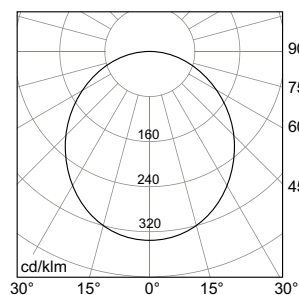
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Colour rendering index Ra:	>90
Number of LEDs:	128
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting




Direct fixing



Cavity installation (optional)



2700K	5000K	105°	
363	455		— 1.0
162	202		— 1.5
91	114		— 2.0
59	73		— 2.5
40	51		— 3.0
[lx]	[lx]		[m]

— C0-C180, C90-C270

Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Cat. No.
2700–5000	12.5	975–1220	78–97	833.67.768

Installation reference

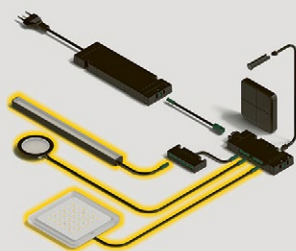
Light with permanent magnets for adhesion to mounting ring.
 Direct mounting: mounting ring for screw fixing to surfaces (drilling distance 79 mm)
 Cavity installation: mounting ring with spring clips (drill hole Ø 68 mm).

Note

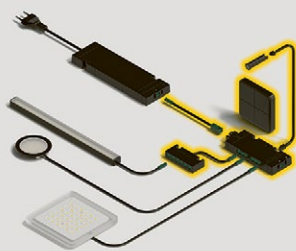
Programming of wireless control components via app.
 Light receives control signals for on/off/dimming/colour change.
 Lead length from driver to device max. 10 m.

Lighting system. Additional components in the Häfele Lighting catalogue.

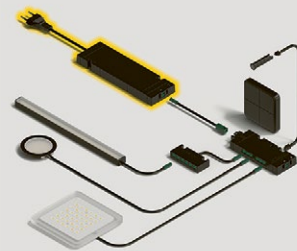
Lighting
 Linear light
 Furniture light



Controlling
Wireless
 Sensors



Supplying
 Drivers



Cubic 16 ON ceiling light

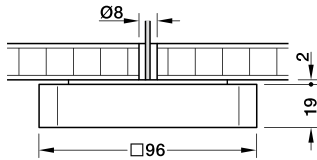
Surface mounted downlight, 24 V, IP20

Pro 

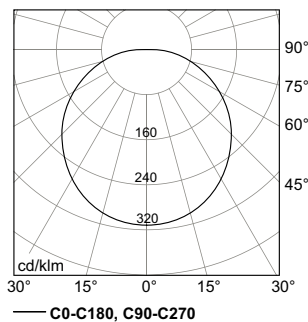



- > Absolute glare-free light
- > Can be integrated into Connect Mesh control via distributor

Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Housing colour/finish:	Matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	16
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



2700K	5000K	105°	
80	102		— 1.0
36	45		— 1.5
20	26		— 2.0
13	16		— 2.5
9	11		— 3.0
[lx]	[lx]		[m]

Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	Cat. No.
2700	2.9	360	124	105	833.68.435
3000		380	131		833.68.436
4000		410	141		833.68.437

Installation reference

Light with permanent magnets for adhesion to mounting ring.

Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Other versions

You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

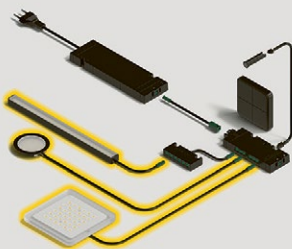
Note

Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

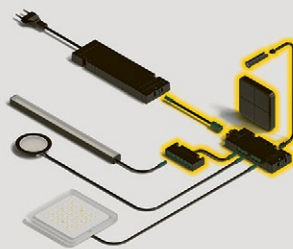
Linear light
Furniture light



Controlling

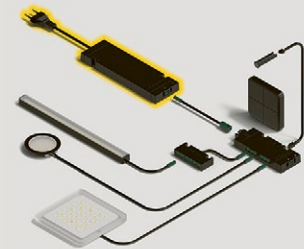
Wireless

Sensors
Actors



Supplying

Drivers



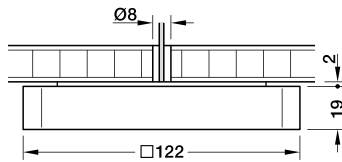
Cubic 36 ON ceiling light

Surface mounted downlight, 24 V, IP20

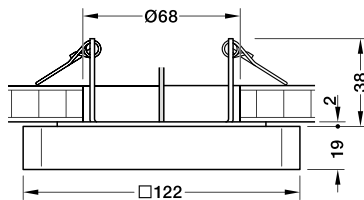
Pro 


- > Absolute glare-free light
- > Can be integrated into Connect Mesh control via distributor

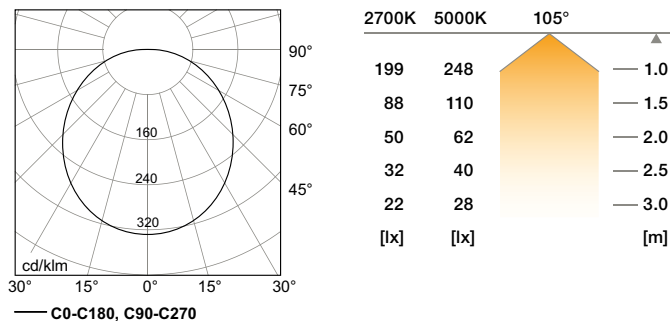
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Housing colour/finish:	Matt
Diffuser material:	Acrylic
Diffuser colour/finish:	Satin-finished frosted, matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	36
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	Cat. No.
2700	7.3	800	110	105	833.68.438
3000		830	114		833.68.439
4000		900	123		833.68.440

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Order reference

Mounting ring for cavity installation 833.67.779. please order separately.

Other versions

You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

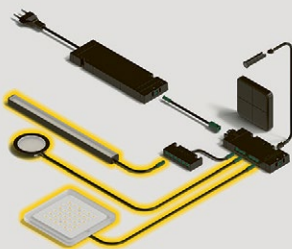
Note

Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

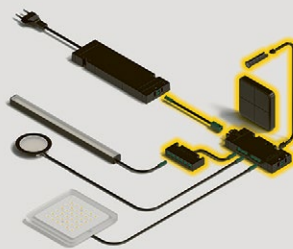
Linear light
Furniture light



Controlling

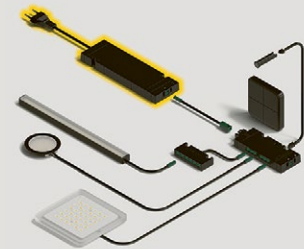
Wireless

Sensors
Actors



Supplying

Drivers



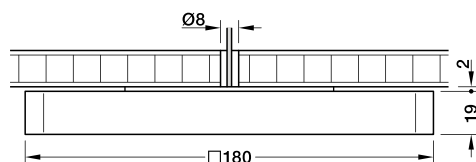
Cubic 49 ON ceiling light

Surface mounted downlight, 24 V, IP20

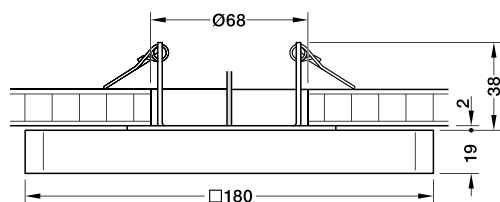
Pro 


- > Absolute glare-free light
- > Can be integrated into Connect Mesh control via distributor

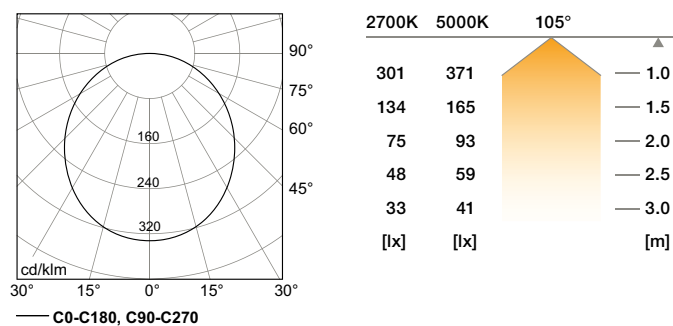
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Housing colour/finish:	Matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	49
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	Cat. No.
2700	10.0	1100	110	105	833.68.441
3000		1150	115		833.68.442
4000		1240	124		833.68.443

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Order reference

Mounting ring for cavity installation 833.67.779. please order separately.

Other versions

You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

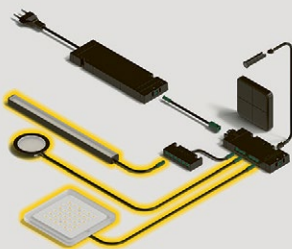
Note

Delivery Time : 90-120 Days




Lighting system. Additional components in the Häfele Lighting catalogue.

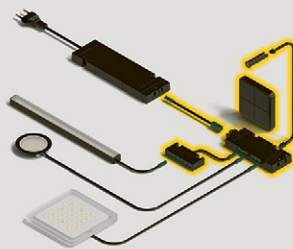
Lighting

Linear light
Furniture light

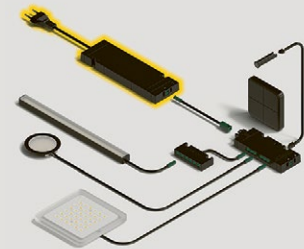


Controlling

Wireless 
Sensors 
Actors 



Supplying Drivers



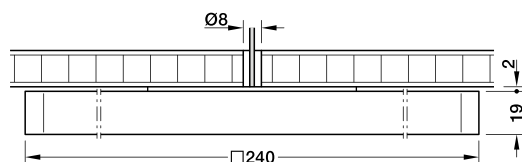
Cubic 64 ON ceiling light

Surface mounted downlight, 24 V, IP20

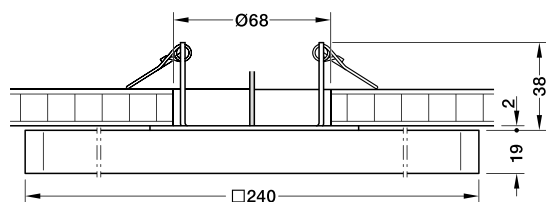
Pro 


- > Absolute glare-free light
- > Can be integrated into Connect Mesh control via distributor

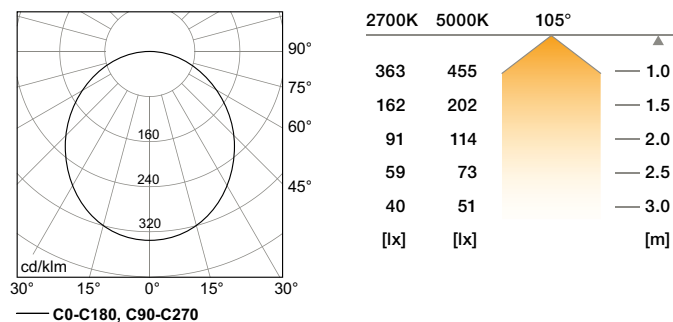
Dimmable:	Yes
Area of Application:	Ceiling light
Housing material:	Acrylic glass
Housing colour/finish:	Matt
Colour rendering index Ra:	>90
Colour rendering index R9:	>50
Number of LEDs:	64
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing with magnetic mounting plate
Cable length:	200 mm
Supplied with:	1 Light with lead 1 Mounting ring for direct mounting



Direct fixing



Cavity installation (optional)



Monochrome



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Beam angle °	Cat. No.
2700	11.5	1420	123	105	833.68.444
3000		1480	129		833.68.445
4000		1600	139		833.68.446

Installation reference

Light with permanent magnets for adhesion to mounting ring.
Direct mounting: Mounting ring for screw fixing to surfaces (drilling distance 79 mm) or to cavity box (drilling distance 60 mm).

Order reference

Mounting ring for cavity installation 833.67.779. please order separately.

Other versions

You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

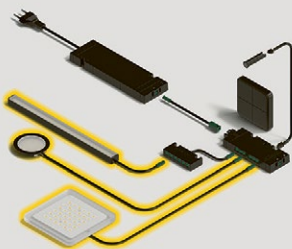
Note

Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

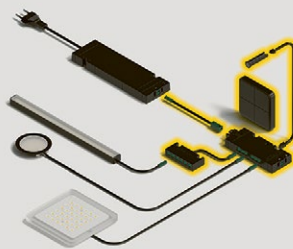
Linear light
Furniture light



Controlling

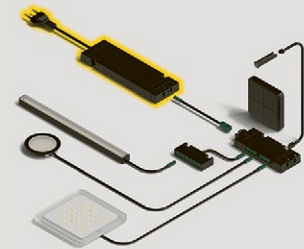
Wireless

Sensors
Actors



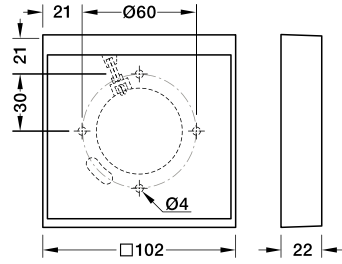
Supplying

Drivers



Zen Connect wall light

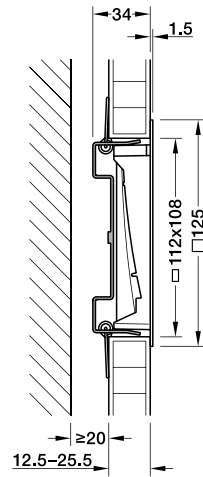
Wall light close to floor, 24 V, IP20



- > Direct control via Connect Mesh (without distributors)
- > EasyPairing

Dimmable:	Yes
Area of Application:	Orientation light close to the floor, e.g. in corridors, stairwells
Housing material:	Plastic
Dimensions (W x H x D):	102 x 102 x 22 mm
Colour rendering index Ra:	>90
Number of LEDs:	28
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing/For clamping
Cable length:	40 mm
Supplied with:	1 Light with lead 1 Cover frame

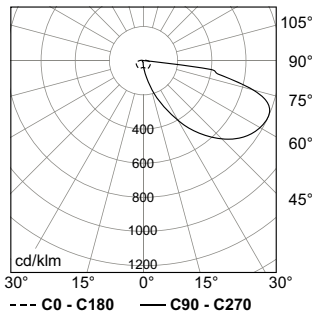
Zen Connect ON



Zen Connect IN



Cavity installation



	2700K	5000K	60°	
	77	101		— 0.5
	7	10		— 1.0
	2	2		— 1.5
	[lx]	[lx]		[m]

Tunable white



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	White	Black
Zen Connect ON					
2700–5000	1.7	105–135 70–100	62–79 41–59	833.67.994 –	– 833.67.995

Installation reference

Light is pre-drilled for fitting to cavity wall box or flush-mounted box 68 mm.
Fitting to hollow wall without box is possible.
Fixing material is required on site.

Tunable white



Zen Connect IN					
2700–5000	1.7	105–135 70–100	62–79 41–59	833.67.996 –	– 833.67.997

Installation reference

Wall cut-out 108 x 112 mm, wall thickness 12.5–25.5 mm, cavity behind wall min. 20 mm

Note

Programming of wireless control components via app.
Light receives control signals for on/off/dimming/colour change.
Lead length from driver to device max. 10 m.

Order reference

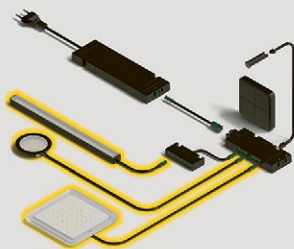
Colour control directly via remote controls from the Connect Mesh product range or smartphone.
Installation of the free Häfele Connect Mesh app required.
Important: Light supplied with voltage via 2-pin cables.
Please order separately.

Other versions

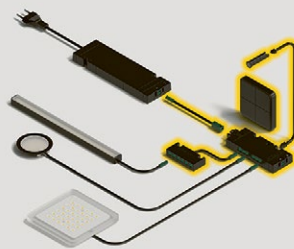
You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

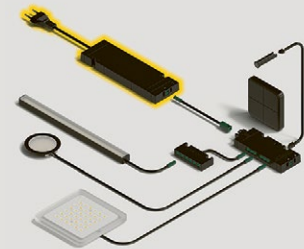
Lighting
Linear light
Furniture light



Controlling
Wireless ⓘ
Sensors ⓘ

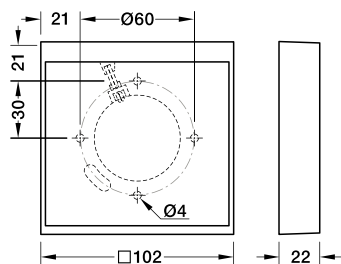


Supplying
Drivers



Zen wall light

Wall light close to floor, 24 V, IP20

Pro 


> Can be integrated into Connect Mesh control via distributor

Dimmable:	Yes
Area of application:	Orientation light close to the floor, e.g. in corridors, stairwells
Housing material:	Plastic
Dimensions (W x H x D):	102 x 102 x 22 mm
Colour rendering index Ra:	>90
Number of LEDs:	14
Life time:	L80/B10 >50,000 hrs
Installation:	For screw fixing/For clamping
Cable length:	40 mm
Supplied with:	1 Light with lead 1 Cover frame

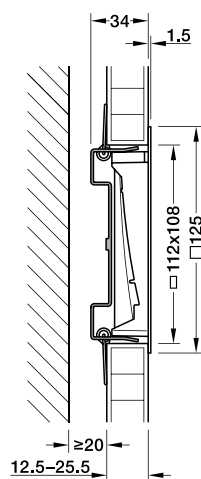
Zen ON



White



Black



Cavity installation

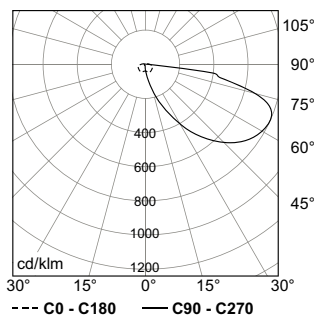
Zen IN




White



Black



	2700K	5000K	60°	
	77	101		— 0.5
	7	10		— 1.0
	2	2		— 1.5
	[lx]	[lx]		[m]

Monochrom



Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	White, matt	Matt black
Zen ON					
2700	1.5	150 100	100 67	833.69.207 -	- 833.69.208
3000	1.5	160 105	107 70	833.69.209 -	- 833.69.210
4000	1.5	170 110	113 73	833.69.211 -	- 833.69.212

Installation reference

Light is pre-drilled for fitting to cavity wall box or flush-mounted box 68 mm.
Fitting to hollow wall without box is possible. Fixing material is required on site.

Note

Delivery Time : 90-120 Days

Monochrom



				White	Black
Zen IN					
2700	1.5	150 100	100 67	833.69.213 -	- 833.69.214
3000	1.5	160 105	107 70	833.69.215 -	- 833.69.216
4000	1.5	170 110	113 73	833.69.217 -	- 833.69.218

Installation reference

Wall cut-out 108 x 112 mm, wall thickness 12.5–25.5 mm, cavity behind wall min. 20 mm

Note

Lead length from driver to device max. 10 m.
Delivery Time : 90-120 Days

Order reference

Colour control directly via remote controls from the Connect Mesh product range or smartphone.
Installation of the free Häfele Connect Mesh app required.
Important: Light supplied with voltage via 2-pin cables.
Please order separately.

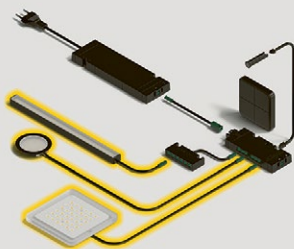
Other versions

You will find the surface mounted variants -X and -XD as additional solutions in the online shop.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

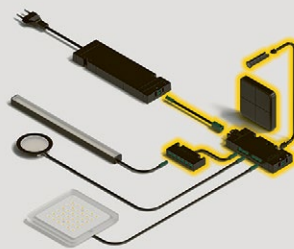
Linear light
Furniture light



Controlling

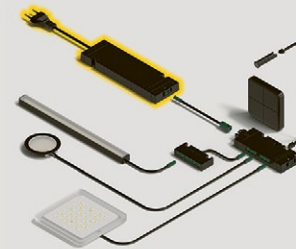
Wireless

Sensors
Actors



Supplying

Drivers

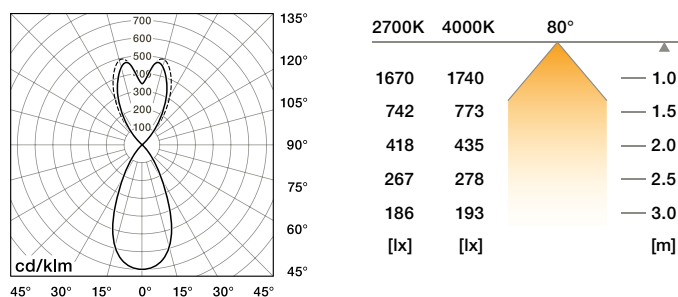
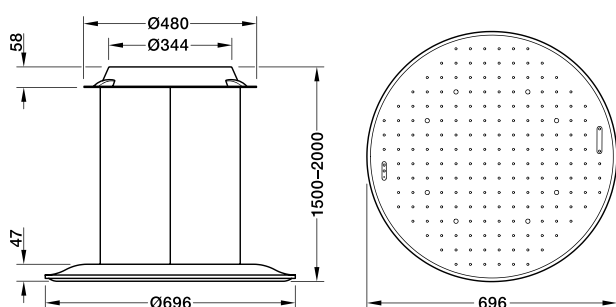


Lighting Pad Lounge R 600 Vario

Pendant light, 230 V, 60 W, IP20

Pro 


Body: Santos palisander, Acoustic pad: Black (Black Ink)



----- C0-C180
 — C90-C270

- > Unique: Cabinet made from real wood veneer
- > Acoustic pad for pleasant conversation atmosphere
- > Glare-free direct and indirect light
- > Gesture control on the underside of the luminaire or wireless via Häfele Connect Mesh
- > EasyPairing

Dimmable:	Yes
Area of application:	Dining and living room, lounge, bar, meeting zone, Ambient temperature 20 °C to 35 °C
Version:	Acoustically effective pendant light with moulded plywood cabinet, acoustic pad made from plastic (flame retardant: B-s1, d0), plastic/metal canopy, direct light directed downwards (approx. 49%), indirect light directed upwards (approx. 51%), Pendant length: 500–2000 mm, height adjustable. Canopy with integrated spring lift mechanism (Variolift) and operating equipment. On/Off switching, Dimming and adjusting the light colour via gesture control on the underside of the luminaire and via Häfele Connect Mesh (Bluetooth®).
Diameter:	696 mm
Colour rendering index Ra:	≥90
Number of LEDs:	92
Life time:	L80 >50,000 hrs
Pendulum length:	500–2000 mm
Degree of protection:	IP20
Installation:	Mounting plate (for screw fixing)
Sound proofing value:	Sound absorption class B
Supplied with:	1 Pendant light for 230 V direct connection



Tunable white



Housing material	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Acoustic pad black	Acoustic pad grey	Acoustic pad white
Santos Palisander	2700–4000	54.0	3500	65	833.67.256	833.67.494	833.67.289
Black cherry					833.67.257	833.67.492	833.67.493
Oak					833.67.490	833.67.260	833.67.491
Ebony					833.67.610	833.67.613	833.67.612

Note

Energy efficiency class:

This product contains light sources in energy efficiency classes E (indirect light) and F (direct light).
Delivery Time : 90-120 Days

Natural product:

The moulded plywood light body is a natural product that is subject to natural colour and grain fluctuations.

The wooden surfaces are protected by a finishing agent, and can change colour over time under the influence of light.

Order reference

Fixing material not supplied, please order separately.

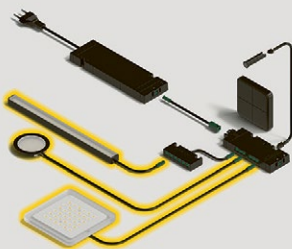
Control via Häfele Connect Mesh remote control or wall switch.



Please order separately.

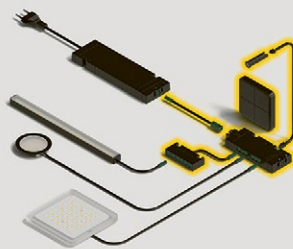
The free Häfele Connect Mesh app must be installed to configure the radio remote control and the wall-mounted push button or for direct control with a mobile device.

Lighting system. Additional components in the Häfele Lighting catalogue.

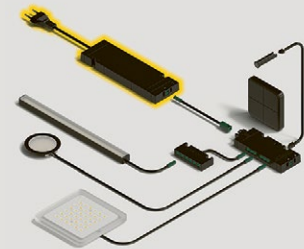
Lighting
Linear light
Furniture light



Controlling
Wireless 
Sensors 



Supplying

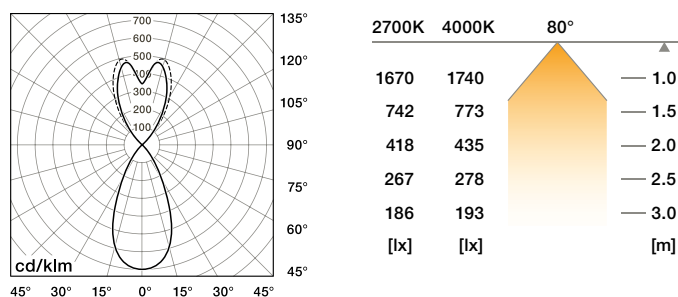
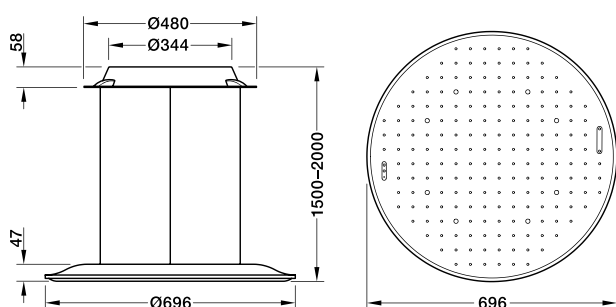


Lighting Pad Lounge R 600

Pendant light, 230 V, 60 W, IP20



Body: Santos palisander, Acoustic pad: Black (Black Ink)



----- C0-C180
 — C90-C270

- > Unique: Cabinet made from real wood veneer
- > Acoustic pad for pleasant conversation atmosphere
- > Glare-free direct and indirect light
- > Gesture control on the underside of the luminaire or wireless via Häfele Connect Mesh
- > EasyPairing

Dimmable:	Yes
Area of application:	Dining and living room, lounge, bar, meeting zone, Ambient temperature 20 °C to 35 °C
Version:	Acoustically effective pendant light with moulded plywood cabinet, acoustic pad made from plastic (flame retardant: B-s1, d0), plastic/metal canopy, direct light directed downwards (approx. 49%), indirect light directed upwards (approx. 51%), Pendant length: 500–2000 mm. Canopy with integrated operating equipment. On/off switching, Dimming and adjusting the light colour via gesture control on the underside of the luminaire and via Häfele Connect Mesh (Bluetooth®).
Diameter:	696 mm
Colour rendering index Ra:	≥90
Number of LEDs:	92
Life time:	L80 >50,000 hrs
Pendulum length:	500–2000 mm
Degree of protection:	IP20
Installation:	Mounting plate (for screw fixing)
Sound proofing value:	Sound absorption class B
Supplied with:	1 Pendant light for 230 V direct connection



Tunable white



Housing material	Colour temperature K	Wattage W	Luminous flux lm	Luminous efficiency lm/W	Acoustic pad black	Acoustic pad grey	Acoustic pad white
Santos Palisander	2700–4000	54.0	3500	65	833.67.258	833.67.499	833.67.290
Black cherry					833.67.259	833.67.497	833.67.498
Oak					833.67.495	833.67.261	833.67.496
Ebony					833.67.608	833.67.609	833.67.611

Note

Energy efficiency class:

This product contains light sources in energy efficiency classes E (indirect light) and F (direct light).
Delivery Time : 90-120 Days

Natural product:

The moulded plywood light body is a natural product that is subject to natural colour and grain fluctuations.

The wooden surfaces are protected by a finishing agent, and can change colour over time under the influence of light.

Order reference

Fixing material not supplied, please order separately.

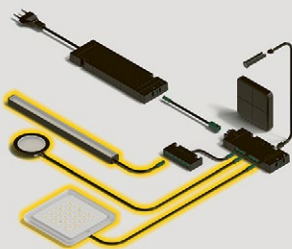
Control via Häfele Connect Mesh remote control or wall switch.

Please order separately.

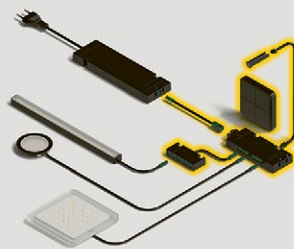
The free Häfele Connect Mesh app must be installed to configure the radio remote control and the wall-mounted push button or for direct control with a mobile device.

Lighting system. Additional components in the Häfele Lighting catalogue.

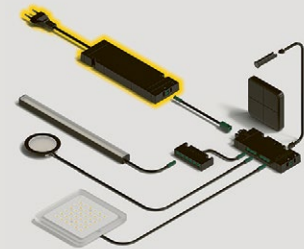
Lighting
Linear light
Furniture light



Controlling
Wireless
Sensors



Supplying



Control.

HAFELE Lighting

The Catalogue.



The products.

Wireless control 236

- Sensors 236
- Actors 252
- Control accessories 258

Wired control 264

- Sensors 264
- Actors 278
- Control accessories 288



Controlling

Wireless Sensors



Furniture switch
Page 236



Wall push button
Page 240



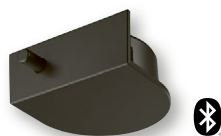
Remote control
Page 238



Motion sensor modular
Page 240



Motion sensor battery
Page 244



Door contact switch
Page 246



2-channel Interface
Page 248

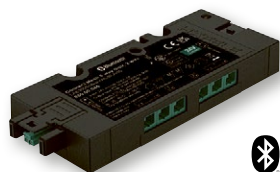


4-channel interface
Page 250

Actors



2-way distributor
Page 252

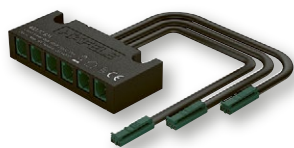


6-way distributor
Page 254



Radio receiver
Page 256

Controlling accessories



6-way adapter
Page 258



Gateway
Page 262



Connect Mesh App



Connect Mesh App
For Android



Connect Mesh App
For iOS

- Monochrome
- Tunable white, requires components with 2-wire technology (e.g. distributors, leads)
- Tunable white, requires components with 3-wire technology (e.g. distributors, leads)
- RGB

**Wired
Sensors**



Dimmer switch modular
Page 264



Dimmer switch capacitive
Page 268



Inline dimmer switch
Page 270



Dimmer interface
Page 272



Mechanical switches
Page 274



Door switches
Page 276

Actors



2-way distributor
Page 278



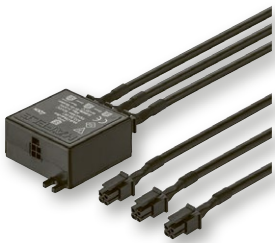
6-way distributor
Page 280



6-way distributor
Page 284



2-way distributor DALI/Push/1-10 V
Page 286



Multi boxes
Page 288

Controlling accessories



Leads
Page 292



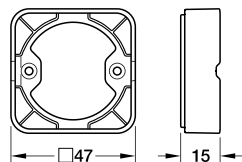
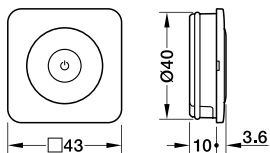
Furniture switch, multi-functional Connect Mesh



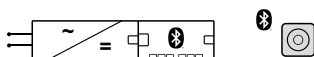
White



Black



Frame



- > Controls all light colours (monochrome, tunable white, RGB)
- > EasyPairing

Functionality

Programming of all functions via app and EasyPairing.

Area of application:

For controlling components at Connect Mesh distributors and all luminaires with integrated Mesh chip (OneCable, R One Connect, Q Four Connect, Modul Q Connect, Cubic Connect, Zen Connect)

Switching function:	On/Off, Dimming, Soft colour change
Material:	Plastic
Dim. (L x W x H):	47 x 47 x 15 mm
Type of battery:	Lithium
Battery size IEC standard:	CR2032
Battery integration:	Exchangeable
Battery service life:	1,800 duty cycles
Signal transmission:	Bluetooth®
Ambient temperature:	10–45 °C
Mounting:	Drilling in and clamping for screw fixing
Supplied with:	1 Furniture switch 1 Surface-mounted housing

Colour/finish	Frame	Cat. No.
Furniture switch, multifunctional		
White	Plastic, white	850.00.252
Black	Plastic, white	850.00.952
	Plastic, black	850.00.152

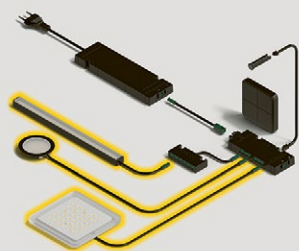
Order reference

Please order CR2032 battery (002.99.032) separately.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

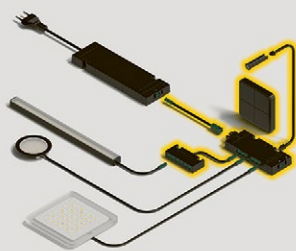
Linear light
Furniture light
Ceiling, wall light



Controlling

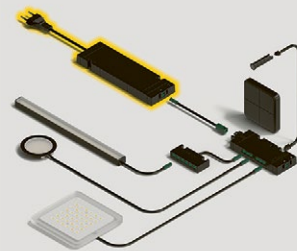
Wireless

Actors

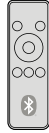
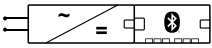


Supplying

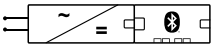
Drivers



Connect Mesh remote control



6 Channel remote control



1 Channel remote control

- > Controls all light colours (monochrome, tunable white, RGB)
- > EasyPairing

Functionality

Programming of all functions via app and EasyPairing.

Area of application: For controlling components at Connect Mesh distributors and all luminaires with integrated Mesh chip (OneCable, R One Connect, Q Four Connect, Modul Q Connect, Cubic Connect, Zen Connect)

Switching function: On/Off, Dimming, Soft colour change

Material: Plastic

Dim. (L x W x H): 6 Channel: 130 x 42 x 11 mm
1 Channel: 125 x 40 x 12 mm

Type of battery: Lithium

Battery size IEC standard: CR2032

Battery integration: Exchangeable

Battery service life: 6 Channel: 3,600 duty cycles
1 Channel: 1,800 duty cycles

Signal transmission: Bluetooth®

Ambient temperature: 10–45 °C

Installation: Magnetic adhesion

6 Channel remote control

Colour/finish	Frame	Cat. No.
Remote control without batteries		
Black	Plastic, white	850.00.040
	Plastic, black	850.00.140

Order reference

Please order CR2032 battery (002.99.032) separately.

Note

Delivery Time : 90-120 Days

1 Channel remote control

Black	Plastic, white	850.00.950
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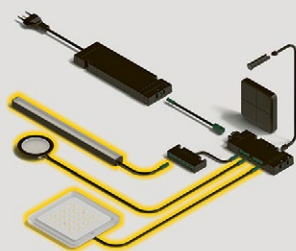
Order reference

CR2032 battery (002.99.032) included in delivery.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

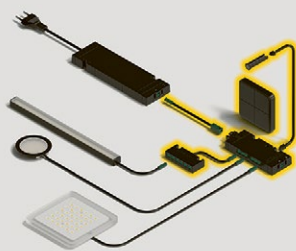
Linear light
Furniture light
Ceiling, wall light



Controlling

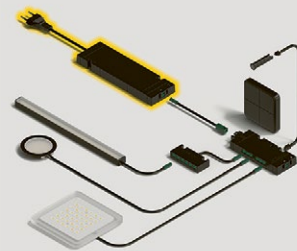
Wireless ③

Actors ③

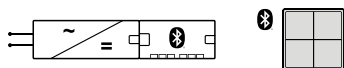


Supplying

Drivers



Connect Mesh 4-way wall mounted push button



- > Controls all light colours (monochrome, tunable white, RGB)
- > Wall mounted push button can be positioned freely in the room
- > EasyPairing

Functionality

Programming of all functions via app and EasyPairing.

Area of application: For controlling components at Connect Mesh distributors and all luminaires with integrated Mesh chip (OneCable, R One Connect, Q Four Connect, Modul Q Connect, Cubic Connect, Zen Connect)

Version:	4-button panel
Material:	Plastic
Dim. (L x W x H):	81 x 81 x 12 mm
Type of battery:	Lithium
Battery size IEC standard:	CR2430
Battery integration:	Exchangeable
Battery service life:	1,800 duty cycles
Signal transmission:	Bluetooth®
Ambient temperature:	10–45 °C
Installation:	For screw fixing, with enclosed holder

Colour/finish	Frame	Cat. No.
4-way wall mounted push button without battery		
Black	Plastic, white	850.00.041
	Plastic, black	850.00.141

Order reference

Please order CR2430 battery (002.99.034) separately.

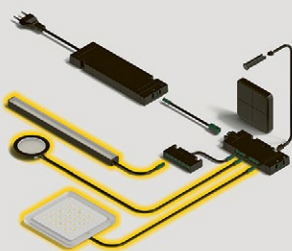
Note

Delivery Time : 90-120 Days



Lighting system. Additional components in the Häfele Lighting catalogue.

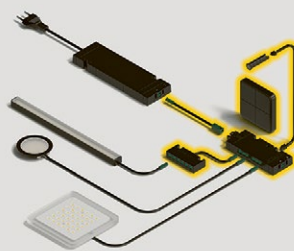
Lighting

Linear light
Furniture light
Ceiling, wall light



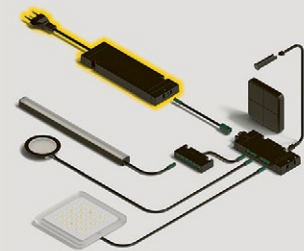
Controlling

Wireless 
Actors 



Supplying

Drivers



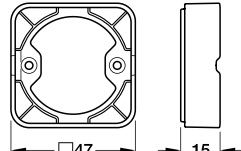
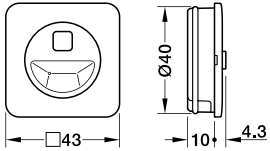
Connect Mesh motion detector Modular



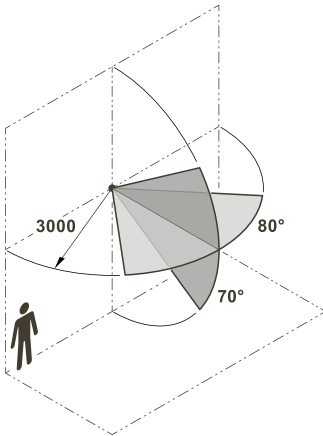
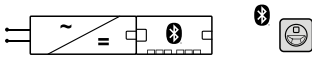
White



Black



Frame



Sensor range

- > The functions of the motion sensor and the brightness sensor are programmed via an app. The modular leads are only required for the power supply. The switching signal is transmitted via Bluetooth®
- > EasyPairing

Functionality

Programming of all functions via app and EasyPairing.

Area of application: For controlling components at Connect Mesh distributors and all luminaires with integrated Mesh chip (OneCable, R One Connect, Q Four Connect, Modul Q Connect, Cubic Connect, Zen Connect)

Switching function: On/Off
Twilight threshold value

Material: Plastic

Dim. (L x W x H): 47 x 47 x 15 mm

Power consumption: 2 W

Horizontal sensor angle: 80°

Vertical sensor bracket: 70°

Sensor range: 3000 mm

Signal transmission: Bluetooth®

Ambient temperature: 10–45 °C

Mounting: Drilling in and clamping
for screw fixing

Supplied with: 1 Motion sensor
1 Surface-mounted housing

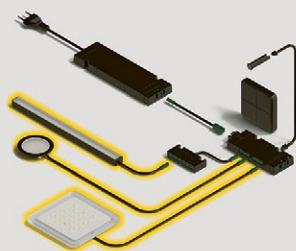
Colour/finish	Other housing features	Cat. No.
Motion detector		
White	Frame: plastic, white	850.00.255
Black	Frame: plastic, white	850.00.955

Note
After-run time and brightness sensor threshold value adjustable via an app.

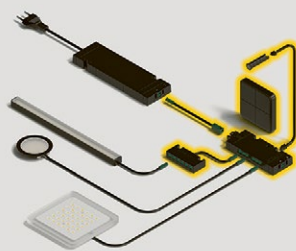
Order reference
Please order lead (833.95.791) separately.

Lighting system. Additional components in the Häfele Lighting catalogue.

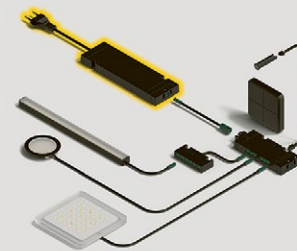
Lighting
Linear light
Furniture light
Ceiling, wall light



Controlling
Wireless
Actors



Supplying
Drivers



Connect Mesh motion detector

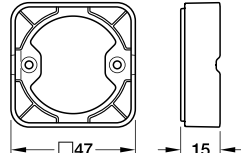
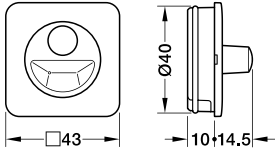
Battery-operated



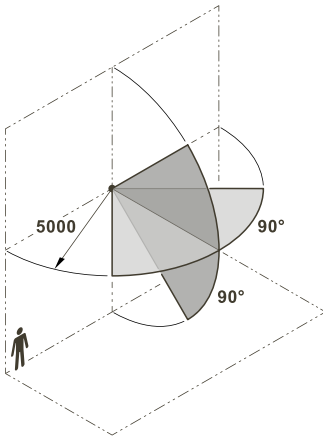
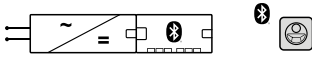
White



Black



Frame



Sensor range

Sensor range 5000 mm with temperature difference of 4 °C between surroundings and moving object. Range up to 7000 mm at a difference of 8° C.

- > The functions of the motion sensor and the brightness sensor are programmed via an app.
- > EasyPairing

Functionality

Programming of all functions via app and EasyPairing.

Area of application:	For controlling components at Connect Mesh distributors and all luminaires with integrated Mesh chip (OneCable, R One Connect, Q Four Connect, Modul Q Connect, Cubic Connect, Zen Connect)
Switching function:	On/Off Twilight threshold value
Material:	Plastic
Dim. (L x W x H):	47 x 47 x 15 mm
Type of battery:	Lithium
Battery size IEC standard:	CR2032
Battery integration:	Exchangeable
Battery service life:	1,800 duty cycles
Horizontal sensor angle:	90°
Vertical sensor bracket:	90°
Sensor range:	5000 mm
Signal transmission:	Bluetooth®
Ambient temperature:	10–45 °C
Mounting:	Drilling in and clamping, for screw fixing
Supplied with:	1 Motion sensor 1 Surface-mounted housing

Colour/finish	Other housing features	Cat. No.
Motion detector		
White	Frame: plastic, white	850.00.253
Black	Frame: plastic, white	850.00.953

Note

After-run time and brightness sensor threshold value adjustable via an app.

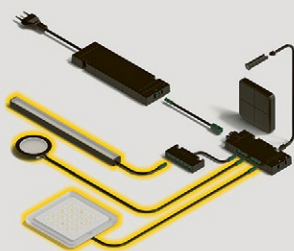
Order reference

The motion detector requires 1 CR2032 button cell lithium battery (002.99.032), please order separately.

Lighting system. Additional components in the Häfele Lighting catalogue.

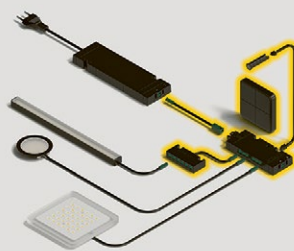
Lighting

- Linear light
- Furniture light
- Ceiling, wall light



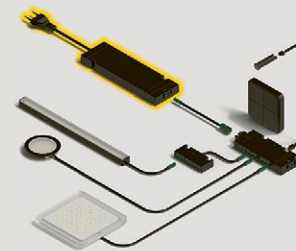
Controlling

- Wireless** ③
- Actors ③

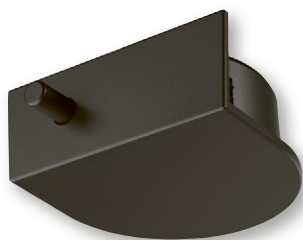


Supplying

- Drivers



Connect Mesh radio-interlinked door contact switch

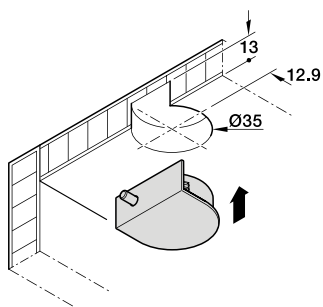


White

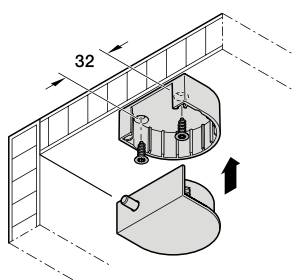
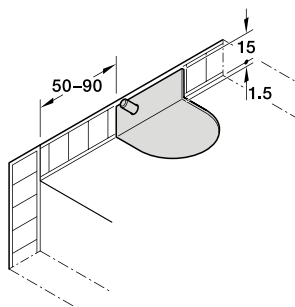


Black

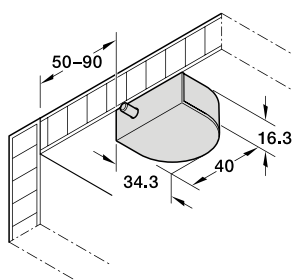
- > Individual position (without cable)
- > Maintenance-free (without batteries)
- > Tappet interchangeable depending on gap size
- > Recess mounting or surface mounting
- > Programming of all functions via app
- > Programming possible even without app



Recess mounting in cabinet top panel



Surface mounting beneath cabinet top panel



Area of application:	For controlling components at Connect Mesh distributors and all luminaires with integrated Mesh chip (OneCable, R One Connect, Q Four Connect, Modul Q Connect, Cubic Connect, Zen Connect)
Version:	Mechanical release device for door contact
Material:	Plastic
Dim. (L x W x H):	34.3 x 40.0 x 16.3 mm
Type of battery:	Without battery, pure kinetic energy
Switching function:	On/Off
Duty cycles max.:	100,000
Signal transmission:	Bluetooth®
Installation:	Drilling in and clamping, for screw fixing
Supplied with:	1 Door contact switch 1 Housing for undermounted light

Colour/finish

Black
White

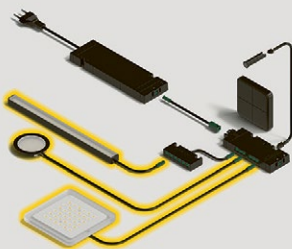
Cat. No.
850.00.956
850.00.256

Installation reference

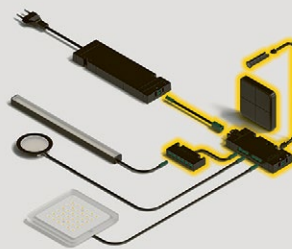
Place switches at the locking side of the door.
Please note the specified distances of the installation drawing.

Lighting system. Additional components in the Häfele Lighting catalogue.

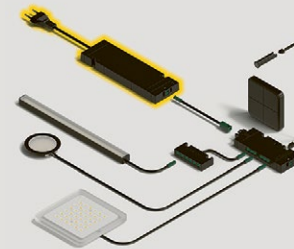
Lighting
Linear light
Furniture light
Ceiling, wall light



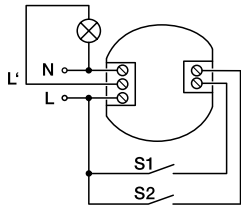
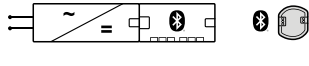
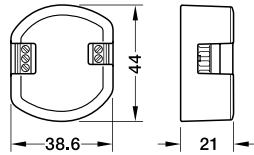
Controlling
Wireless 
Actors 



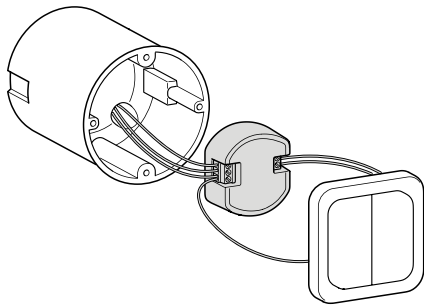
Supplying
Drivers



Connect Mesh 2-channel interface



Installation example



Installation in a deep switch box

- ▷ Allows use of push buttons, wall mounted, with same design as the house installation
- ▷ Controls furniture and room lighting as well as house installation consumers with Connect Mesh
- ▷ 2-channel interface transmits switching pulses of two inputs into the network with the on/off/dimming functions, and can receive on/off signals (no dimming) for switching the room light or other house installations such as a sun blind via the 80–240 V output. Inductive and capacitive loads are not possible!

Area of application:	For controlling components at Connect Mesh distributors and all luminaires with integrated Mesh chip (OneCable, R One Connect, Q Four Connect, Modul Q Connect, Cubic Connect, Zen Connect)
Version:	With potential free relay
Switching function:	On/Off dimming
Material:	Plastic
Dim. (L x W x H):	39 x 44 x 21 mm
Connection:	2 switching inputs for conventional standard wall-mounted push buttons (double rocker), 1 output port for on/off switching of 80-240 V, max. 3 A, (max. 240 W with 80 V and 720 W with 240 V), (controllable from any active component of the network) Inductive and capacitive loads are not possible!
Power consumption:	2 W
Signal transmission:	Bluetooth®
Ambient temperature:	-20–45 °C
Supplied with:	1 2-channel interface

2-channel interface

Installation reference

Suitable for installation in switch boxes (recommended box depth 60 mm)

Note

Only trained electricians with appropriate qualifications are permitted to install, start up and maintain the product.

Delivery Time : 90-120 Days

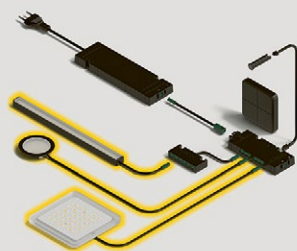
Order reference

Wall-mounted push button (e.g. Gira 015500) and cavity wall box provided by customer.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

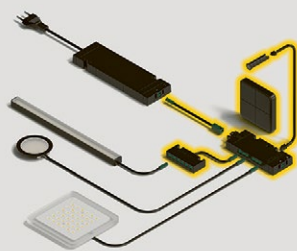
Linear light
Furniture light
Ceiling, wall light



Controlling

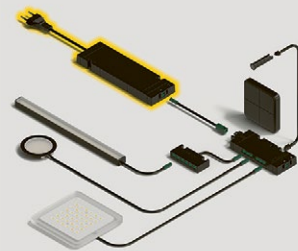
Wireless

Actors



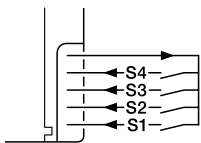
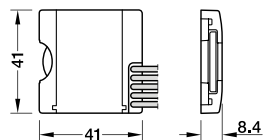
Supplying

Drivers

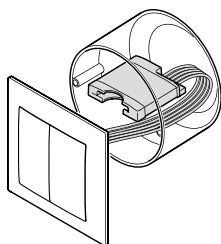


Connect Mesh 4-channel interface

Battery-operated



Installation example



Installation in switch box

- Allows use of wall-mounted push buttons in the house installation design
- Controls furniture and room lighting with Häfele Connect Mesh
- No load flows through the switch that is provided on site. Every push of a button is converted into radio signals by the interface.

Area of application:	For controlling components at Connect Mesh distributors and all luminaires with integrated Mesh chip (OneCable, R One Connect, Q Four Connect, Modul Q Connect, Cubic Connect, Zen Connect)
Switching function:	On/Off dimming
Material:	Plastic
Dim. (L x W x H):	48 x 7 x 39 mm
Type of battery:	Lithium
Battery size IEC standard:	CR2430
Battery integration:	Exchangeable
Battery service life:	1,800 duty cycles
Connection:	4 switching inputs for conventional 4-way wall mounted push buttons (double rocker with 4 active touchpads) or use of single rocker with 2 active touchpads
Signal transmission:	Bluetooth®
Ambient temperature:	10–45 °C
Supplied with:	1 4-channel interface

4-channel interface without battery

Installation reference

Suitable for installation in switch boxes

Order reference

The 4-channel interface requires 1 CR2430 button cell lithium battery (002.99.034), please order separately.

Wall-mounted push button (e.g. Gira 014700) and cavity wall box required on site.

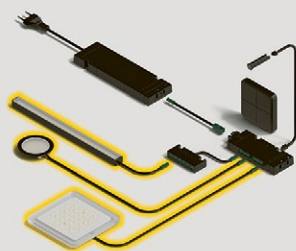
Note

Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

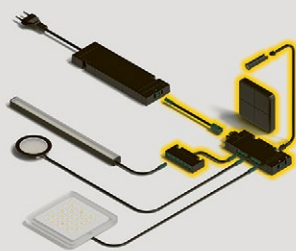
Linear light
Furniture light
Ceiling, wall light



Controlling

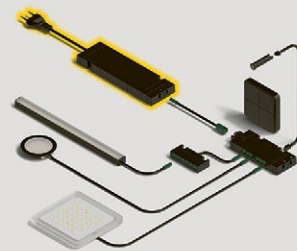
Wireless

Actors

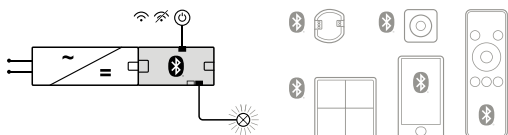


Supplying

Drivers



2-way distributor Connect Mesh Box-to-Box



- > With Bluetooth® and switching function
- > Switchable from Bluetooth® to manual wired switch input (for switches and sensors, not programmable).
- > Light colour adjustable at the touch of a button in manual mode
- > EasyPairing

Functionality

2 Output ports connected together (1 channel).

Material:	Plastic
Colour/finish:	Black
Wattage capacity:	120 W
Input ports:	1 x Plug, 2-pin 24 V box-to-box
Outputs:	1 x Socket, 2-pin 24 V box-to-box
Connected output ports:	2 x Sockets, 2-pin 24 V
Control inputs:	1 x Socket, switch
Dim. (L x W x H):	115 x 50 x 16 mm
Memory function:	Last condition after power switched off or user-defined via app
Max. distance within the network:	5 m
Supplied with:	1 Distributor

Monochrome



Cat. No.
850.00.845

Note
Delivery Time : 90-120 Days

**Tunable white
(2-wire technology)**



850.00.847

Note
Delivery Time : 90-120 Days

RGB



850.00.848

Note
The distance within the network applies in the event of a clear view.
Obstacles and electromagnetic interference sources can reduce the range.
Every other Connect Mesh component in the network acts as a signal amplifier and
compensates for the loss of range.

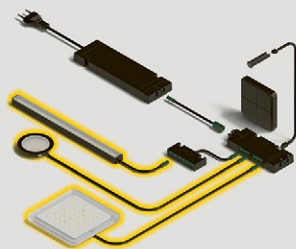
Please note max. lead length of 4 m from driver to distributor.

Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

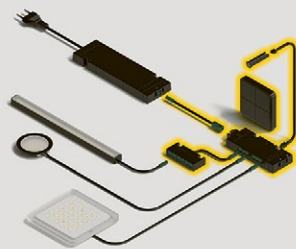
Lighting

- Linear light
- Furniture light
- Ceiling, wall light



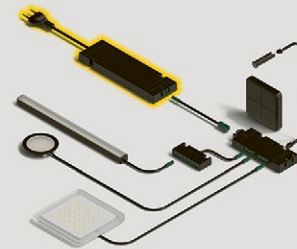
Controlling

- Wireless** ②
- Sensors ②

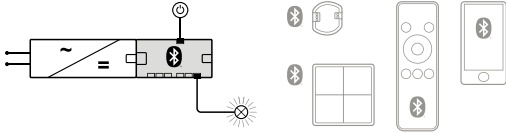
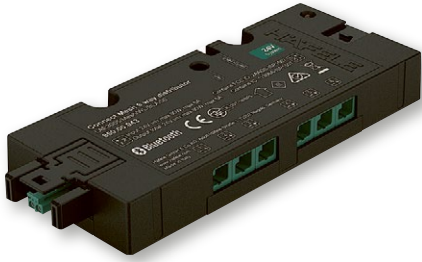


Supplying

- Drivers



6-way distributor Connect Mesh Box-to-Box



- > With Bluetooth® and switching function
- > Control several light colors on one box!
- > Each output port can be controlled individually.
- > Programming of switching input functions for standard switch via the app.
- > EasyPairing

Area of application:	For switching on/off and dimming (0–100%) of lights. With an adapter, TV lifts, wardrobe lifts, and furniture locks can be controlled.
Usable for:	For monochrome lights For tunable white lights For RGB lights For TV and wardrobe lifts For furniture locks
Switching function:	Programmable via app and EasyPairing
Memory function:	Last condition after currentless or user-defined via app
Material:	Plastic
Colour/finish:	Black
Power consumption:	120 W
Input ports:	1 x plug, 2-pin, 24 V box-to-box
Outputs:	1 x socket, 2-pin, 24 V box to box
Switched outputs:	6 x socket, 2-pin 24 V
Control inputs:	1 x socket, switch
Dim. (L x W x H):	120 x 50 x 16 mm
Max. distance within the network:	5 m
Max. standby power consumption:	0.5 W
Signal transmission:	Bluetooth®
Ambient temperature:	-20–45 °C
Supplied with:	1 Distributor including fixing material (adhesive tape and screws)

**Monochrome,
tunable white
(3-wire technology)
and RGB**



Cat. No.
850.00.043

Note

The distance within the network applies in the event of a clear view. Obstacles and electromagnetic interference sources can reduce the range. Every other Connect Mesh component in the network acts as a signal amplifier and compensates for the loss of range.

Please note max. lead length of 4 m from driver to distributor.

Delivery Time : 90-120 Days

Order reference

Adapters are required for tunable white lights, RGB lights or electrically operated fittings. Please order separately.

**Tunable white
(2-wire technology)**



850.00.045

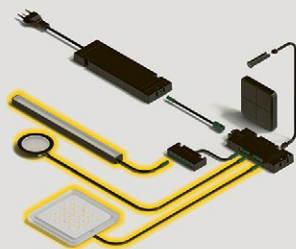
Note

Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

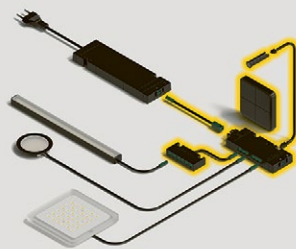
Linear light
Furniture light
Ceiling, wall light



Controlling

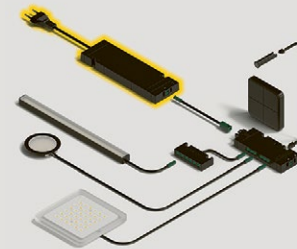
Wireless

Sensors

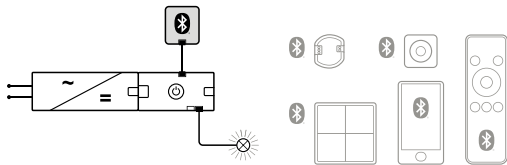


Supplying

Drivers



Connect Mesh radio receiver



- > Extend every wired system with Bluetooth® at the switching input
- > Also suitable for multi switch boxes

Area of application:	For extending systems with wired switching inputs to the reception of radio signals
Material:	Plastic
Colour/finish:	Black
Dim. (L x W x H):	50 x 45 x 13 mm
Switching function:	On/Off dimming
Max. distance within the network:	5 m
Signal transmission:	Bluetooth®
Ambient temperature:	-20–45 °C
Supplied with:	1 Radio receiver

Radio receiver

Note

The distance within the network applies in the event of a clear view. Obstacles and electromagnetic interference sources can reduce the range. Every other Connect Mesh component in the network acts as a signal amplifier and compensates for the loss of range.

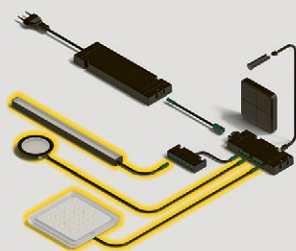
Order reference

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



Lighting system. Additional components in the Häfele Lighting catalogue.

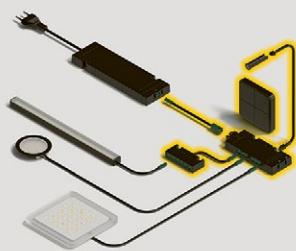
Lighting

Linear light
Furniture light
Ceiling, wall light



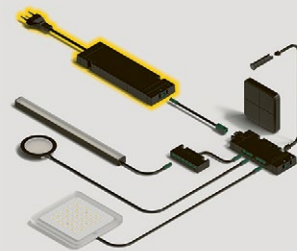
Controlling

Wireless 
Sensors 



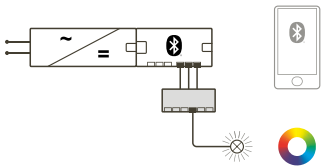
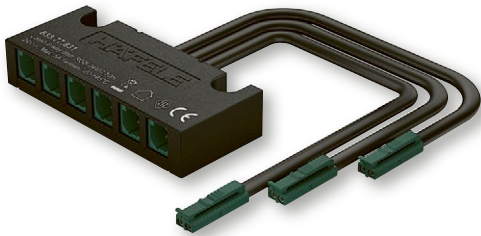
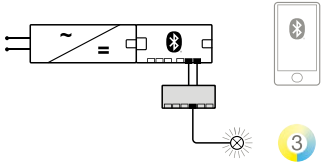
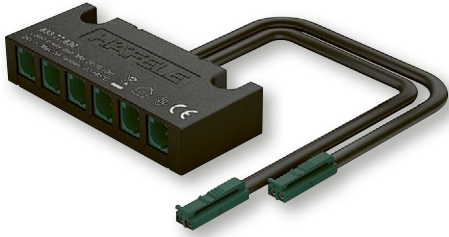
Supplying

Drivers



6-way adapter

For Connect Mesh 6-way distributor



Area of application:	For connecting tunable white lights to the Häfele Connect Mesh 6-way distributor
Material:	Plastic
Colour:	Black
Dim. (L x W x H):	70 x 30 x 14 mm
Cable length:	80 mm
Supplied with:	1 Distributor with lead

Area of application:	For connecting RGB lights to the Häfele Connect Mesh 6-way distributor
Material:	Plastic
Colour:	Black
Dim. (L x W x H):	70 x 30 x 14 mm
Cable length:	80 mm
Supplied with:	1 Distributor with lead

**Tunable white
(3-wire technology)**



Wattage capacity
W

120.0

Cat. No.
833.77.831

Note

1 Tunable white adapter occupies **2 adjacent** outputs on the 6-way distributor.
Delivery Time : 90-120 Days

RGB



120.0

833.77.831

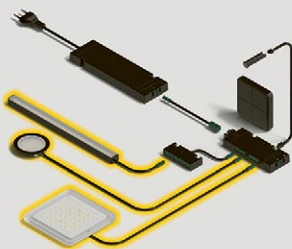
Note

1 RGB adapter occupies **3 adjacent** outputs at the 6-way distributor.
Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

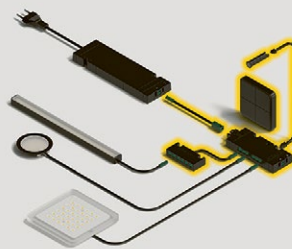
Linear light
Furniture light
Ceiling, wall light



Controlling

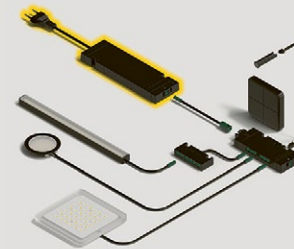
Wireless

Sensors
Actors



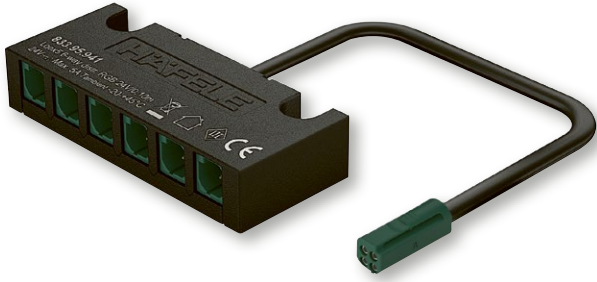
Supplying

Drivers

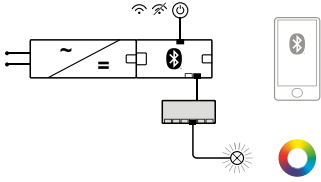


6-way adapter

For Connect Mesh 2-way distributor



Area of application:	For connecting RGB lights to the Häfele Connect Mesh 2-way distributor
Material:	Plastic
Colour:	Black
Dim. (L x W x H):	70 x 30 x 14 mm
Cable length:	80 mm
Supplied with:	1 Distributor with lead



RGB



Wattage capacity
W
120.0

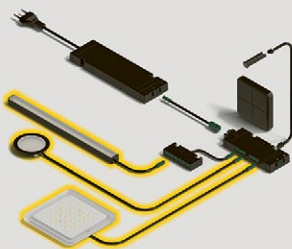
Cat. No.
833.95.941

Note
Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

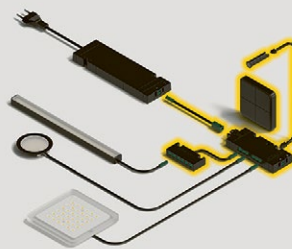
Lighting

Linear light
Furniture light
Ceiling, wall light



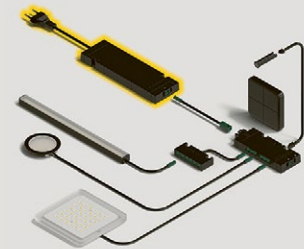
Controlling

Wireless
Sensors
Actors

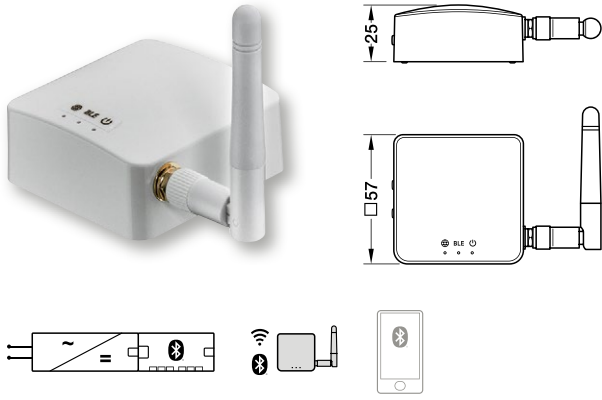


Supplying

Drivers



Gateway Connect Mesh



- > For integrating Häfele Connect Mesh into Smart Home Systems
- > For setting up Amazon Alexa automation with just a few clicks via the Häfele Connect Mesh App.
A web API is available for professional users, Smart Home and building integrators.
- > MQTT interface available

Area of application:	For controlling Connect Mesh components in a Smart Home System.
Version:	With external antenna
Material:	Plastic
Dim. (L x W x H):	39 x 44 x 21 mm
Connection:	Power supply: Micro USB, LAN: RJ45
Power consumption:	1.5 W
Supplied with:	1 Gateway for smart home systems 1 Charging cable from USB-A to micro USB

Order reference

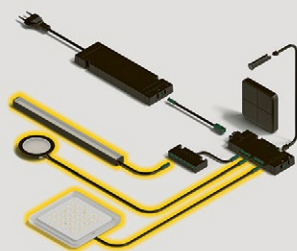
USB power supply (5 V, min. 1 A) required on site.

Smart home system and LAN connection (recommended) or WLAN required on site.

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

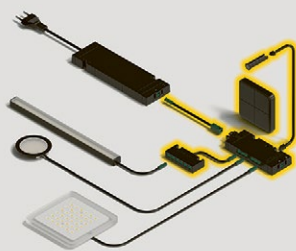
Linear light
Furniture light
Ceiling, wall light



Controlling

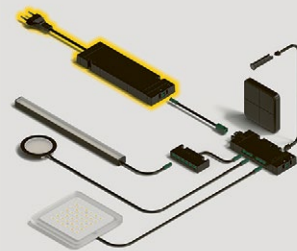
Wireless

Sensors
Actors



Supplying

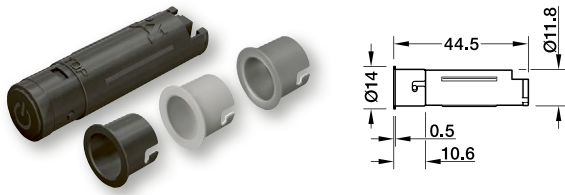
Drivers



Sensor switch

Adjustable dimmer switch, modular

Soft on/off switching function, dimming

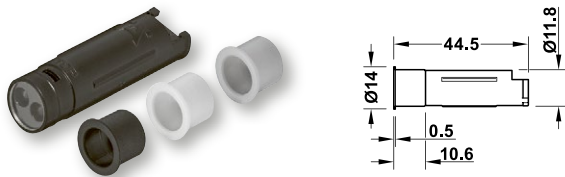


- > By touch
- > Memory function can be switched off using integrated micro switch
- > Colour adjustment using supplied cover sleeves (touch field always black)

Version:	Memory function that can be switched off, ideal for use with a multi-switch box.
Memory function:	Previous status after current switched off
Material:	Plastic
Dim. (Ø x L):	11.8 x 44.5 mm
Power consumption:	0.1 W
Degree of protection:	IP20
Drill hole Ø:	12 mm
Mounting:	For mounting in drilled hole or for plug fitting into housing
Supplied with:	1 Dimmer switch (delivery condition: Memory function switched on) 3 Cover sleeves (white, grey, black)

Adjustable sensor switch, modular

Soft on/off switching function and dimming, contactless or door open = light on, door closed = light off



- > Contactless
- > Function as dimmer sensor switch or door sensor switch, reversible via integrated micro switch
- > Colour adjustment with supplied cover sleeves

Version:	Adjustable as dimmer sensor switch (5–100%) or as door sensor switch (last dimming value is saved)
Memory function:	Previous status after current switched off
Material:	Plastic
Dim. (Ø x L):	11.8 x 44.5 mm
Power consumption:	0.3 W
Sensor range:	0–75 mm
Degree of protection:	IP20
Drill hole Ø:	12 mm
Mounting:	For mounting in drilled hole or for plug fitting into housing
Supplied with:	1 Adjustable sensor switch (Delivery status: door sensor switch) 3 Cover sleeves (white, grey, black)



Colour/finish

White/Grey/Black

Cat. No.
833.89.032

Installation reference

Coloured cover sleeve, usable for drilled hole in furniture and for housing

Order reference

Please order modular lead 500 mm (833.89.140), 1000 mm (833.89.141) or 2000 mm (833.89.142) separately.

White/Grey/Black

833.89.334

Note

The sensor range applies to white surfaces.
With black surfaces, the range of the infrared sensor is halved, matt black surfaces can reduce the value even further. Trial installations are recommended.
A white reflective surface can be glued to the inside of inside of doors.

Installation reference

Coloured cover sleeve, usable for drilled hole in furniture and for housing

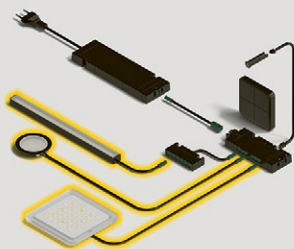
Order reference

Please order modular lead 500 mm (833.89.140), 1000 mm (833.89.141) or 2000 mm (833.89.142) separately.

Lighting system. Additional components in the Häfele Lighting catalogue.

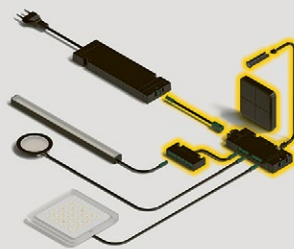
Lighting

Linear light
Furniture light
Ceiling, wall light



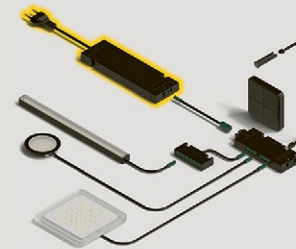
Controlling

Wired
Actors



Supplying

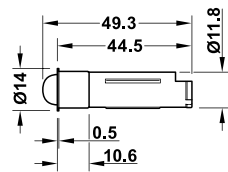
Drivers



Sensor switch

Modular adjustable motion detector

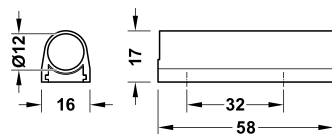
Gentle on/off switching function, automatic



- > Adjustable delay time via integrated microswitch
- > Colour adjustment with supplied cover sleeves

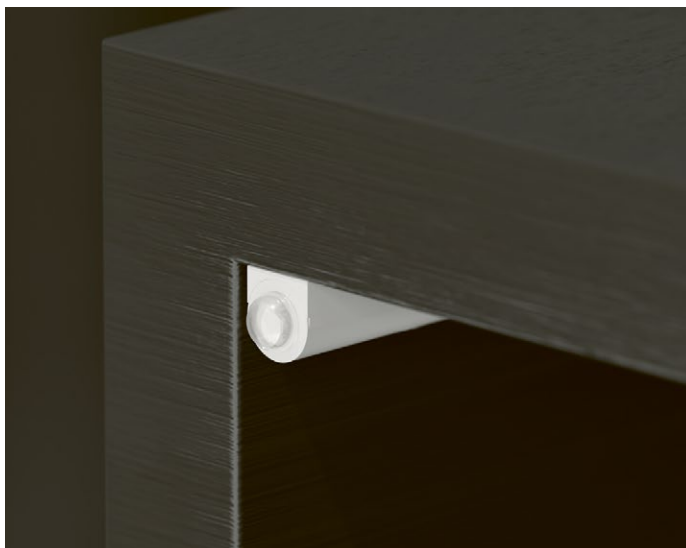
Version:	Adjustable delay time (30 s, 60 s, 180 s)
Memory function:	No
Material:	Plastic
Dim. (Ø x L):	11.8 x 44.5 mm
Power consumption:	0.1 W
Sensor range:	0–3000 mm
Horizontal sensor angle:	90°
Vertical sensor bracket:	120°
Degree of protection:	IP20
Drill hole Ø:	12 mm
Mounting:	For mounting in drilled hole or for plug fitting into housing
Supplied with:	1 Adjustable motion detector (Delivery status: delay time 30 s) 3 Cover sleeves (white, grey, black)

Housing for switch



- > Suitable for 32 mm intervals

Material:	Plastic
Usable for:	Switch Ø 12 mm, also for adjustable sensors with cover sleeve
Dimensions (L x W x H) mm	58 x 16 x 17.1
Dim. (Ø x H) mm	12 x 17.1
Installation:	For screw fixing, for glue fixing
Supplied with:	1 Housing with mounting plate



Colour/finish

Cat. No.
833.89.333

Installation reference

Coloured cover sleeve, usable for drill hole in furniture and for housings.
Sensor lens protrudes approx. 5 mm.

Order reference

Please order modular lead 500 mm (833.89.140), 1000 mm (833.89.141) or 2000 mm (833.89.142) separately.

Grey	833.89.331
Black	833.89.332
White	833.89.330

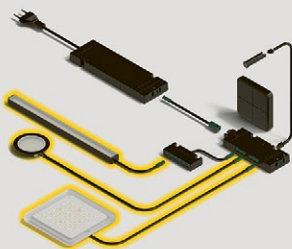
Installation reference

1. Screw fastening plate into place
2. Slide on housing

Lighting system. Additional components in the Häfele Lighting catalogue.

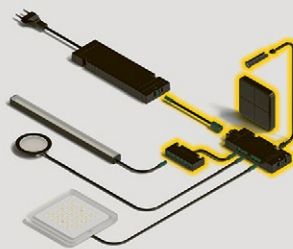
Lighting

Linear light
Furniture light
Ceiling, wall light



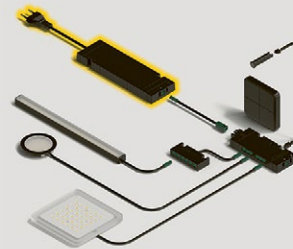
Controlling

Wired
Actors



Supplying

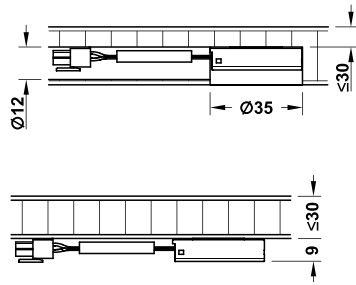
Drivers



Sensor switch

Dimmer switch (capacitive) modular

Switching function on/off using proximity sensor, dimming



Area of application:	Concealed installation in wood, glass or stone
Usable for:	Lead with snap-in connector
Memory function:	Previous status after current switched off
Material:	Plastic
Power consumption:	1 W
Degree of protection:	IP20
Plug drill hole Ø:	12 mm
Drill hole Ø:	35 mm
Maximum installation depth:	30 mm
Mounting:	For recess mounting, for screw fixing

Colour/finish

Silver coloured

Cat. No.

833.89.133

Installation reference

Suitable materials: Wood, stone, glass.

Do not use in metalliferous materials.

Minimum distance of 500 mm from electromagnetic fields

(power lines, microwave ovens, etc.) must be adhered to.

The maximum installation depth for stone and glass is 10 mm.

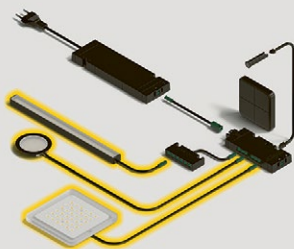
Order reference

Please order modular lead 500 mm (833.89.140), 1000 mm (833.89.141) or 2000 mm (833.89.142) separately.

Lighting system. Additional components in the Häfele Lighting catalogue.

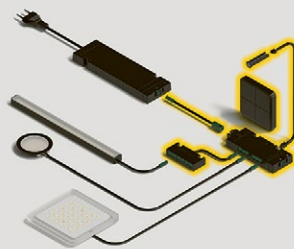
Lighting

Linear light
Furniture light
Ceiling, wall light



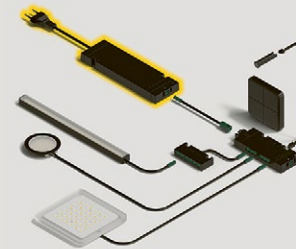
Controlling

Wired
Actors

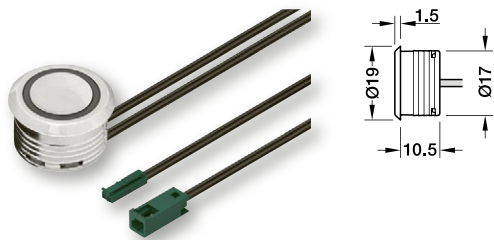


Supplying

Drivers



Inline dimmer switch



> With orientation light for finding the switch in the dark

Switching function: Gentle on/off, dimming

Memory function: Yes

Material: Plastic

Colour/finish: Chrome plated

Dim. (Ø x L): 19 x 12 mm

Max. standby power consumption: 0.1 W

Degree of protection: IP20

Drill hole Ø: 17 mm

Installation: For mounting in drilled hole

Supplied with: 1 Switch with plug/socket, each with 2 m cable



Wattage capacity
W

60.0

Cat. No.
833.89.039

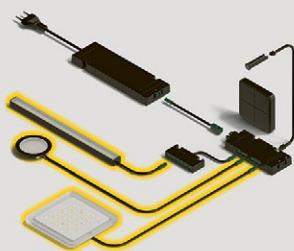
Note

Current carrying capacity!
Orientation light switches off when the connected light is switched on.
Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

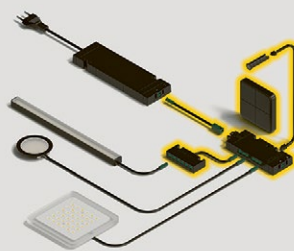
Lighting

Linear light
Furniture light
Ceiling, wall light



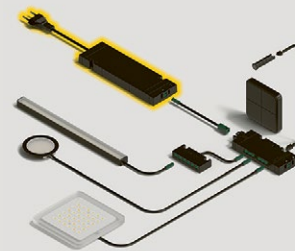
Controlling

Wired
Actors

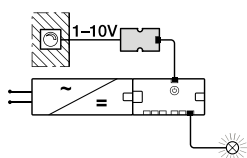


Supplying

Drivers

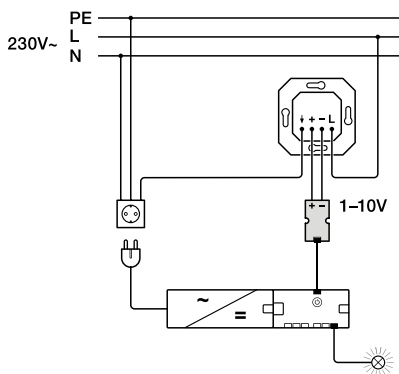


Dimmer interface, modular



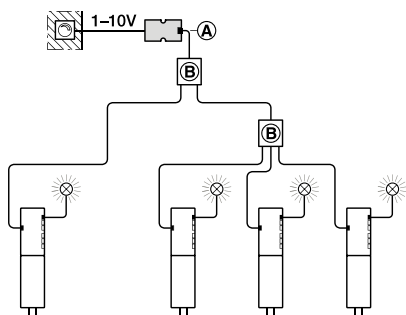
Customer-provided dimmer with 1–10 V output without connection to mains voltage.
Function: for dimming the LED lights.

Connection diagram without mains voltage



Customer-provided dimmer for connecting to mains voltage.
Function: switching the socket for the power supply unit on/off and dimming the LED lights.

Connection diagram with mains voltage



Dimmer interface and coupling of multi driver boxes:

- Ⓐ dimmer interface
- Ⓑ Multi driver box

Not compatible with multi switch box

Connection diagram for distributor with switching function

- > Wall dimmers can be used for the control of furniture lights in the design of the house installation
- > For dimmer with 1–10 V control output

Area of application:	For dimming lights on a 12 V or 24 V driver with a wall dimmer with an on/off function and a 1–10 V control output
Version:	For lead with snap-in connector
Material:	Plastic
Colour/finish:	Black
Dim. (L x W x H):	69 x 35 x 13.5 mm
Input signal:	1–10 V
Installation reference:	Customer-provided dimmer (e.g. Gira 030900) and cavity wall box required.
Degree of protection:	IP20

Control inputs	Control outputs	Cat. No.
1 x, direct connection for screw fixing	1 x socket, modular switch with interval	833.89.144

Note

Use dimmer only, if monochrome lights are connected.
 Direct connection to a normal household dimmer with a 1 – 10 V control output and connection via lead with snap-in connector for modular switches to a switch input of a power supply or a distributor.
 Delivery Time : 90-120 Days

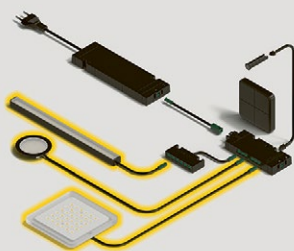
Order reference

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

Lighting system. Additional components in the Häfele Lighting catalogue.

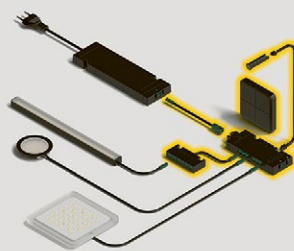
Lighting

Linear light
 Furniture light
 Ceiling, wall light



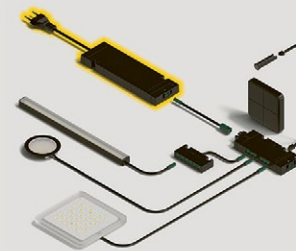
Controlling

Wired
 Actors



Supplying

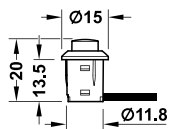
Drivers



Push switch/Rocker switch/Foot switch



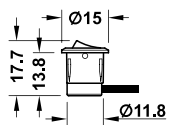
Push switch



Switching function:	On/Off
Material:	Plastic
Dim. (Ø x L):	14 x 20 mm
Cable length:	2000 mm
Degree of protection:	IP20
Plug drill hole Ø:	12 mm
Drill hole Ø:	12 mm
Supplied with:	1 Switch with 2 m lead



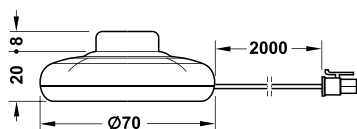
Rocker switch



Switching function:	On/Off
Material:	Plastic
Dim. (Ø x L):	15 x 17.7 mm
Cable length:	2000 mm
Degree of protection:	IP20
Plug drill hole Ø:	12 mm
Drill hole Ø:	12 mm
Supplied with:	1 Switch with 2 m lead



Foot switch



Switching function:	On/Off
Material:	Plastic
Dimensions (Ø x H):	70 x 28 mm
Cable length:	2000 mm
Degree of protection:	IP20
Plug drill hole Ø:	12 mm
Supplied with:	1 Switch with 2 m lead

Push switch

Colour/finish

Cat. No.

Black
Grey

833.89.108
833.89.107

Rocker switch

Black

833.89.106

Foot switch

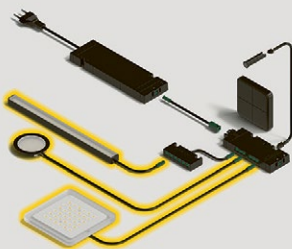
Black

833.89.046

Lighting system. Additional components in the Häfele Lighting catalogue.

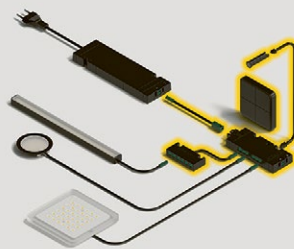
Lighting

Linear light
Furniture light
Ceiling, wall light



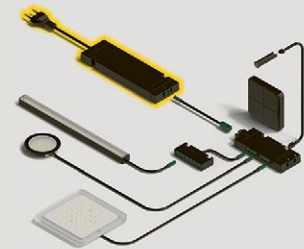
Controlling

Wired
Actors



Supplying

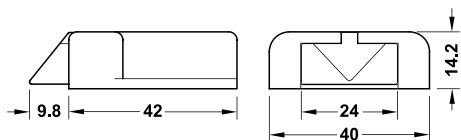
Drivers



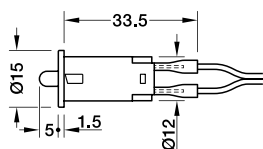
Door contact switch



Universal door contact switch, modular



Door contact switch



Area of application:	For single-leaf sliding door or hinged door
Usable for:	1-leaf sliding door or hinged door
Switching function:	On/Off
Material:	Plastic
Dim. (L x W x H):	51.8 x 40 x 14.2 mm
Degree of protection:	IP20
Installation:	For screw fixing
Supplied with:	1 Switch

Area of application:	For switching by opening or closing the door, also suitable for front panels without handles with opening aid
Switching function:	Door open = light on, Door closed = light off
Material:	Plastic
Dim. (Ø x L):	15 x 28 mm
Cable length:	2000 mm
Degree of protection:	IP20
Plug drill hole Ø:	12 mm
Drill hole Ø:	12 mm
Supplied with:	1 Switch with 2 m lead

Universal door contact switch

Colour/finish

Black

Cat. No.

833.89.143

Order reference

Please order the lead (833.89.142) separately.

Door contact switch

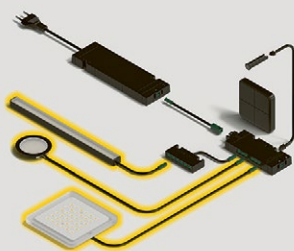
Black

833.89.059

Lighting system. Additional components in the Häfele Lighting catalogue.

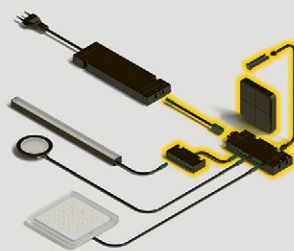
Lighting

Linear light
Furniture light
Ceiling, wall light



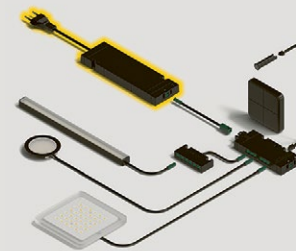
Controlling

Wired
Actors



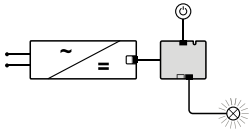
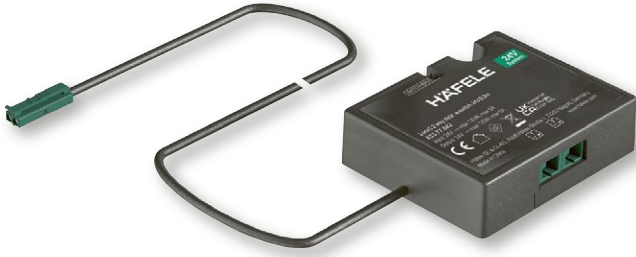
Supplying

Drivers



2-way distributor with switching function

With switching function for 1 switch



1 Switch controls all output ports

- > With switching function for 2 output ports
- > Any number of distributors can be connected to the driver.
- > Note the maximum output power of the driver!

Material:	Plastic
Colour/finish:	Black
Dim. (L x W x H):	60 x 50 x 16 mm
Input ports:	1 x Plug, 2 pin 24 V
Connected output ports:	2 x Sockets, 2 pin 24 V
Control inputs:	1 x Socket, switch
Cable length:	200 mm
Supplied with:	1 Distributor with lead

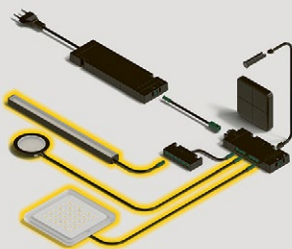
Wattage capacity
W

120.0

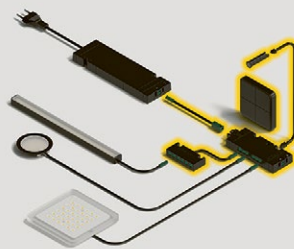
Cat. No.
833.77.842

Lighting system. Additional components in the Häfele Lighting catalogue.

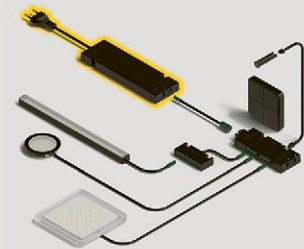
Lighting
Linear light
Furniture light
Ceiling, wall light



Controlling
Wired
Sensors

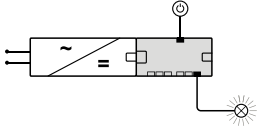
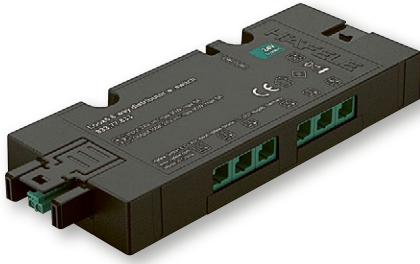


Supplying
Drivers



6-way distributor

Box to box



1 switch controls all output ports

- > With switching function for 6 output ports
- > The connection of the distributors with the driver can be done via a box to box plug-in connection or via an extension lead. Any number of distributors can be connected to the driver.
- > Note the maximum output power of the driver!

Version:	With switching function for 1 switch
Memory function:	Depending on sensor switch
Material:	Plastic
Colour:	Black
Dim. (L x W x H):	120 x 50 x 16 mm
Mounting:	For screw fixing For glue fixing
Supplied with:	1 Distributor including fixing material (adhesive tape and screws)

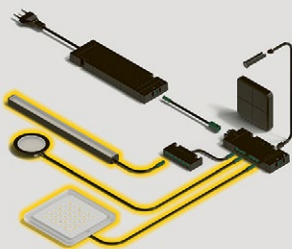
With switching function
for 1 switch

Wattage capacity
W
120.0

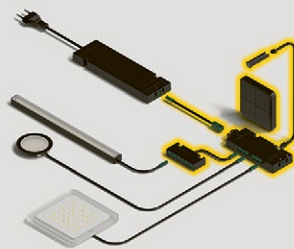
Cat. No.
833.77.833

Lighting system. Additional components in the Häfele Lighting catalogue.

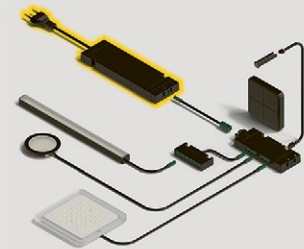
Lighting
Linear light
Furniture light
Ceiling, wall light



Controlling
Wired
Sensors



Supplying
Drivers



Wattage capacity
W

120.0

Cat. No.

833.95.829

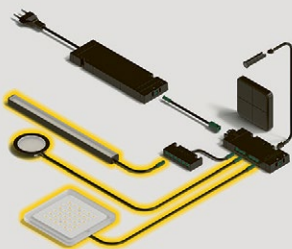
Note

Delivery Time : 90-120 Days

Lighting system. Additional components in the Häfele Lighting catalogue.

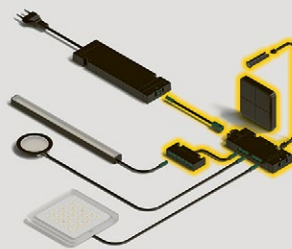
Lighting

Linear light
Furniture light
Ceiling, wall light



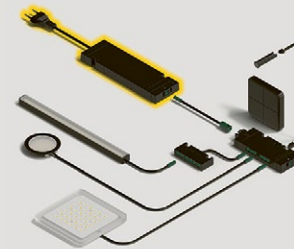
Controlling

Wired
Sensors

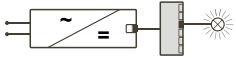
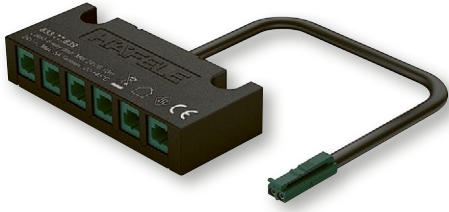


Supplying

Drivers



6-way adapter



Can also be connected to 6-way distributor

> Unswitched outputs with continuous current

Material:	Plastic
Colour/finish:	Black
Dim. (L x W x H):	70 x 30 x 14 mm
Cable length:	80 mm
Supplied with:	1 Distributor with lead

Wattage capacity
W

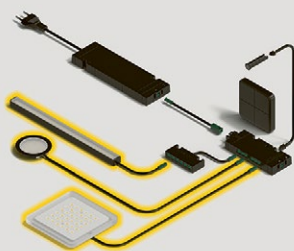
120.0

Cat. No.

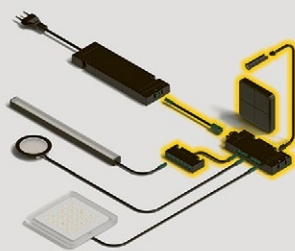
833.77.839

Lighting system. Additional components in the Häfele Lighting catalogue.

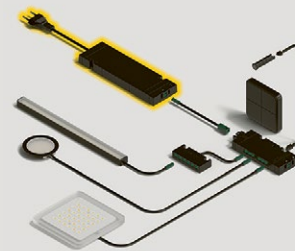
Lighting
Linear light
Furniture light
Ceiling, wall light



Controlling
Wired
Sensors
Actors



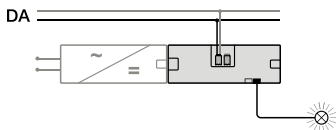
Supplying
Drivers



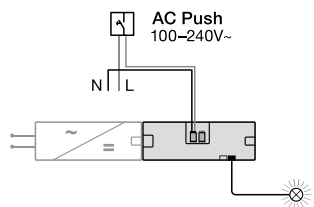
2-way distributor DALI/Push/1-10 V Box-to-Box



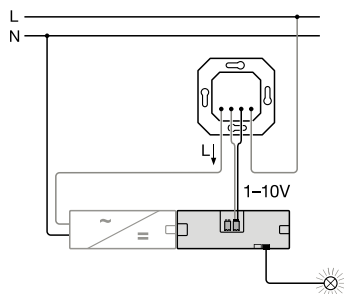
Control inputs
(direct connection for clamping)



DALI-2™ connection diagram



Connection diagram
for mains voltage push button



1-10 V dimmer connection diagram

- > One distributor for 3 control options: DALI-2™, mains voltage push button or 1-10 V dimmer
- > DALI DT6 (monochrome) certified

Area of application:	For dimming lights via DALI-2™, mains voltage push button or 1-10 V dimmer.
Colour/finish:	Black
Dim. (L x W x H):	149 x 50 x 16 mm
Switching function:	On/Off and dimming
Current carrying capacity:	5 A
Life time:	50,000 hrs
Mounting:	For glue fixing, for screw fixing
Installation reference:	Control inputs suitable for cable cross-sections of 0.75-1.5 mm ²
Supplied with:	1 Distributor with mounting material



Note

The memory function (storage of dimming value after currentless) depends on the selected control option.

Order reference

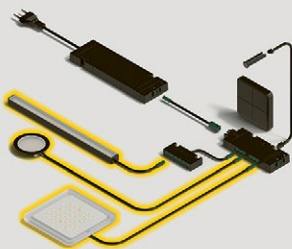
The control components must be provided by the customer.
Please order the 24 V driver separately.

A mains lead with open cable ends is available (833.89.009) for connecting the driver directly to the mains voltage.

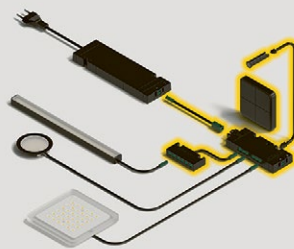
Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

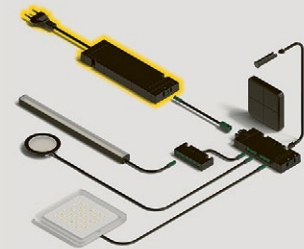
- Linear light
- Furniture light
- Ceiling, wall light



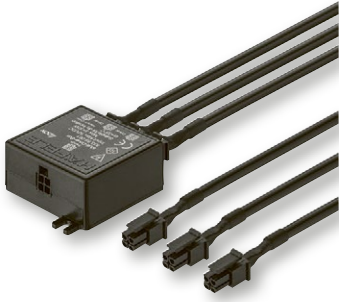
**Controlling
Wired**



**Supplying
Drivers**

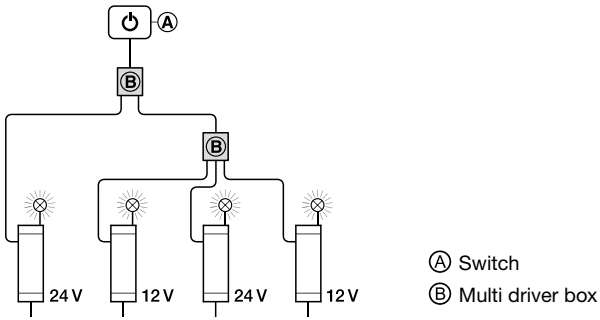


Multi driver box



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

Material:	Plastic
Colour/finish:	Black
Dim. (L x W x H):	50 x 40 x 19 mm
Standby power consumption:	1.5 W
Degree of protection:	IP20
Cable length:	1000 mm
Plug drill hole Ø:	12 mm
Supplied with:	1 Driver box with mounting material 3 Leads for switches, each 1 m



Cascade, consists of 2 multi driver boxes for max. 5 drivers/distributors

Note

Maximum lead length from driver to switch 6 m.
Up to 5 drivers can be switched using one switch by cascading 2 multi-driver boxes.
No current flows via the box, i.e. drivers can be switched independently of their maximum power.

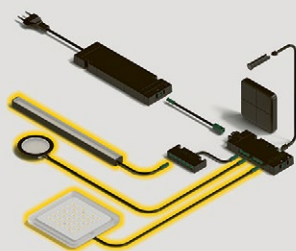
Order reference

Please order lead for switch with different lengths separately.

Lighting system. Additional components in the Häfele Lighting catalogue.

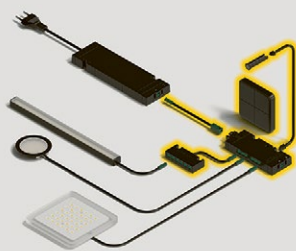
Lighting

Linear light
Furniture light
Ceiling, wall light



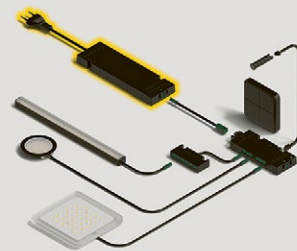
Controlling

Wired
Sensors
Actors

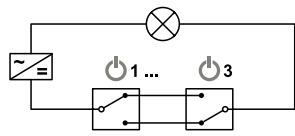
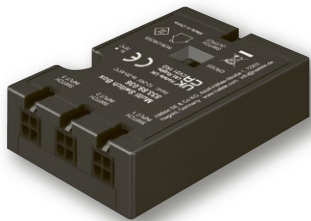


Supplying

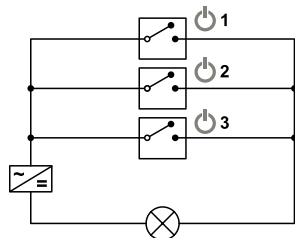
Drivers



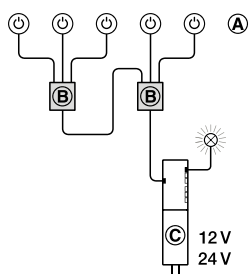
Multi switch box



Cross circuit



Deactivated cross circuit



Connection diagram for distributor with switching function

Combination of 2 multi switch boxes

- Ⓐ Switch
- Ⓑ Multi switch box
- Ⓒ Driver

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

Operation mode: With cross circuit,
Deactivated cross circuit

Material: Plastic

Colour/finish: Black

Dim. (L x W x H): 55 x 45 x 16 mm

Standby power consumption: 0.3 W

Degree of protection: IP20

Cable length: 2000 mm

Supplied with: 1 Multi switch box with
2 m lead for switch

Functionality

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.

To switching off, all switches that were switched on have to be actuated again.

Control inputs

Control outputs

Cat. No.

1 x socket, switch

3 x socket, switch

833.89.036

Note

2 multi-switch boxes can be combined and used with 5 switches.
Not to be used with dimmer 833.89.043.

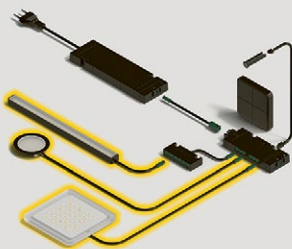
Order reference

Lead for switch available in other lengths.
Please order separately.

Lighting system. Additional components in the Häfele Lighting catalogue.

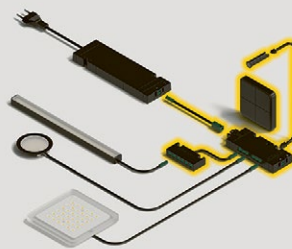
Lighting

Linear light
Furniture light
Ceiling, wall light



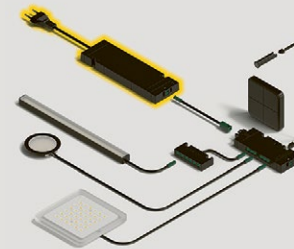
Controlling

Wired
Sensors
Actors



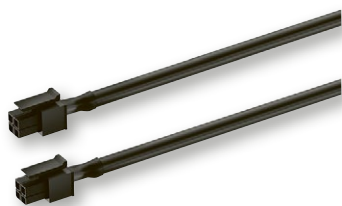
Supplying

Drivers



Lead/Extension lead

For multi driver box and multi switch box



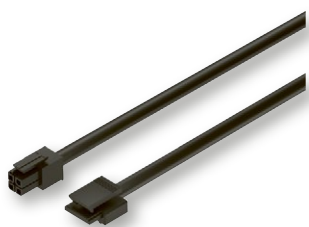
Area of application:	For multi driver box and multi switch box
Material:	Plastic
Plug drill hole Ø:	12 mm
Supplied with:	1 plug/plug lead

For switches and modular switches



Area of application:	For switches and modular switches
Plug drill hole Ø:	12 mm
Socket drill hole Ø:	12 mm
Supplied with:	1 Extension lead plug/socket

For modular switch



Area of application:	For modular switch
Version:	With snap-in connector
Material:	Plastic
Plug drill hole Ø:	12 mm
Supplied with:	1 Lead plug/modular plug

Lead

	500 mm	1000 mm	2000 mm
	833.89.068	-	833.89.069

Note

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

Extension lead

	-	-	833.89.067
--	---	---	------------

Note

Suitable for extending all switch leads (integrated leads, modular leads, leads for multi switch box).
Max. lead length from driver to switch: 6 m.

Lead

	833.89.140	833.89.141	833.89.142
--	------------	------------	------------

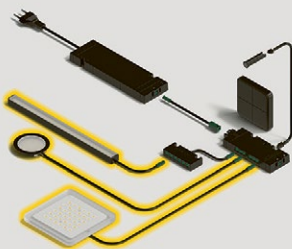
Note

The maximum lead length of a switch is 6 m

Lighting system. Additional components in the Häfele Lighting catalogue.

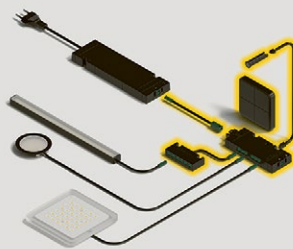
Lighting

Linear light
Furniture light
Ceiling, wall light



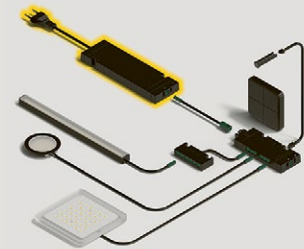
Controlling

Wired
Sensors
Actors



Supplying

Drivers



Supply.

HAFELE Lighting

The Catalogue.



The products.

Power supply units

298

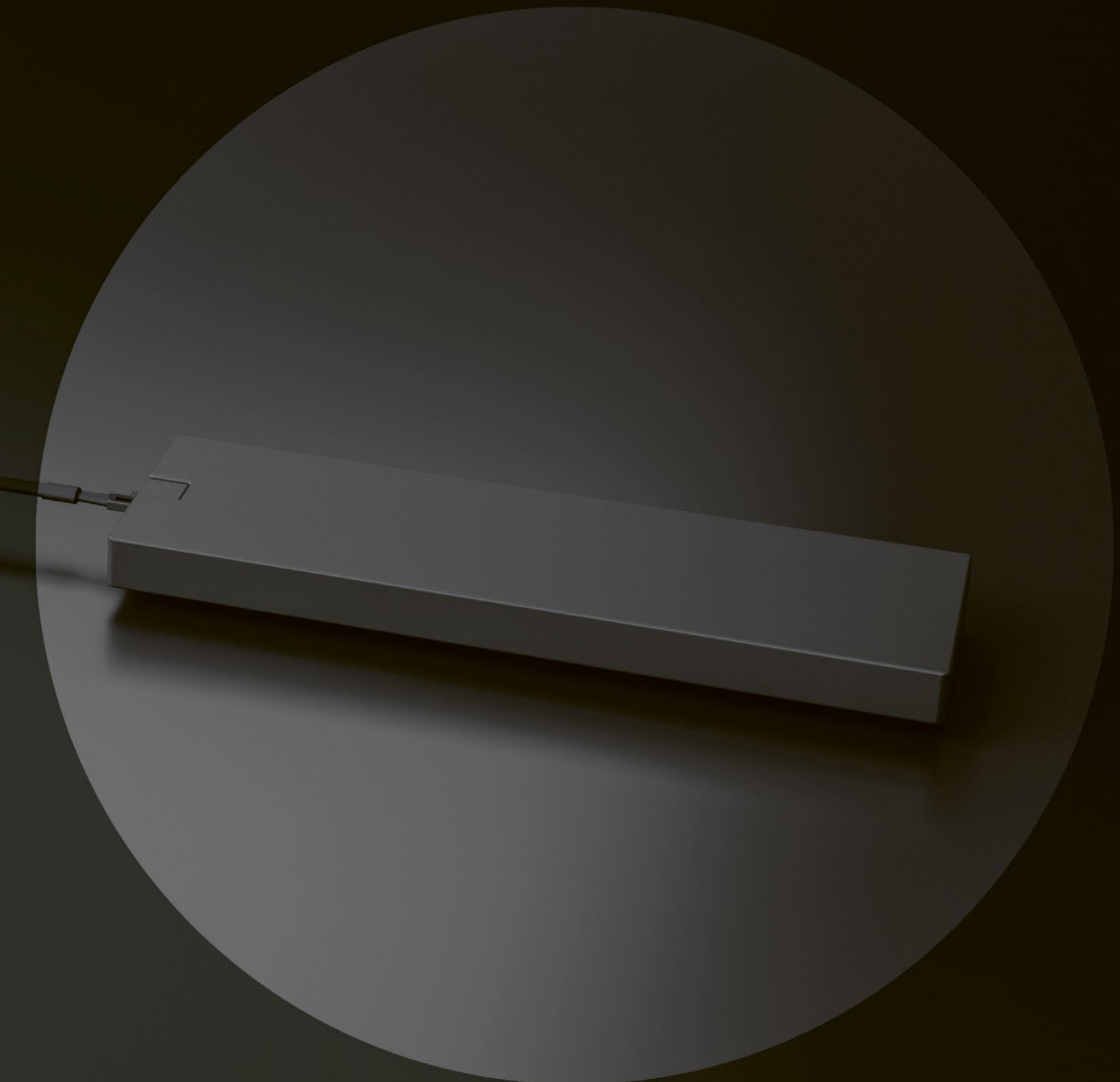
- Pro drivers
- Plus drivers
- Pure drivers
- Driver accessories

298

300

304

306



Supplying

Driver Plus



Drivers constant voltage 24 V
Page 300

Driver Pure



Drivers constant voltage 24 V
Page 304

Driver accessories



Converter 12/24V
Page 306

Driver constant voltage 24 V

Pro


240 W

- > Extra power
- > Life time >50,000 hours

Version:	With overload protection
Colour:	Black
Degree of protection:	IP20
Standby power consumption:	<0.5 W
Output voltage:	DC 24 V +/- 3%
Dim. (L x W x H):	234 x 75 x 38 mm
Supplied with:	1 Driver with mounting accessories

Output power W	Output current A		Mains voltage	Number of connections 24 V	Cat. No.
240 (2 x 120)	2x5	EU	200–240 V~, 50–60 Hz	2x socket	833.95.012

Please pay attention to the regional input voltage when choosing the driver!

Ambient temperature –25°C to +45 °C (270 W: 40 °C)
 Ensure that there is a sufficient air supply and circulation at the mounting location.
 The life time is doubled with an ambient temperature of <30° C.

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

Note




Please order mains lead separately.
 532.84.888 Cord thai plug 2M for monolith

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

- Linear light
- Furniture light
- Ceiling, wall light

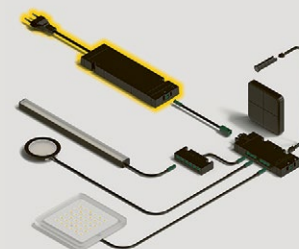
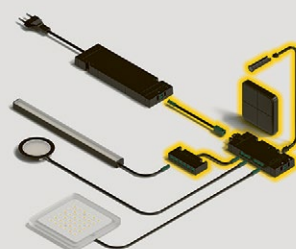
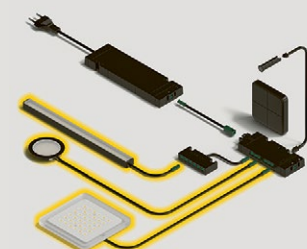
Controlling

- Wireless** 
- Sensors 
- Actors 

Wired

- Sensors
- Actors

Supplying

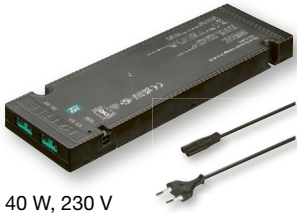


Driver constant voltage 24 V

Plus



20 W, 230 V



40 W, 230 V



60 W, 230 V



90 W, 230 V

- > With switching function
- > Extremely flat 16 mm
- > Life time 30,000 h

Version:	With overload protection
Area of application:	For Häfele Lighting LED lights (not for other devices)
Material:	Plastic
Colour/finish:	Black
Mains frequency:	50–60 Hz
Output voltage:	24 V DC $\pm 3\%$
Control inputs:	1 x Socket, switch
Installation:	For screw fixing, for glue fixing
Supplied with:	1 Driver including fixing materials

Output power W	Mains voltage V	Switched outputs	Output current A	Max. standby power consumption W	Ambient temperature °C	Dim. (L x W x H) mm	Cat. No.
20	220–240	4 x Sockets, 2-pin 24 V	0.83	0.20	-25–45	138 x 50 x 16	833.89.981
40		4 x Sockets, 2-pin 24 V	1.67	0.50		190 x 60 x 16	833.89.983
60		6 x Sockets, 2-pol. 24 V	2.50	0.50		222 x 70 x 16	833.77.956
90		6 x Sockets, 2-pin 24 V	3.75	0.50		292 x 70 x 16	833.89.985

Installation reference

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

Note

Please note the regional mains voltage when choosing the driver!

Please use drivers with a life time of >50,000 hrs for permanent operation.

Maximum lead length from the driver to the device: 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).

Note

Please note the regional mains voltage when choosing the driver!

Please use drivers with a life time of >50,000 hrs for permanent operation.

Maximum lead length from the driver to the device: 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).

Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

Linear light
Furniture light
Ceiling, wall light

Controlling

Wireless

Sensors

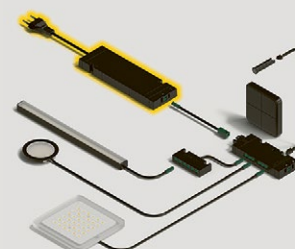
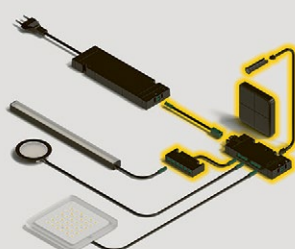
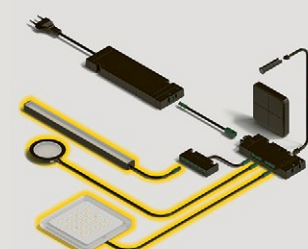
Actors

Wired

Sensors

Actors

Supplying



Driver constant voltage 24 V

Plus

With switching input



Drivers, 20 W



Drivers, 40 W



Drivers, 60 W



Drivers, 90 W



Drivers, 120 W

- > Life time >30,000 h
- > Universal voltage input
- > Internationally certified and usable
- > With switch input or as box to box version

Version:	With overload protection
Colour:	Black
Degree of protection:	IP20
Output voltage:	DC 24 V +/- 5 %
Connections:	4 or 6 x socket 24 V or 1 box to box socket
Supplied with:	1 Driver including fixing materials

Output power W	Output current A	Mains voltage V	Standby power consumption W	Dim. (L x W x H) mm	Cat. No.
With switching input					
20	0.83	100–240 V ~; 50–60 HZ	≤0.5	138 x 50 x 16	833.72.728
40	1, 67			192 x 60 x 16	833.72.737
60	2.5			221 x 70 x 16	833.72.739
90	3.75			260 x 70 x 16	833.72.747
120	5			260 x 70 x 16	833.72.749

Ambient temperature –20 °C to +45 °C

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

Please use drivers with a life time of >50,000 h for permanent operation.

Maximum lead length from the 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.

Note

Please order mains lead separately.

833.16.016 EU primary cable black 5,000 mm

833.16.007 EU primary cable black 2,000 mm

Lighting system. Supplementary components in the Häfele Lighting catalogue.

Lighting

- Linear light
- Furniture light
- Ceiling, wall light

Controlling

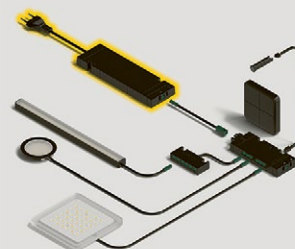
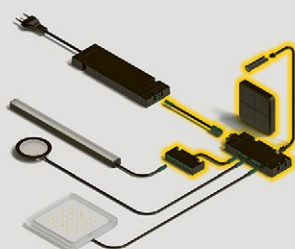
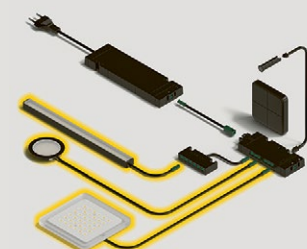
Wireless

- Sensors
- Actors

Wired

- Sensors
- Actors

Supplying



Driver constant voltage 24 V

Pure



12 W



30 W



60 W

- > Life time >15,000 h
- > 4 output sockets

Version:	With overload protection
Colour:	Black
Degree of protection:	IP20
Output voltage:	DC 24 V +/- 5%
Number of connections:	4 x sockets 24 V
Supplied with:	1 Driver

Output power W	Output current A	Mains voltage V	Standby power consumption W	Dim. (L x W x H) mm	Cat. No.
12	0.5	220–240 V ~; 50–60 HZ	≤0.5	105 x 56 x 16	833.72.701
30	1.25	220–240 V ~; 50–60 HZ	≤0.5	142 x 56 x 16	833.72.702
60	2.5	220–240 V ~; 50–60 HZ	≤0.5	187 x 56 x 16	833.72.703

Ambient temperature –20 °C to +45 °C

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

Note

Delivery Time :90-120 Days

Please order mains lead separately.

833.16.016 EU primary cable black 5,000 mm

833.16.007 EU primary cable black 2,000 mm

Lighting system. Supplementary components in the Häfele Lighting catalogue.

Lighting

- Linear light
- Furniture light
- Ceiling, wall light

Controlling

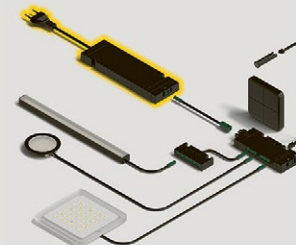
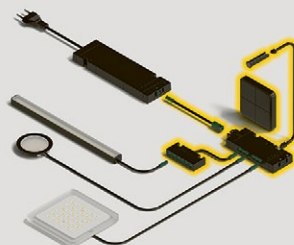
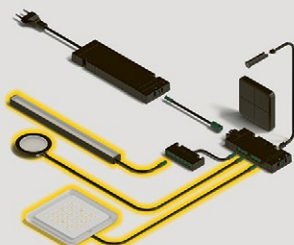
Wireless

- Sensors
- Actors

Wired

- Sensors
- Actors

Supplying



Converters 12/24 V

With switching function



12 V to 24 V converters



24 V to 12 V converters

- > Max. output power 50 W
- > 12 V to 24 V converter

Area of application:	Convert 12 V to 24 V
Version:	With switching function
Memory function:	Depending on the sensor switch
Material:	Plastic
Colour:	Black
Dim. (L x W x H):	120 x 50 x 16 mm
Installation:	For screw fixing, for glue fixing
Supplied with:	1 Converter incl. fixing material (adhesive tape and screws)

- > Max. output power 50 W
- > 24 V to 12 V converter

Area of application:	Convert 24 V to 12 V
Version:	With switching function
Memory function:	Depending on the sensor switch
Material:	Plastic
Colour:	Black
Dim. (L x W x H):	120 x 50 x 16 mm
Installation:	For screw fixing, for glue fixing
Supplied with:	1 Converter incl. fixing material (adhesive tape and screws)

Power consumption W	Output power W	Cat. No.
60	50	833.77.846

Note

Maximum possible connected rating of 50 W per converter.

60	–	833.77.847
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Note

Maximum possible connected rating of 50 W per converter.



Lighting system. Additional components in the Häfele Lighting catalogue.

Lighting

Linear light
Furniture light
Ceiling, wall light

Controlling

Wireless 

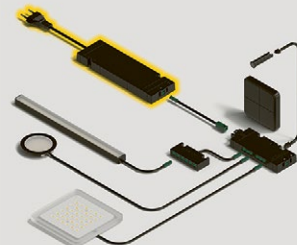
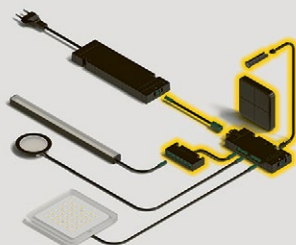
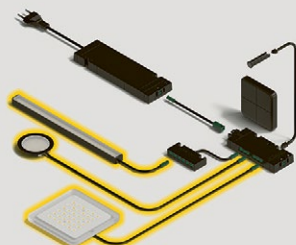
Sensors 
Actors 

Wired

Sensors
Actors

Supplying

Drivers



Accessories.

The products.

Cable **312**

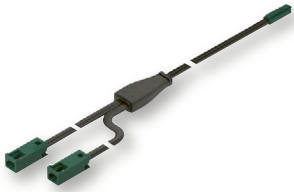
- Extensions **312**
- Y extensions **314**

Charging stations **315**

- Inductive charging station **316**
- USB charging station **318**

Accessories

Leads, charger



Extension leads
Page 312

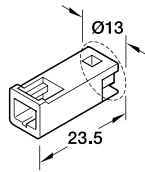
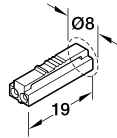
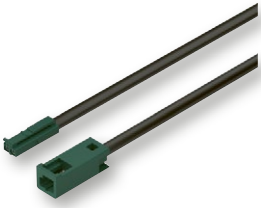


Charger wireless
Page 316



USB charging station
Page 318

Extension leads



Area of application: For monochrome lights and tunable white (2 wire technology) or other 2-pin devices and distributors

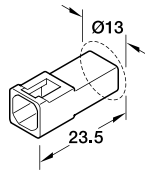
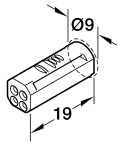
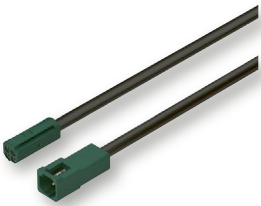
Material: Plastic

Current carrying capacity: max. 5 A

Wire cross section AWG: 18

Drill hole Ø: Plug 8 mm, socket 13 mm

Supplied with: 1 Extension lead
1 Plug/1 Socket



Area of application: For tunable white (3-wire technology) lights

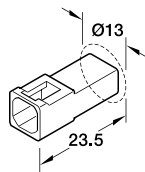
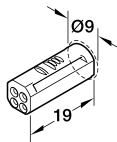
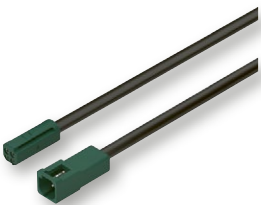
Material: Plastic

Current carrying capacity: max. 3.5 A

Wire cross section AWG: 20

Drill hole Ø: Plug 9 mm, socket 13 mm

Supplied with: 1 Extension lead
1 Plug/1 Socket



Area of application: For RGB lights

Material: Plastic

Current carrying capacity: max. 3.5 A

Wire cross section AWG: 20

Drill hole Ø: Plug 9 mm, socket 13 mm

Supplied with: 1 Extension lead
1 Plug/1 Socket

Monochrome and tunable white (2-wire technology)



	100 mm	500 mm	1000 mm	2000 mm
	833.95.916	833.95.719	833.95.718	833.95.717

Tunable white (3-wire technology)



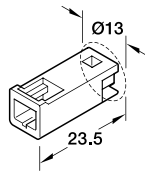
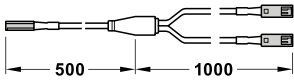
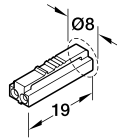
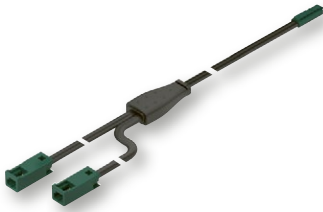
	-	833.95.794	833.95.796	833.95.720
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RGB



	-	-	-	833.95.721
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Extension leads



Area of application: For monochrome lights and other 2-pin devices and distributors

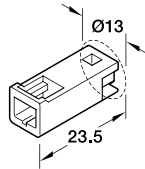
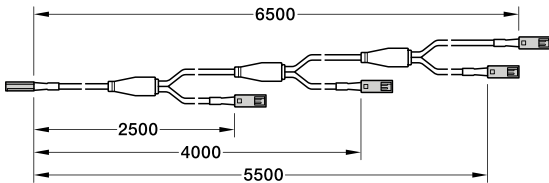
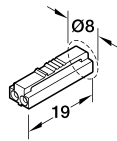
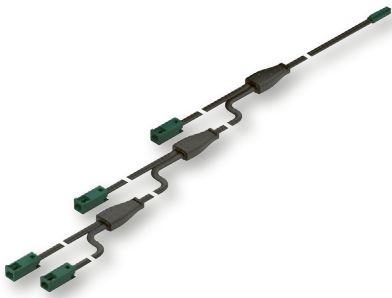
Material: Plastic

Current carrying capacity: max. 5 A

Wire cross section AWG: 18

Drill hole Ø: Plug 8 mm, socket 13 mm

Supplied with: 1 Extension lead
1 Plug/2 Sockets



Area of application: For monochrome lights and other 2-pin devices and distributors

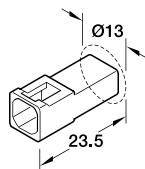
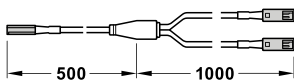
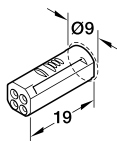
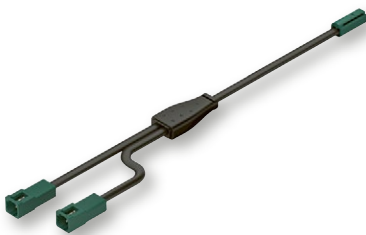
Material: Plastic

Current carrying capacity: max. 5 A

Wire cross section AWG: 18

Drill hole Ø: Plug 8 mm, socket 13 mm

Supplied with: 1 Extension lead
1 Plug/4 Sockets



Area of application: For tunable white lights

Material: Plastic

Current carrying capacity: max. 3.5 A

Wire cross section AWG: 20

Drill hole Ø: Plug 9 mm, socket 13 mm

Supplied with: 1 Extension lead
1 Plug/2 Sockets

Monochrome and
tunable white
(2-wire technology)



Length
mm

1500

Cat. No.

833.75.744

Note

Delivery Time : 90-120 Days

Monochrome and
tunable white
(2-wire technology)



6500

833.95.743

Tunable white
(3-wire technology)



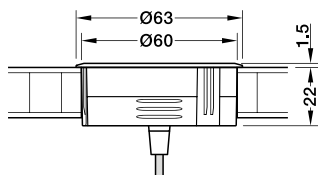
1500

833.93.739

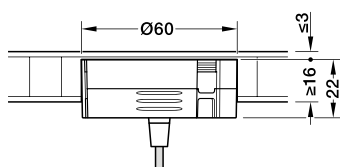
Note

Delivery Time : 90-120 Days

Inductive charging station



Installation with through hole



Installation with blind hole

- > Aesthetic solution: concealed installation possible
- > WPC Qi2 standard: Quick charging function and integrated magnets for optimum positioning for efficient charging and for vertical charging
- > Backwards compatible with Qi1

Version:	Removable cover
Material:	Aluminium/plastic
Dimensions (Ø x H):	58 x 23 mm
Output power:	Up to 20 W
Wattage:	20 W
for panel thickness:	≥16 mm
Degree of protection:	IP20
Installation:	Drilling in and clamping
Drill hole Ø:	60 mm
Cable length:	2000 mm
Supplied with:	1 Charging station 2 Covers (black, white) 1 Sticker for concealed installation mounting material incl. cable clamps



	Charging current	Black/white
Inductive charging station Qi2	1 x 1.25 A	833.73.822

Note

Driver output at least 20 W per charging station.
 When using an optional 6-way distributor with switching function or Connect Mesh, always connect this charging station to the 7th Connect output (continuous current) of the 6-way distributor.

Warning

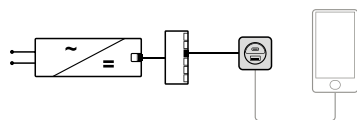
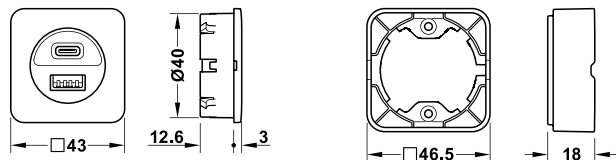
Magnetic fields that can affect pacemakers or other implanted devices can occur during the charging procedure.
 Contact the manufacturer of the implant before start-up/use.

Installation reference

In order to ensure the charging function, do not use in metallic materials or materials with a metal coating.
 Max. material penetration 3 mm.

Charging only works optimally when using appropriate mobile phone cases.

USB charging station



> For groove mounting or with optional housing
(included in scope of delivery)

Area of application:	Furniture
Material:	Plastic
Dimensions (Ø x H):	40 x 18 mm
Output voltage:	5 V
Output power:	14 W
Degree of protection:	IP20
Installation:	Drilling in and clamping, for screw fixing
Drill hole Ø:	40 mm
Cable length:	1500 mm
Supplied with:	1 USB charging station with lead 1 Housing

Charging socket	Charging current sockets	Black	White
1 x USB-A, 1 x USB-C	1 x 2.8 A	833.73.809	833.73.829

Note

Driver output min. 16 W per charging station

Installation reference

When using a 6-way distributor with switching function or Connect Mesh, please always connect this charging station to the 7th. Output (continuous current) of the 6-way distributor.

Planning notes.

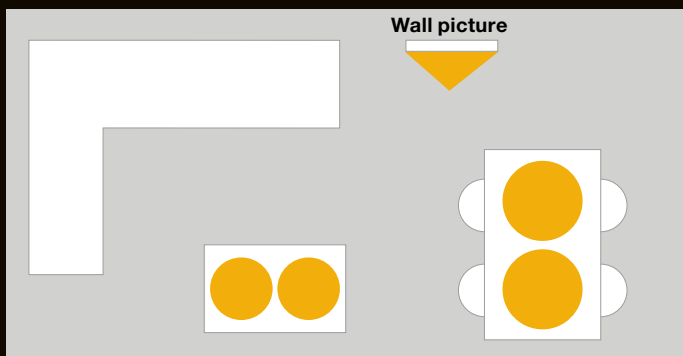
The topics.

• OneCable planning instructions	322
• Light effects and lighting technology	324
• Test icons and symbols	325
• Installation rules	326
• Glossary	327
• Technical questions FAQs	329
• Service⁺	332

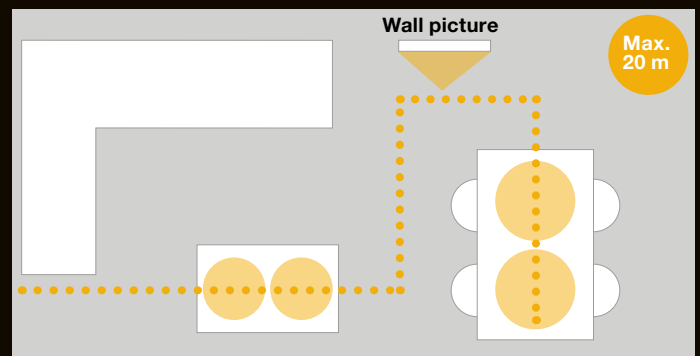
OneCable. Step by step.

Everyone is aware of the planning challenges, e.g. with permanently installed lights and fixed cable outlets in the wall and the ceiling. This not only limits your positioning options, it also means that you cannot react quickly to changes in the room.

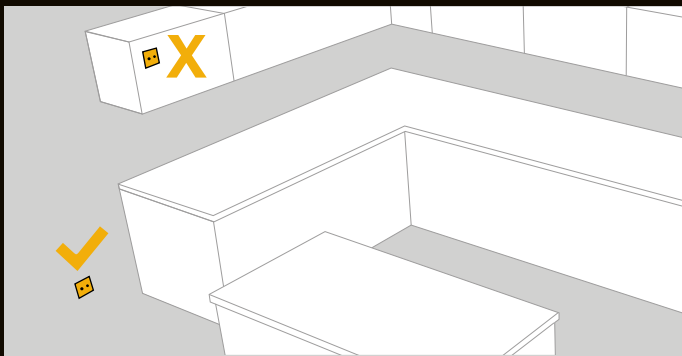
How to plan and implement OneCable.



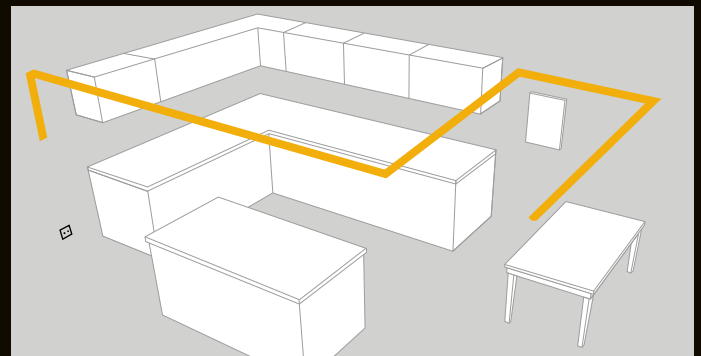
1. Plan out what lights you require.



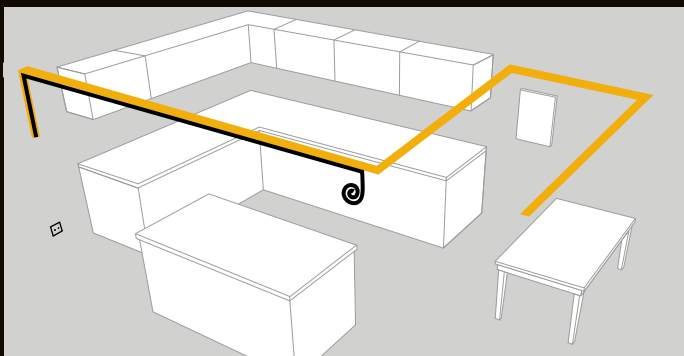
2. Plan out the route of the lighting system.



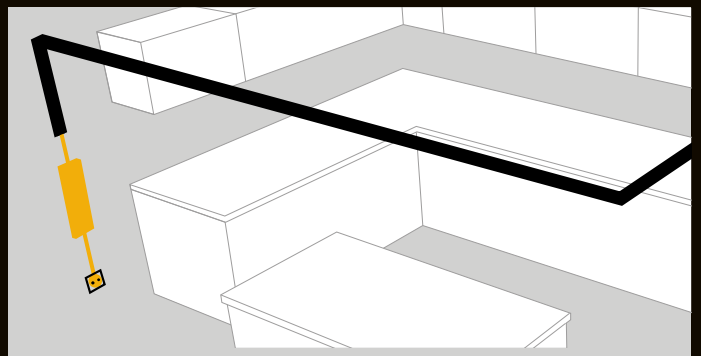
3. Decide on the starting point for OneCable.



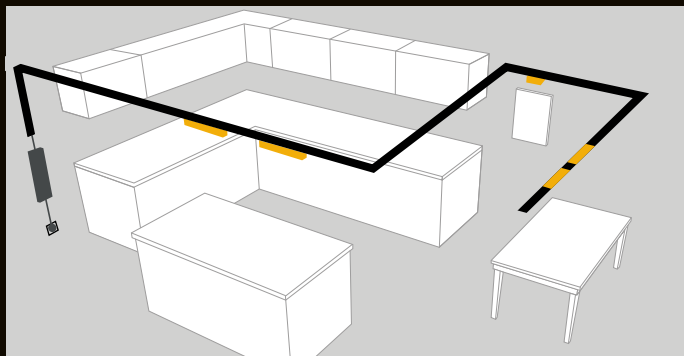
4. Route rails and corner connectors.



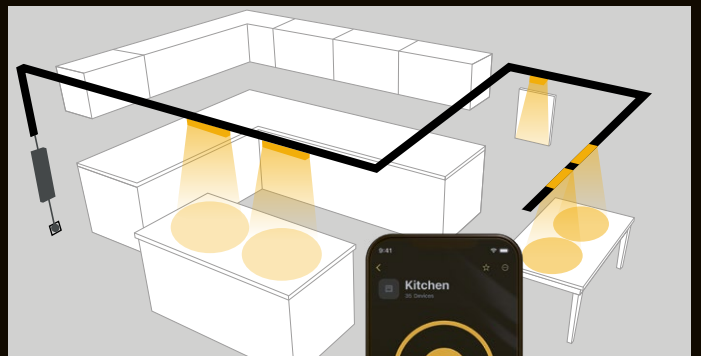
5. Insert a flat cable into the profile.



6. Electrical connection of OneCable.











7. Position the lights.



8. Set up the controller.

Test symbols and symbols.

Product features.

-  Dimmable
-  Monochrome = single-colour white/2-pin cables
-  Tunable white = variable changeable white/Luminaires with integrated mesh chip
-  Tunable white = variable changeable white/2-pin cables
-  Tunable white = variable changeable white/3-pin cables
-  RGB = coloured/4-pin cables
-  Bluetooth®
-  EasyPairing – quick coupling of Häfele Connect components




Certifications/test symbol.

-  Confirmation from the manufacturer that the product complies with the product-specific applicable European norms and standards. The mark will not be commercially published by Häfele Lighting.
- RoHS** Restriction of Hazardous Substances (EU directive 2011/65/EU). The mark will not be commercially published by Häfele Lighting.
-  UK Conformity Assessed (United Kingdom)
-  Underwriters Laboratories, compliance 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
- EAC** Eurasian Conformity, for CU countries (Russia, Kazakhstan, Belarus)
-  Bureau of Indian standards (India)
-  Korea Certification Mark
-  CMIM (Morocco)
-  Bureau of standards, Metrology & Inspection BSMI (for Taiwan)
-  Thai Industrial Standards Institute TISI
-  European Norms Electrical Certification, with indication of the test facility (one of 18 European national institutes)
-  TÜV seal of quality
-  VDE test symbol
- FC** Declaration of Conformity for telecommunication and radio equipment (USA)
-  Telecommunication and radio equipment (Japan)

The Bluetooth® word trademark and logos are registered trademarks of Bluetooth SIG, Inc., and Häfele Lighting uses these trademarks under licence. Other trademarks and names are the propriety of their respective owners.

Protection class.

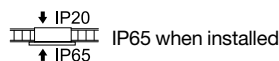
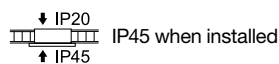
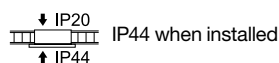
There are three valid protection classes. Protection class 1 is applicable for those lights without indication of the safety standard in the nameplate.

-  I Lights with a connection for earthed conductors to which all touchable metal parts must be connected, which can become live immediately in the event of a fault. Appliance with earthed conductor connection.
-  II No metal parts must be touchable here that can become live immediately in the event of a fault. Appliance without earthed conductor connection.
-  III Lights for operating with voltages that can be generated with a safety transformer in accordance with VDE 0551 or taken from batteries or rechargeable batteries. Appliance with protective extra-low voltage up to 25 V.






Degrees of protection.

Lights which do not specify the degree of protection have IP20 in accordance with DIN 40050.



- IP20** Protection against solid foreign bodies ($\varnothing > 12.5$ mm), no protection against water
- IP44** Protection against solid foreign bodies ($\varnothing > 1$ mm), protection against splash water on all sides
- IP45** Protection against solid foreign bodies ($\varnothing > 1$ mm), protection against water jets (nozzle) from any angle
- IP54** Dust protected, protection against splash water on all sides
- IP65** Dustproof; protection against water jets (nozzle) from any angle.
- IP67** Dustproof, protection against temporary immersion in water



Safety symbols.

-  Maximum 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

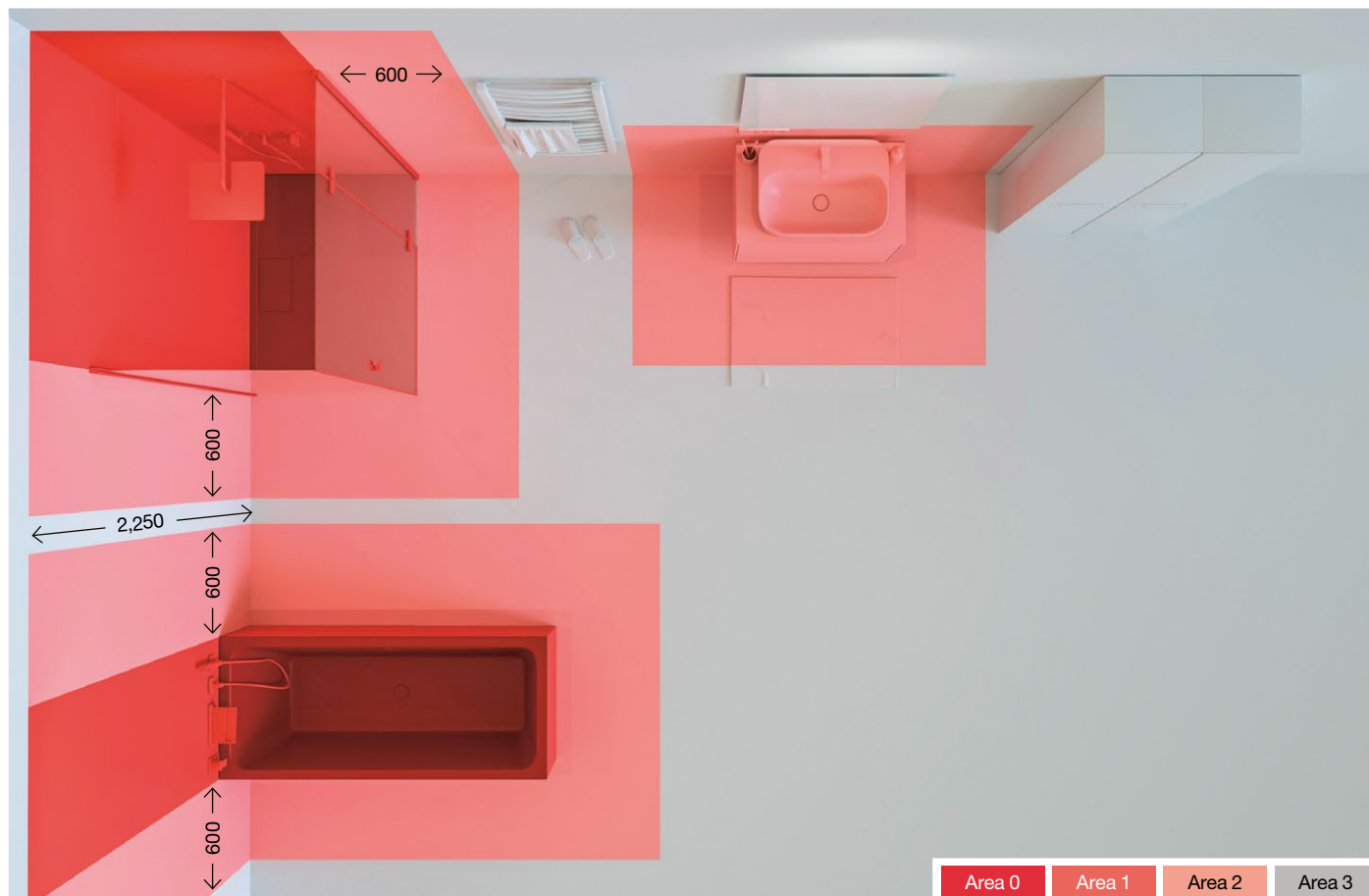
Voltage supply.

- SELV** Safety Extra Low Voltage
-  Independent operating unit for use outside of light without additional cover.
-  Short-circuit proof with safety isolation

Installation rules for lights in bathrooms in residential areas.

If lights are being installed in rooms with a bathtub, shower and washbasin, the areas and degrees of protection listed below must be noted when selecting the products with

regard to protection from moisture and water. Selection and installation must take place in such a way that danger from electrical current can be ruled out.



Details and illustration based on VDE 0100-701. No liability accepted for correctness. Consultation of specialist literature or trained specialists advisable.

Area 0/degree of protection IPX7:

Interior of the shower tray or bathtub, which fills with water when the drain is closed. In this case only low-voltage systems may be used that are IPX7 certified and explicitly approved for the tray/tub interior. Products such as this are not shown in the catalogue! The driver and the plug connections may only be in zone 3.

Area 1/degree of protection min. IPX5:

Height:

From finished floor to a height of 2,250 mm or to the height of the water outlet, if this is higher. Only low-voltage systems up to a maximum of 60 V DC may be used here.

Area:

If a tray/tub is present, directly above and directly below zone 0.

Or if no tray/tub is present, within a radius of 1,200 mm around the water outlet in its idle position. If open partition walls are present, the thread size is 600 mm and is led from the partition wall (the corner facing the water outlet) around the wall. Zone 2 does not exist for showers without a tray. Drivers and plug connections may only be in zone 3.

Area 2/degree of protection min. IPX4:

Follows area 1. Applies to surfaces around a bathtub or shower partition walls with a depth of 600 mm and a height of 2,250 mm or up to the height of the water outlet, if this is higher.

If water jets are possible, e.g. from water nozzles for massaging, degree of protection IPX5 is required!

The driver and the plug connections may only be in zone 3.

Area 3/degree of protection IPX0:

Everywhere outside areas 0, 1 and 2.

Wash basin:

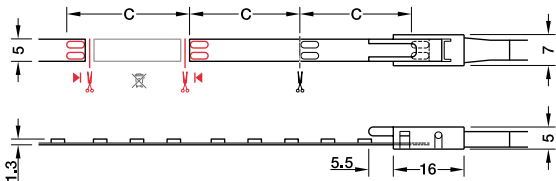
There is no German standard for the area around the washbasin. Bathrooms have been protected with leakage current protection switches since 1984, therefore an electrical installation around the washbasin is permitted. If you have a bathroom or toilet without a leakage current protection switch, please consult a trained specialist. A pragmatic option is to treat a radius of 600 mm around the water tap like zone 2.

Glossary.

- 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 Lighting exclusively uses bins with a high brightness level in order to guarantee high efficiency.
- COB** See **LED**
- 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.
- 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 strip length (LED 3150/3151/3152/3153).
- 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 tracks. A drop in luminous flux of up to 30% from the first to the last LED is not significantly perceived by the human eye. For this reason, Häfele Lighting 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 3150/3151/3152/3153) are almost identical.
- Energy efficiency class** The energy consumption of light sources is presented in classes from A to G in accordance with Regulation (EU) 2019/2015. Excluded are non-white light sources (e.g. RGB) and light sources with a luminous flux of less than 60 lumens.
- Energy consumption** The energy consumption describes the electrical power that a product consumes during operation. It is usually specified in Watts (W), and is a key criterion for evaluating the energy efficiency of a product.
- The current **EU regulation 2019/2015** applies. Manufacturers must register products in the **EPREL database** (European Product Registry for Energy Labelling) and provide detailed information about energy consumption, luminous efficiency (lumens per Watt), the life time and other technical characteristics. It is specified on the EU energy label from A (very efficient) to G (less efficient).
- With some of the products, a sustainable design concept is used, so that we are able to remove and replace the light source from the lights without causing destruction in the event of a defect. These lights are therefore considered a “surrounding product” and do not require an energy label. Furthermore, lights with less than 60 lm are exempt from the registration requirement.
- Human Centric Lighting (day-dependent light colours)** Light influences well-being and the productivity of the users. One of the goals of light planning is therefore to adapt the brightness and the colour temperature to the needs of the person. It is about the Human Centric Lighting planning concept. As well as the function of the room, the time of day of use plays an important part. The rule of thumb for rooms with a working function or for early times of day: cold and bright light supports high levels of concentration and productivity (the production of melatonin in the body is suppressed). Well-being areas or a late time of day require warm, dimmed light in order to support the relaxation process of the users.
- The following Häfele Lighting products are suitable for the requirements of Human Centric Lighting:
- Tunable white lights make it possible to change the colour temperature
 - Häfele Connect makes it possible to control the colour of tunable white lights and set up daylight-dependent lighting scenes.
 - LED 3104 is available with pronounced warm white (2,200 K) and pronounced daylight white (6,500 K).
- 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.
- 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 which is attached to a metal holder and encapsulated with a phosphor layer, which converts the light that is generated into white light. COB LED’s generate extensive light. This is achieved by placing several small LEDs in close proximity to each other and covering them with a phosphor layer. COD LEDs are used in point lights or linear lights (strip lights).
- Life time** Specified in operating hours. The life time mainly depends on the warming of the products. The hotter the environment, the shorter the life time. The replacement rate in years is calculated from the total life time and the average operating time per annum.
- The following table can be used as a planning aid. The specified life time relates to L70/B50.

Indoor use	Annual operating time (EN 15193) hours	Renovation rate in years	Life time installation Hours
Office	2,500	20	50,000
Education	2,000	25	50,000
Hospital	5,000	10	50,000
Hotel	5,000	10	50,000
Restaurant	2,500	10	25,000
Shop	5,000	10	50,000

Glossary.

Life time Lx/By	<p>The service life is specified in hours. L represents the proportion of the original luminous flux that is still radiated by the light after the service life. B represents the affected lights in percent (not a complete failure, but the proportion of lights that undershoot the value from L).</p> <p>Example of life time L80/B10 >50,000 hrs.: After a life time of at least 50,000 hours, the light still radiates 80 % of its original luminous flux. Of 100 lights of the same type, 10 lights undershoot this amount of luminous flux (10 %).</p>
Light colour and colour temperature	See chapter Light effects and lighting technology
Light permeability	Ratio of transmitted light to incidental light. An ideal transparent body has light permeability of 100 %.
Lumen	See luminous flux
Luminous efficiency	The luminous efficacy is the ratio of the luminous flux and the wattage absorbed. It is used to measure the operating efficiency of the light source. It is indicated in Lumen per Watt (lm/W).
Luminous flux	It is indicated in Lumen (lm). The luminous flux indicates the light output, i.e. the quantity of light a light source emits. The value may be subject to measurement and production-related fluctuations of $\pm 10\%$.
Lux	See illuminance
Memory function	The most recent status of the switch or distributor (on/off, and optionally the dimming level and light colour) is saved. The memory function "after currentless" means that the most recent status is saved despite prior disconnection from the mains voltage. When using components with Häfele Connect, the last status or a user-defined status for each channel and for each mesh-capable component can be defined via the app for the status of the component after disconnection from the mains.
Monochrome	Häfele Lighting designates white light that is emitted by a single-colour LED as monochrome light. Physically, the white light consists of different wavelengths, but to the viewer it looks like monochrome white light. Monochrome lights are available in different light colours/colour temperatures from warm white to daylight white. Single-colour red, blue or green light emitted by a single LED is also referred to as monochrome, and physically consists of just one wavelength or a very narrow spectrum of wavelengths.
Refraction angle	The specified beam angle (half-value angle) defines the idealised cone-shaped area in which the illuminance is at least 50 %. The full illuminance is achieved at the centre of the cone.
RGB	<p>The light colour RGB is the abbreviation for red, green and blue. More than 16 million colour combinations are mixed from the three basic colours with Häfele Connect.</p> <p>Note: If only one cable of the RGB adapter is connected to a standard 6-way distributor with switching function, the light can be operated as a monochrome light with a single light colour (e.g. red, green or blue). No other Häfele Connect component is required apart from the adapter.</p>
RoHS – Lead in products	<p>Häfele Lighting products are lead-free and comply with the RoHS Directive. RoHS is part of CE conformity.</p> <p>All Häfele Lighting products are CE compliant. Häfele Lighting does not advertise the CE conformity in its catalogues, since only CE compliant products may be offered. The declaration of conformity is available online at www.hafele.com</p>
Shortening or connecting LED strip lights	 <p>C = Cut length</p> <p>Connecting LED strip lights (red) Two contact sides are required</p>
Transmittance	See light permeability
Tunable white	<p>The tunable white light colour is continuously mixed with Häfele Connect from two monochrome light colours (e.g. warm white and daylight white).</p> <p>Note: If only one cable of the tunable white adapter is connected to a standard 6-way distributor with switching function, the light can be operated as a monochrome light with a single light colour (e.g. warm white or cool white). No other Häfele Connect component is then required apart from the adapter.</p>
Visual strip light length	See Drop in luminous flux

Technical questions | FAQs.

What is the life time of the products in permanent operation?

Häfele Lighting drivers (Pro) >50,000 hrs. at max. ambient temperature (40 °C/45 °C), wall plug drivers and drivers with a switching function 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. At an ambient temperature <30° C, the life time is doubled. Häfele Lighting LED strip lights (Pro) >50,000 hrs. at an ambient temperature of max. 45 °C. Cooling with an aluminium profile is recommended from 9.6 W/m.

Illuminating.

If the illuminance of an LED strip light measured with or without a diffuser?

The illuminance is measured at the LED strip light without a diffuser and without a profile, since the profile and the diffusers can be combined with the strip lights in a variable way. With diffusers the light permeability is specified in order to be able to estimate the loss. In case of doubt, we recommend carrying out a test to check out the effect of profiles.

Which LED strips are suitable for 24/7 permanent operation?

In order to guarantee years of problem-free operation, we recommend using an LED strip light from the Pro product range (constant current strip lights are optimal) in an aluminium profile.

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.

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

This may be so, but the acrylic glass amplifies the minimal colour differences between the LEDs (binning) many times, making the smallest colour deviations more visible.

How is consistent bulb light colour guaranteed?

Häfele Lighting places high demands on the selection of the materials. High-quality and durable LEDs from Cree and Lumileds are used in the majority of Häfele Lighting LED strip lights. Setting very tight quality specifications ensures not only luminous flux and breakdown voltage, but also consistent light colour for follow-up purchases.

Can Häfele Lighting lights be used in caravans/boats/cars?

Voltage fluctuations may occur in the on-board power supply. Häfele Lighting products are designed for a voltage tolerance of $\pm 5\%$ in relation to the nominal voltage of 12 V or 24 V. Should higher voltages occur for extended or even brief periods, a voltage stabiliser/smoothener must be used in addition on site in order to prevent dangerous overheating or damage to the light. Special LED strip lights with constant current control from our product range can be used without voltage stabilisers/smoothers. The requirements with regard to electromagnetic compatibility must also be observed during installation. These are defined in Regulation No. 10 of the Economic Commission for Europe of the United Nations (UN/ECE R10)

Are Häfele Lighting lights suitable for use in museums?

Yes, mainly LED lights are currently used for new installations in museums. The advantages are the complete avoidance of ultraviolet radiation and a very low proportion of IR radiation (thermal radiation).

Can I use Häfele Lighting lights in saunas and bathrooms?

Yes. This applies to all lights which provide protection of at least IP44 (preferably IP67) when installed. This is sufficient for many applications. LED silicone strip lights are IP44 protected as well. However, it must be ensured that the driver and mains lead are dry. Attention must also be paid to the maximum ambient temperature. See installation rules for bathrooms in residential areas, page 130.

Controlling wired.

How can sensor switch malfunctions be avoided?

Check for correct switch installation.

Can Häfele Lighting lights also be operated with multiple switches?

Yes, please use the multi switch box to do this. Up to three switches can be connected to the multi switch box.

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.

Technical questions | FAQs.

Controlling wireless.

Is Häfele Connect compatible with previous Loox generations?	Yes, please use appropriate adapters. You can find more information under "Help & user manual" in the Connect Mesh App
What is EasyPairing	This operation mode without an app allows an initial level of connectivity functions: coupling and control by sensors without an app. All lights are part of the same group (on/off/dimming level/light colour). Ideal for individual pieces of furniture, simple lighting controls and "standalone solutions".
Is the Bluetooth® connection in the Connect Mesh network secure?	Yes, every Mesh data package ensures that the identity of the user is protected. The data package does not contain values such as source and target addresses.
Can I back up my network?	Yes, this is possible and is recommended. The network can be backed up using various options via the export function in the Connect Mesh App. For more information, see the operating instructions or the help in the Connect Mesh App.
Can I share the network with other users?	Yes, that is possible. The export/import function within the Connect Mesh app is used for this purpose. For more information, see the operating instructions or the help in the Connect Mesh App.
Can you switch off a light scene?	A light scene represents a defined condition. In this way, a light scene is always activated (or switched on). Switching off the light requires another defined status with switched off lights. This can be set via the scene or by means of group switching.
What is the service life of the battery?	The life time is 3-5 years, depending on the number of switching cycles.
Where can the battery status be read off?	The battery status is shown in the Connect Mesh app.
How does the reset of Häfele Connect components work?	Basically, there are two ways of performing a reset. The first and preferred option is the reset using the Connect Mesh App. Here you can select and reset the device in the Connect Mesh App. ATTENTION: A reset deletes all device settings (i.e. assignment to groups, scenes, schedules, etc.). If the device is not accessible or has not been woken up in the case of battery-operated devices, the Connect Mesh App can forget the devices. This deletes the device from the Connect Mesh App, but does not reset the hardware. In this case, the device can be reset using the reset button. The reset button must be pressed for more than 8 seconds in this case. The reset can also be carried out using a magnet in the case of ceiling lights. Devices without a reset button must be reset in the Connect Mesh App using Expert mode. General and supplementary information can be found under the "Help & User Manual" heading in the Connect Mesh App.
2-channel interface: can consumers be dimmed?	The interface is exclusively for on/off switching functions.
Why is the LED of the Connect Mesh 6-way distributor continuously on?	The distributor is coupled and ready for use.
Why is the LED of the Connect Mesh 6-way distributor flashing?	The distributor is ready for coupling (provisioning).
What is the range of my Connect Mesh network?	The range specification applies if there is unobstructed visibility. Obstacles and electromagnetic interference sources can reduce the range. The Bluetooth® range of a single device is up to 10 m. The range can be significantly increased in the network connection, since the individual mesh devices communicate with each other multi-directionally.

Controlling.

Can multiple distributors be cascaded? Yes, the only restrictions are the wattage of the driver and the maximum lead length of 10 m from the driver to the light.

Can multiple 6-way distributors with a switching function be cascaded? Yes, and switches can also be used. The switch of the first box becomes the main switch.
Note: only the last level in a cascade can contain dimmers.
Dimmers at a higher level would interfere with the switching function of the downstream distributors.

How long may the lead between the driver and the device be? The maximum lead length from the Häfele Lighting driver to the consumer is 10 m.
Due to long cable lengths in conjunction with large loads (strip light lengths), voltage losses occur 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.

Can 12 V and 24 V lights be used on the same distributor? No, only with an appropriate converter.

What does AWG mean in the specification of cables? 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 a cable? Häfele Lighting allows the following current carrying capacity and wattage (at a max. ambient temperature of 45° C):

Type of cable	24 AWG	22 AWG	20 AWG	18 AWG
Cable cross section	0.21 mm ²	0.33 mm ²	0.518 mm ²	0.823 mm ²
Current carrying capacity	1.5 A	2.5 A	3.5 A	5.0 A
Voltage	24 V	24 V	24 V	24 V
Wattage	36 W	60 W	84 W	120 W

The cable type is printed on the sheathing of the cable.

Supplying.

May I use drivers from other manufacturers? In order to ensure the safety and functionality of the installation, only Häfele Lighting drivers or drivers which have been expressly approved by Häfele Lighting may be used. If a qualified electrician installs the system, Häfele Lighting products may 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.

Why do the lights have to be plugged in first before the driver is connected to the mains voltage with the mains lead? If the driver is connected to the mains voltage first, electrical power is output at the secondary side, which leads to overvoltage and therefore damage to the lights if they are connected.

Why does my LED light flash? Flashing is a sign of overloading.
Use a driver with higher power or reduce the number of devices.

How do I create an inspection opening in the cabinet? Tip: install the drivers/distributors in the furniture plinth or above the cabinet top (with cover). Provide bases or cabinet tops with an opening and cover them with an additional removable positive-fitting shelf.
Only the shelf needs to be removed for inspecting.

Accessories.

Which expansion options are possible? The Häfele Lighting System can be extended with charging stations (USB and inductive).

Service⁺



With Service⁺ to the perfect lighting solution – holistic, individual and professional.

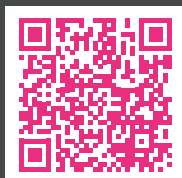
With Service⁺ we provide you with comprehensive service and targeted planning support for your lighting project. Our experts collaborate with you to develop a tailored lighting proposal that is exactly coordinated with the spatial situation, the interior equipment and the architecture. The finished 3D planning visualises the planning and provides you with effective support in giving customer advice.

Our Service⁺ includes more than just planning:

Benefit from the system and assembly planning, the technical customer service and the ready-to-use components that will make your project implementation easier and faster. In the Häfele Lighting Academy, we also provide you with valuable knowledge about lighting, technology and application – compact, comprehensive and directly from practice.

Further information can be found at:

The Plus Services | <https://www.hafele.com.de/en/info/service/plus-services/169574/>



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Gordon Koelmel Page 19
Andi Wimmer Page 17
Silas Jean-Pierre Bubser Page 14; 15; 18
Tom Wahl Page 49
Valentin Mühl Page 2/3; 8/9; 24/25; 28/29; 32/33

ข้อควรทราบ ในการวางแผนติดตั้ง

HAFELE Lighting

The Catalogue

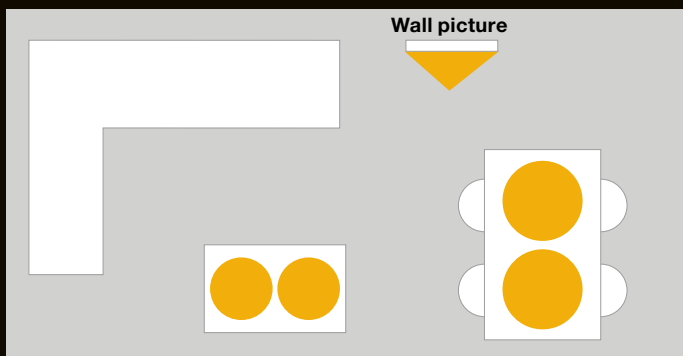
หัวข้อ

- คำแนะนำการวางแผนระบบ OneCable 336
- เอฟเฟกต์แสงและเทคโนโลยีแสงสว่าง 338
- ไอคอนและสัญลักษณ์สำหรับการทดสอบ 339
- ข้อกำหนดในการติดตั้ง 340
- คำศัพท์เฉพาะทาง 341
- คำถามทางเทคนิค | คำถามที่พบบ่อย 343
- บริการเพิ่มเติม 346

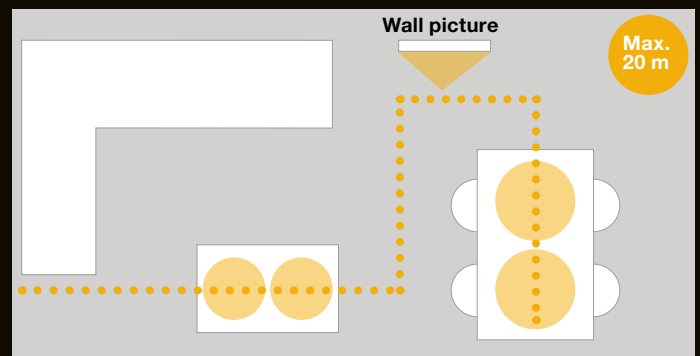
ขั้นตอนการวางแผน และติดตั้งที่ละขั้นตอน

ทุกคนต่างตระหนักดีถึงความท้าทายในการวางแผนระบบไฟส่องสว่าง โดยเฉพาะในกรณีที่มีการติดตั้งโคมไฟแบบถาวร และมีจุดต่อสายไฟที่ฝังอยู่ในผนังหรือเพดาน ซึ่งข้อจำกัดเหล่านี้ไม่เพียงแต่ทำให้ตำแหน่งการติดตั้งเป็นไปได้จำกัดเท่านั้น แต่ยังทำให้ไม่สามารถปรับเปลี่ยนตำแหน่งได้อย่างยืดหยุ่น เมื่อมีการเปลี่ยนแปลงการจัดวางภายในห้อง

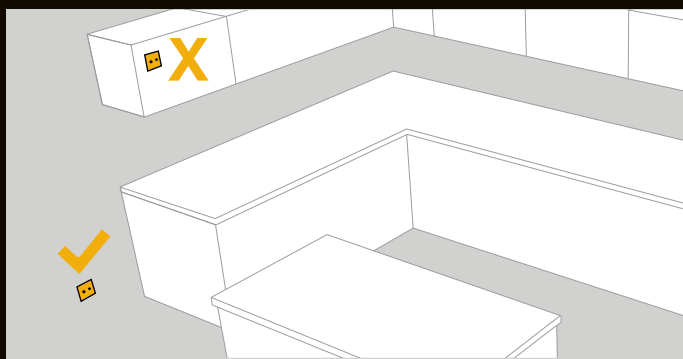
แนวทางการวางแผนและติดตั้งระบบ OneCable



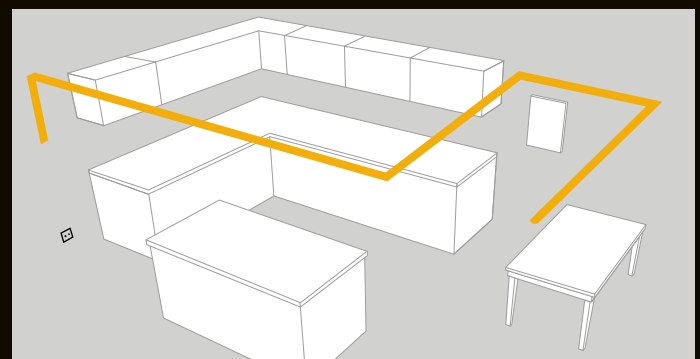
1. Plan out what lights you require.



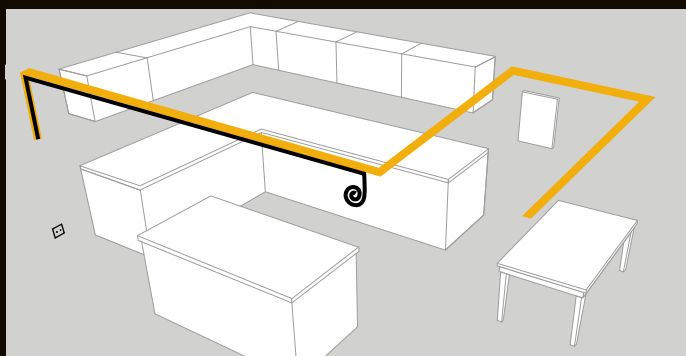
2. Plan out the route of the lighting system.



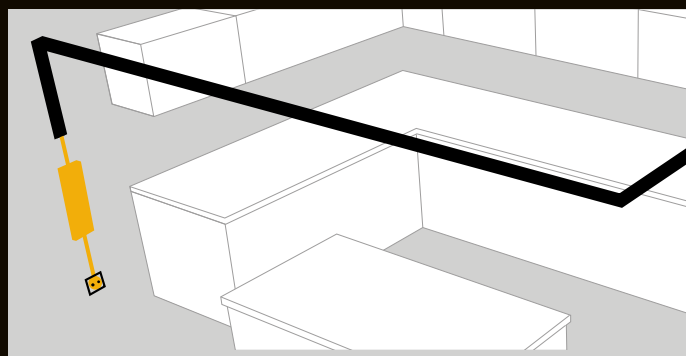
3. Decide on the starting point for OneCable.



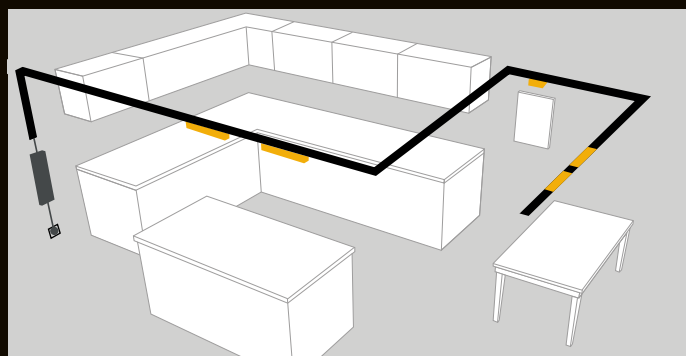
4. Route rails and corner connectors.



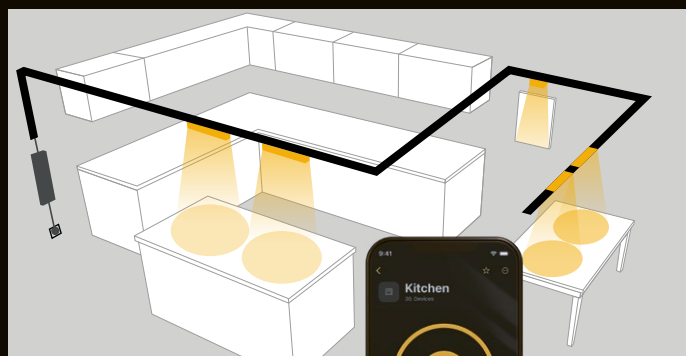
5. Insert a flat cable into the profile.



6. Electrical connection of OneCable.



7. Position the lights.

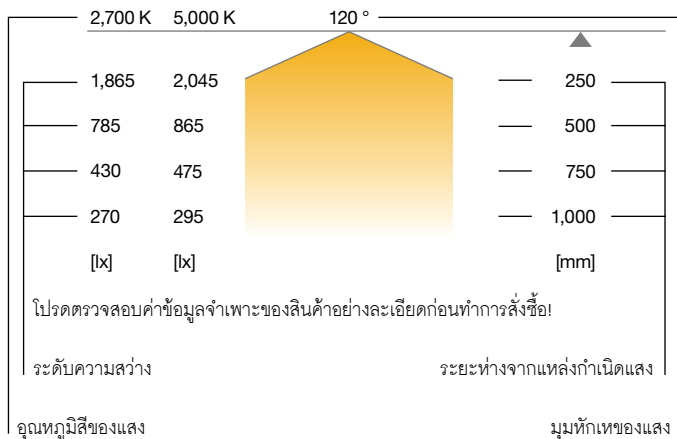


8. Set up the controller.

เอฟเฟกต์แสงและเทคโนโลยีแสงสว่าง

อ่านค่าความสว่าง ที่บริเวณกรวยของแสง

โคมไฟแต่ละรุ่น ทั้งแบบแสงสีเดียวและแบบปรับอุณหภูมิสีได้ในแคตตาล็อกนี้ มาพร้อมแผนภาพกรวยแสง ซึ่งแสดงข้อมูลระดับความสว่าง เพื่อช่วยให้สามารถประเมินประสิทธิภาพการกระจายแสงของโคมไฟได้อย่างแม่นยำ



หมายเหตุ:

ค่าข้อมูลจำเพาะของสินค้า สามารถตรวจสอบได้ในหน้าสินค้านั้นๆ สำหรับไฟเส้น LED ค่าความสว่างอ้างอิงต่อความยาวของไฟ 1 เมตร อุณหภูมิสีระหว่าง 3,000 K ถึง 4,000 K จะส่งผลต่อระดับความสว่าง ให้มีความแตกต่างกันอย่างมีนัยสำคัญ

แหล่งกำเนิดแสง

รูปทรงและมุมลำแสงของโคมไฟมีผลโดยตรงต่อเอฟเฟกต์ของแสง

ไฟส่องสว่างแบบเส้นตรง

- ให้เอฟเฟกต์แสงแบบสองมิติ
- ปรับเปลี่ยนได้หลากหลายตามชนิดของไฟเส้น LED และรางโปรไฟล์

สีของแสงและอุณหภูมิสี

การเลือกสีของแสงและอุณหภูมิสีมีผลต่ออารมณ์และความเป็นอยู่ของเราอย่างชัดเจน:

แสงสีเดียว = สีขาวเพียงสีเดียว

แบ่งตามช่วงอุณหภูมิสีดังนี้:

- Warm White: ต่ำกว่า 3,300 เคลวิน
 - Neutral White: 3,300 — 5,300 เคลวิน
 - Daylight White: สูงกว่า 5,300 เคลวิน
- สายไฟ 2 สายใช้สำหรับจ่ายไฟฟ้า

RGB = แสงสี

- ให้สีได้ถึง 16 ล้านเฉดสี โดยใช้ การผสมสีแบบเพิ่มแสง
- ใช้ สายไฟ 4 ขา

คำแนะนำระดับความสว่าง สำหรับพื้นที่ภายในอาคาร

อุณหภูมิสีของแสงมีผลต่อการมองเห็นพื้นผิวแต่ละประเภทแตกต่างกันไม่ว่าจะเป็นไม้ หิน สีเข้ม หรือสีอ่อน ทั้งนี้ขึ้นอยู่กับความชอบส่วนบุคคลของผู้ใช้งานด้วย หากจำเป็น ควรทดสอบอุณหภูมิสีของแสงกับตัวอย่างวัสดุจริงก่อนการติดตั้ง เพื่อให้ได้บรรยากาศของแสงที่ตรงตามต้องการ

Interior room type	Illuminance in Lux on		Colour temperature
	Working height 750 mm	Floor height	
Kitchens, offices	500	150	2,700–4,000 K
Dining area	300	100	2,700–4,000 K
Store fixtures, galleries	300–500	150	4,000–6,500 K
Bedroom, living room	200–300	100	2,700–4,000 K
Bathroom	200–450	150	3,000–4,000 K
Storage room	200	100	4,000–5,000 K
Traffic areas	–	100	4,000–5,000 K
Orientation light	–	25–50	4000–5,000 K

ดาวไลท์และไฟส่องสว่างแบบพื้นผิว









- ให้เอฟเฟกต์แสงแบบเน้นจุดเมื่อติดตั้งเพียงดวงเดียว
- ให้เอฟเฟกต์แสงแบบสองมิติเมื่อใช้ร่วมกันหลายดวง

Tunable White = แสงขาวปรับค่าได้




















- ให้สีแสงต่อเนื่องตั้งแต่ Warm White จนถึง Neutral White
- ใช้ สายไฟ 3 สาย หรือ สายไฟ 2 สาย พร้อมเทคโนโลยี 2-wire

ไอคอนและสัญลักษณ์สำหรับการทดสอบ

คุณสมบัติของผลิตภัณฑ์

-  ปรับลดความสว่างได้
-  แสงขาวสีเดียว / 2 สาย
-  แสงสีขาวทูลากโทนสี / โคมไฟมาพร้อมชิป Mesh ในตัว
-  แสงสีขาวทูลากโทนสี / 2 สาย
-  แสงสีขาวทูลากโทนสี / 3 สาย
-  แสงไฟ RGB / 4 สาย
-  Bluetooth®
-  การเชื่อมต่อส่วนประกอบของระบบ Häfele Connect อย่างรวดเร็ว




สัญลักษณ์การทดสอบ

-  มาตรฐานด้านความปลอดภัยของยุโรป
-  ตรวจสอบสารที่เป็นอันตรายในอุปกรณ์เครื่องใช้ไฟฟ้าและอิเล็กทรอนิกส์ (เป็นข้อกำหนดที่ 2011/65/EC ของสหภาพยุโรป)
-  มาตรฐานการด้านความปลอดภัยของผลิตภัณฑ์ในสหราชอาณาจักร
-  มาตรฐานทดสอบความปลอดภัยจากห้องปฏิบัติการประเทศแคนาดาและอเมริกา
-  มาตรฐานประสิทธิภาพการใช้พลังงาน VI ของกระทรวงพลังงานของสหรัฐอเมริกา
-  มาตรฐานด้านความปลอดภัยของเครื่องใช้ไฟฟ้าและกฎหมายควบคุมความปลอดภัยของวัสดุประเทศญี่ปุ่น
-  มาตรฐานด้านความปลอดภัยประเทศออสเตรเลีย
-  มาตรฐานด้านความปลอดภัยประเทศจีน
-  มาตรฐานด้านความปลอดภัยของสหภาพเอเชีย สำหรับประเทศ CU (รัสเซีย, คาซัคสถาน, เบลารุส)
-  มาตรฐานด้านความปลอดภัยประเทศอินเดีย
-  มาตรฐานด้านความปลอดภัยประเทศเกาหลี
-  มาตรฐานการด้านความปลอดภัยของผลิตภัณฑ์ประเทศโมร็อกโก
-  สำนักมาตรฐานและตรวจสอบสินค้าของไต้หวัน
-  มาตรฐานด้านความปลอดภัยเกี่ยวกับผลิตภัณฑ์อุตสาหกรรมที่ควบคุมจากสำนักงานมาตรฐานอุตสาหกรรม (มอก.) ประเทศไทย
-  มาตรฐานคุณภาพของสินค้าในกลุ่มเครื่องใช้ไฟฟ้าของ ENEC
-  รับรองคุณภาพและความปลอดภัยจากสถาบันในเครือ TÜV ประเทศเยอรมนี
-  รับรองมาตรฐานความปลอดภัยของผลิตภัณฑ์ไฟฟ้าจากสถาบันทดสอบและรับรอง VDE ประเทศเยอรมนี
-  มาตรฐานทางเทคนิคของเครื่องโทรคมนาคมและอุปกรณ์ของประเทศอเมริกา
-  มาตรฐานทางเทคนิคของเครื่องโทรคมนาคมและอุปกรณ์ของประเทศญี่ปุ่น

Bluetooth® และโลโก้เป็นเครื่องหมายการค้าจดทะเบียนของบริษัท Bluetooth SIG, Inc. และ Häfele Lighting ได้รับอนุญาตให้ใช้เครื่องหมายการค้านี้ได้อย่างถูกต้อง เครื่องหมายการค้าและชื่ออื่น ๆ เป็นทรัพย์สินของเจ้าของที่เกี่ยวข้อง

ระดับคลาสการป้องกัน


มีระดับการป้องกันที่ถูกต้องสามระดับ โดยระดับการป้องกันที่ 1 ใช้กับโคมไฟที่ไม่มีการระบุมาตรฐานความปลอดภัยไว้บนแผ่นป้ายชื่อ


-  I โคมไฟที่มีการต่อสายดิน โดยทุกส่วนที่เป็นโลหะซึ่งสามารถสัมผัสได้ต้องเชื่อมต่อกับสายดิน เพื่อป้องกันกระแสไฟรั่วในกรณีที่เกิดความขัดข้องของระบบไฟฟ้า
-  II โคมไฟที่ไม่ต้องต่อสายดิน และไม่มีส่วนโลหะที่อาจมีกระแสไฟรั่วเมื่อเกิดความขัดข้องของระบบไฟฟ้า
-  III โคมไฟแรงดันไฟฟ้าต่ำเป็นพิเศษ (ไม่เกิน 25 โวลต์) ใช้กับหม้อแปลงนิรภัยตามมาตรฐาน VDE 0551 หรือกับแบตเตอรี่และแบตเตอรี่แบบชาร์จได้

ระดับการป้องกัน

โคมไฟที่ไม่ได้ระบุระดับการป้องกัน จะถือว่ามีระดับการป้องกัน IP20 ตามมาตรฐาน DIN 40050






- IP20 ป้องกันวัตถุของแข็งขนาดใหญ่กว่า 12.5 มม. แต่ไม่สามารถป้องกันน้ำได้
- IP44 ป้องกันวัตถุของแข็งขนาดใหญ่กว่า 1 มม. และป้องกันน้ำกระเซ็นได้จากทุกทิศทาง
- IP45 ป้องกันวัตถุของแข็งขนาดใหญ่กว่า 1 มม. และป้องกันน้ำที่ฉีดเป็นสายจากหัวฉีดได้จากทุกมุม
- IP54 ป้องกันฝุ่นในระดับหนึ่ง และ ป้องกันน้ำกระเซ็นได้จากทุกทิศทาง
- IP65 ป้องกันฝุ่นได้อย่างสมบูรณ์ และป้องกันน้ำที่ฉีดเป็นสายจากหัวฉีดได้จากทุกมุม
- IP67 ป้องกันฝุ่นได้อย่างสมบูรณ์ และป้องกันการแช่น้ำชั่วคราวได้

 ↓ IP20
↑ IP44 หลังจากการติดตั้งเป็นไปตามมาตรฐาน IP44



 ↓ IP20
↑ IP45 หลังจากการติดตั้งเป็นไปตามมาตรฐาน IP45

 ↓ IP20
↑ IP65 หลังจากการติดตั้งเป็นไปตามมาตรฐาน IP65

ฉลากความปลอดภัย

-  อุณหภูมิพื้นผิวมากที่สุดในการเกิดความร้อน
-  ไฟนี้สำหรับใช้ภายในบ้านเท่านั้นไม่ควรนำมาใช้ภายนอก
-  ไม่ใช้ส่วนประกอบที่ก่อให้เกิดการแผ่รังสีความร้อน
-  ของเสียจากอุปกรณ์ไฟฟ้าและอิเล็กทรอนิกส์อย่าทิ้งขยะที่อยู่อาศัย!
-  หม้อแปลง

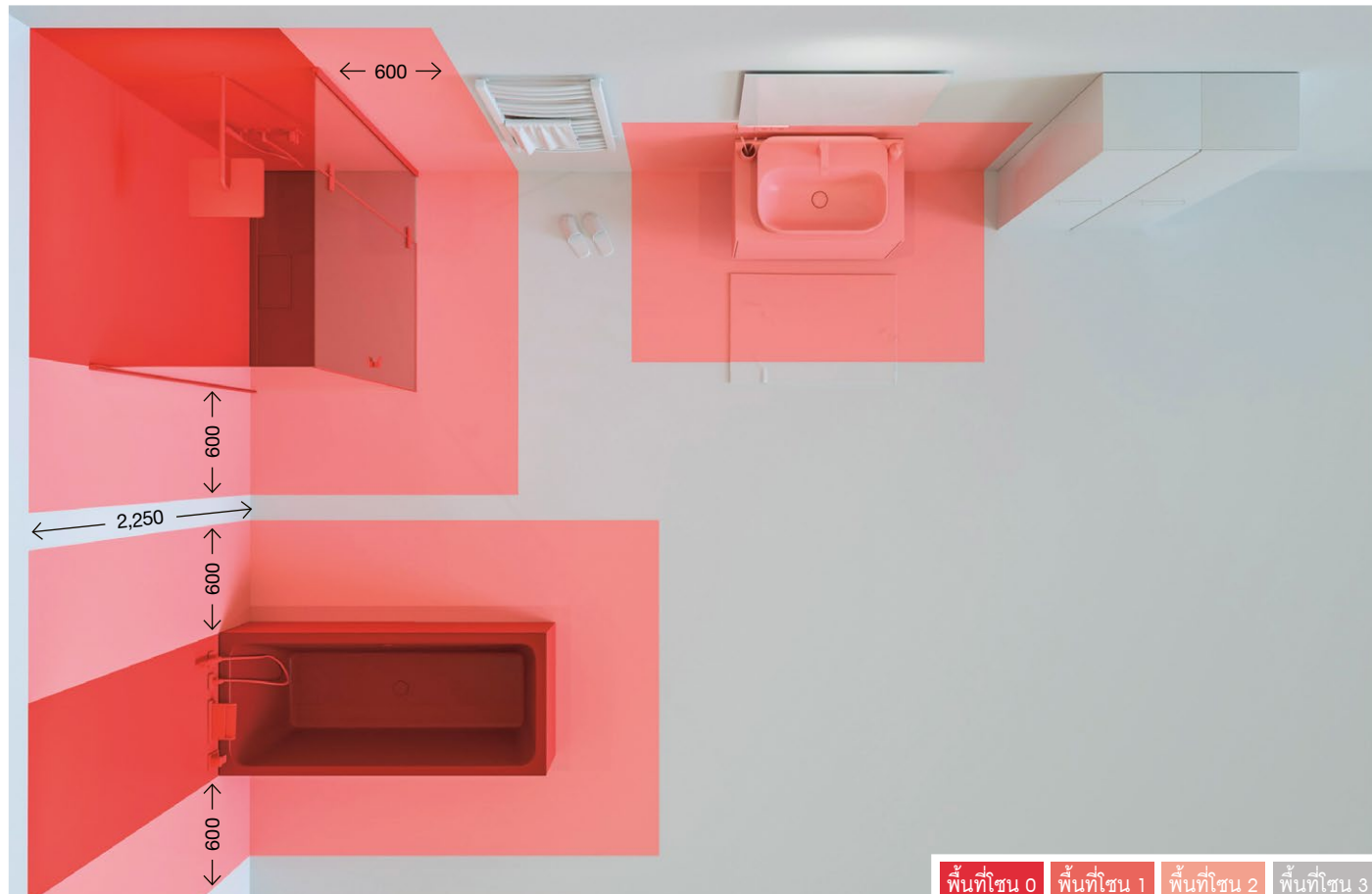
การจ่ายแรงดัน

- SELV มาตรฐานด้านความปลอดภัยสำหรับอุปกรณ์แรงดันไฟฟ้าพิเศษ
-  มาตรฐานสำหรับอุปกรณ์แสงสว่างใช้ภายนอกโดยไม่มีสิ่งปกคลุมเพิ่มเติม
-  มาตรฐานการป้องกันการลัดวงจรด้วย ไอโซเลชั่นช่วยป้องกัน

ข้อกำหนดในการติดตั้ง

หากมีการติดตั้งคอมไฟในท้องที่มีอ่างอาบน้ำ ฝักบัว หรืออ่างล้างหน้าต้องพิจารณาพื้นที่ติดตั้งและระดับการป้องกัน IP ตามที่ระบุไว้ด้านล่าง เพื่อให้เลือกใช้ผลิตภัณฑ์ได้อย่างเหมาะสมและปลอดภัย โดยต้องคำนึงถึง การป้องกันความชื้นและน้ำ

ทั้งในการเลือกและติดตั้งคอมไฟ เพื่อให้มั่นใจได้ว่าไม่มีความเสี่ยงจากกระแสไฟฟ้าในขณะที่ใช้งาน



Details and illustration based on VDE 0100-701. No liability accepted for correctness. Consultation of specialist literature or trained specialists advisable.

พื้นที่โซน 0 / ระดับการป้องกัน IPX7:

ภายในถาดอาบน้ำหรืออ่างอาบน้ำ ซึ่งจะมีน้ำขังเมื่อเปิดท่อน้ำทิ้ง ในกรณีนี้ อนุญาตให้ใช้เฉพาะระบบไฟฟ้าแรงดันต่ำ ที่ผ่านการรับรองมาตรฐาน IPX7 และ ได้รับการอนุมัติให้ติดตั้งภายในถาดหรืออ่างโดยเฉพาะผลิตภัณฑ์ประเภทนี้ ไม่มีแสดงในแคตตาล็อก ส่วนไดโรวอร์และจุดต่อสายไฟ สามารถติดตั้งได้เฉพาะใน โซน 3 เท่านั้น

พื้นที่โซน 1 / ระดับการป้องกันขั้นต่ำ IPX5:

ความสูง:
จากพื้นสำเร็จจนถึงระดับความสูง 2,250 มม. หรือถึงระดับจุดจ่ายน้ำ หากจุดนั้นอยู่สูงกว่า อนุญาตให้ใช้เฉพาะ ระบบไฟฟ้าแรงดันต่ำไม่เกิน 60 โวลต์ DC เท่านั้น

พื้นที่:

หากมีถาดหรืออ่างอาบน้ำ พื้นที่โซน 1 คือบริเวณ โดยตรงเหนือและใต้โซน 0 หากไม่มีถาดหรืออ่างอาบน้ำ พื้นที่โซน 1 คือบริเวณ รัศมี 1,200 มม. รอบจุดจ่ายน้ำในตำแหน่งปกติ หากมีผนังกันแบบเปิด ให้ถือว่า ขอบเขตคือระยะ 600 มม. จากผนังกัน (มุมที่หันเข้าหาจุดจ่ายน้ำ) รอบแนวผนังนั้น โซน 2 จะไม่มี ในกรณีที่ เป็นห้องอาบน้ำแบบไม่มีถาดไดโรวอร์และจุดต่อสายไฟ สามารถติดตั้งได้เฉพาะใน โซน 3 เท่านั้น

พื้นที่โซน 2 / ระดับการป้องกันขั้นต่ำ IPX4:

อยู่ต่อเนื่องจากโซน 1 ใช้กับบริเวณ รอบอ่างอาบน้ำหรือผนังกันของฝักบัว โดยมีความลึก 600 มม. และ ความสูง 2,250 มม. หรือจนถึงระดับจุดจ่ายน้ำ หากจุดนั้นอยู่สูงกว่า หากมีน้ำพุ่งแรงเช่นจากหัวฉีดน้ำสำหรับนวด จำเป็นต้องใช้ ระดับการป้องกัน IPX5 ขึ้นไป

หมายเหตุ:

ไดโรวอร์และจุดต่อสายไฟ สามารถติดตั้งได้เฉพาะใน โซน 3 เท่านั้น

พื้นที่โซน 3 / ระดับการป้องกัน IPX0:

ครอบคลุมทุกบริเวณที่ อยู่นอกโซน 0, 1 และ 2

อ่างล้างหน้า:

ในเยอรมนี ไม่มีมาตรฐานเฉพาะ สำหรับบริเวณรอบอ่างล้างหน้า เนื่องจากตั้งแต่ปี 1984 ห้องน้ำจะมี สวิตช์ป้องกันกระแสไฟรั่ว (RCD) ทำให้สามารถติดตั้งระบบไฟฟ้ารอบอ่างล้างหน้าได้ แต่หากห้องน้ำหรือห้องสุขา ไม่มีสวิตช์ป้องกันไฟรั่ว ควรปรึกษาช่างผู้เชี่ยวชาญ เพื่อความปลอดภัย

คำแนะนำเพิ่มเติม : แนวทางที่ปลอดภัยคือ พิจารณารัศมี 600 มม. รอบก๊อกน้ำ ให้เทียบเท่ากับ โซน 2

คำศัพท์เฉพาะทาง

Binning	ในกระบวนการผลิตอุตสาหกรรมชิป LED แต่ละชิปอาจมีความแตกต่างกันในด้านของ สี ความสว่าง และ แรงดันไฟฟ้าเพื่อให้ได้คุณภาพของแสงที่คงที่ มีระดับความสว่างเท่ากัน และให้สีของแสงที่สม่ำเสมอ จึงมีการคัดแยกชิป LED ตามค่าดังกล่าวออกเป็นกลุ่ม ๆ หรือที่เรียกว่า "Binning" ในขั้นตอนการผลิต Hafele Lighting เลือกใช้เฉพาะชิป LED ที่อยู่ในกลุ่มที่มีระดับความสว่างสูง เพื่อรับประกันประสิทธิภาพและคุณภาพของแสงที่ดีที่สุด
COB	เทคโนโลยีการจัดเรียงชิป LED จำนวนมากไว้บนแผงวงจรโดยตรง (Chip-on-Board) เพื่อให้ได้แสงสว่างสูง ความสว่างสม่ำเสมอ และมีความทนทาน
Colour rendering index CRI	ดัชนีความถูกต้องของสี เป็นค่าที่ใช้เปรียบเทียบความสามารถในการแสดงสีของแหล่งกำเนิดแสงที่มีอุณหภูมิสีเท่ากัน ยิ่งค่าดัชนีสูงเท่าใด แสงนั้นจะแสดงสีของวัตถุได้ถูกต้องและเป็นธรรมชาติมากขึ้น โดยค่าที่ 100 หมายถึงการแสดงสีที่ถูกต้องเทียบเท่ากับ แสงธรรมชาติ
Constant current technology	กระแสไฟฟ้าที่ไหลผ่าน ชิป LED แต่ละชิปจะมีค่าเท่ากัน ทำให้ความสว่างของทุกชิปมีความสม่ำเสมอ และช่วยป้องกันการลดลงของค่าความส่องสว่าง ซึ่งส่งผลให้สามารถเพิ่มความยาวของแถบไฟ (LED 3150 / 3151 / 3152 / 3153) ได้มากขึ้นโดยไม่สูญเสียประสิทธิภาพของแสง
Drop in luminous flux	ความสว่างของ ชิป LED บนแถบไฟ จะลดลงตามความยาวของแถบไฟ เนื่องจาก ความต้านทานของสายทองแดง ที่เพิ่มขึ้น ส่งผลให้ค่าความส่องสว่าง อาจลดลงได้ถึงประมาณ 30% จากจุดแรกถึงจุดสุดท้ายของแถบไฟ ซึ่งความแตกต่างนี้โดยทั่วไป มนุษย์จะมองเห็นได้ไม่ชัดเจน ดังนั้น Hafele Lighting จึงกำหนดความยาวสูงสุดของแถบไฟตามค่าการรับรู้อาการทางสายตา แม้สามารถต่อใช้งานแถบไฟให้ยาวกว่านี้ได้ แต่ความสว่างอาจลดลงอย่างเห็นได้ชัด ยกเว้น แถบไฟรุ่นที่ใช้เทคโนโลยี กระแสคงที่ (Constant Current Technology) เช่น LED 3150 / 3151 / 3152 / 3153 ซึ่งชิป LED จะให้ความสว่างเกือบเท่ากันตลอดแนวแถบไฟ
Energy efficiency class	การใช้พลังงานของแหล่งกำเนิดแสง จัดอยู่ใน ระดับประสิทธิภาพพลังงานตั้งแต่ระดับ A ถึง G ตามข้อกำหนดของ Regulation (EU) 2019 / 2015 โดยไม่ครอบคลุมถึงแหล่งกำเนิดแสงที่ไม่เป็นแสงสีขาว (เช่น RGB) และแหล่งกำเนิดแสงที่มีค่าความส่องสว่างต่ำกว่า 60 ลูเมน
Energy consumption	การใช้พลังงาน หมายถึง กำลังไฟฟ้าที่ผลิตกันที่ใช้ระหว่างการทำงาน โดยทั่วไประบุเป็นหน่วย วัตต์ ซึ่งเป็นเกณฑ์สำคัญในการประเมินประสิทธิภาพพลังงานของผลิตภัณฑ์ ตามข้อกำหนดของสหภาพยุโรป Regulation (EU) 2019 / 2015 ผู้ผลิตต้องลงทะเบียนผลิตภัณฑ์ในฐานข้อมูล EPREL (European Product Registry for Energy Labelling) และให้ข้อมูลรายละเอียดเกี่ยวกับ การใช้พลังงาน, ประสิทธิภาพการส่องสว่าง, อายุการใช้งาน, และ คุณสมบัติทางเทคนิคอื่น ๆ โดยระดับประสิทธิภาพพลังงานจะแสดงบน ฉลากพลังงานของสหภาพยุโรป ตั้งแต่ระดับ A (ประสิทธิภาพสูงสุด) ถึง G (ประสิทธิภาพต่ำสุด) สำหรับผลิตภัณฑ์บางประเภท Hafele ใช้แนวคิด การออกแบบเพื่อความยั่งยืน ที่สามารถถอดและเปลี่ยนแหล่งกำเนิดแสงได้โดยไม่ทำลายตัวโคมเมื่อเกิดการชำรุด จึงจัดอยู่ในประเภท "Surrounding Product" ซึ่ง ไม่จำเป็นต้องมีฉลากพลังงาน นอกจากนี้ โคมไฟที่มีค่าความส่องสว่างต่ำกว่า 60 ลูเมน จะได้รับการยกเว้นไม่ต้องลงทะเบียนในระบบดังกล่าวด้วย
Human Centric Lighting (day-dependent light colours)	แสงสว่างส่งผลต่อความเป็นอยู่ที่ดีและประสิทธิภาพการทำงานของผู้ใช้งาน หนึ่งในเป้าหมายสำคัญของการวางแผนระบบแสงสว่างคือการปรับความสว่าง และ อุณหภูมิสี ให้เหมาะสมกับความต้องการของมนุษย์ ซึ่งแนวคิดนี้เรียกว่า Human Centric Lighting (HCL) นอกจากการคำนึงถึงหน้าที่การใช้งานของพื้นที่แล้ว ช่วงเวลาที่ใช้งานในแต่ละวัน ก็เป็นปัจจัยสำคัญเช่นกัน โดยมีกฎทั่วไปดังนี้: <ul style="list-style-type: none"> • สำหรับ พื้นที่ทำงานหรือใช้งานในช่วงเช้า ควรใช้ แสงสีขาวเย็นที่สว่าง เพื่อช่วยเพิ่มสมาธิและประสิทธิภาพการทำงาน (เนื่องจากแสงประเภทนี้จะช่วยยับยั้งการผลิตฮอร์โมนเมลาโทนินในร่างกาย) • สำหรับ พื้นที่พักผ่อนหรือช่วงเวลากลางคืน ควรใช้ แสงสีขาวอบอุ่นที่สลัวลง เพื่อส่งเสริมความรู้สึกผ่อนคลายและช่วยให้ร่างกายเตรียมเข้าสู่การพักผ่อน ผลิตภัณฑ์ Hafele Lighting ที่ตอบโจทย์ระบบ Human Centric Lighting ได้แก่: <ul style="list-style-type: none"> • โคมไฟแบบ Tunable White ที่สามารถปรับอุณหภูมิสีของแสงได้ตามต้องการ • ระบบ Hafele Connect ที่ช่วยควบคุมสีของแสงแบบ Tunable White และตั้งค่าฉากแสงให้สัมพันธ์กับแสงธรรมชาติในแต่ละช่วงเวลา • รุ่น LED 3104 ที่ให้ทางเลือกทั้งแสง Warm White (2,200 K) และ Daylight White (6,500 K) เพื่อปรับให้เหมาะกับกิจกรรมและช่วงเวลาของวัน
Illuminance	ค่าความสว่างตกกระทบ (Illuminance) หมายถึงอัตราส่วนระหว่าง ฟลักซ์ส่องสว่าง (Luminous Flux, หน่วยเป็นลูเมน - lm) ต่อ พื้นที่ผิว (ตารางเมตร - m²) โดยมีหน่วยวัดเป็น ลักซ์ (lx) ใช้สำหรับวัดระดับความสว่างของพื้นที่ผิวที่ได้รับการส่องสว่าง
LED	ไดโอดเปล่งแสง คืออุปกรณ์สารกึ่งตัวนำ ที่สามารถเปล่งแสงได้เมื่อมีกระแสไฟฟ้าไหลผ่าน ภายในประกอบด้วย ผลึกคริสตัล ที่ติดตั้งบนฐานโลหะ และเคลือบด้วย ชั้นฟอสฟอรัส เพื่อแปลงแสงที่เกิดขึ้นให้กลายเป็น แสงสีขาว COB LED (Chip on Board LED) ให้ปริมาณแสงสว่างสูง โดยการติดตั้ง ชิป LED ขนาดเล็กหลายชิปไว้ใกล้กัน แล้วเคลือบด้วยชั้นฟอสฟอรัสเพื่อให้แสงกระจายสม่ำเสมอ COB LED มักถูกนำมาใช้ใน โคมไฟดาวน์ไลท์ (Point Light) หรือ ไฟเส้นตรง (Linear / Strip Light) เพื่อให้ได้แสงที่เข้มและกระจายอย่างมีประสิทธิภาพ
Life time	อายุการใช้งานระบุเป็นหน่วยชั่วโมงการทำงาน โดยอายุการใช้งานของผลิตภัณฑ์จะขึ้นอยู่กับอุณหภูมิขณะทำงาน - ยิ่งสภาพแวดล้อมมีอุณหภูมิสูง อายุการใช้งานของโคมไฟก็จะสั้นลงตามไปด้วยอัตราการเปลี่ยนทดแทน จะคำนวณจาก อายุการใช้งานรวมทั้งหมด เทียบกับ ชั่วโมงการใช้งานเฉลี่ยต่อปี ตารางต่อไปนี้สามารถใช้เป็นแนวทางในการวางแผน อายุการใช้งานที่ระบุหมายถึง ค่ามาตรฐาน L70 / B50 ซึ่งหมายความว่า เมื่อใช้งานครบตามเวลาที่กำหนด ความสว่างของโคมไฟจะลดลงเหลือ 70% ของค่าเริ่มต้น โดยประมาณ 50% ของชิป LED ทั้งหมดจะมีค่าความสว่างถึงจุดนั้น.

Indoor use	Annual operating time (EN 15193) hours	Renovation rate in years	Life time installation Hours
Office	2,500	20	50,000
Education	2,000	25	50,000
Hospital	5,000	10	50,000
Hotel	5,000	10	50,000
Restaurant	2,500	10	25,000
Shop	5,000	10	50,000

คำศัพท์เฉพาะทาง

Life time Lx/By

อายุการใช้งานของโคมไฟ ระบุเป็นหน่วย ชั่วโมง โดยใช้ตัวอักษร L และ B เป็นตัวกำหนดมาตรฐานการวัดคุณภาพของแสง

L หมายถึง ลัดส่วนของค่าความส่องสว่าง (Luminous Flux) เดิมที่ยังคงเหลืออยู่หลังจากใช้งานครบระยะเวลาที่กำหนด

B หมายถึง ร้อยละของโคมไฟที่มีค่าความส่องสว่างต่ำกว่าค่าที่กำหนดใน L (ไม่ได้หมายถึงโคมเสียทั้งหมดแต่มีความสว่างลดลงกว่ามาตรฐานที่ระบุ)

ตัวอย่างค่ามาตรฐาน L80 / B10 > 50,000 ชั่วโมง :

หมายความว่าหลังจากการใช้งานอย่างน้อย 50,000 ชั่วโมง โคมไฟยังคงให้แสงสว่างได้ 80% ของค่าความส่องสว่างเริ่มต้น และในโคมไฟจำนวน 100 ดวง จะมีประมาณ 10 ดวง (10%) ที่มีค่าความส่องสว่างต่ำกว่าระดับนี้

ดูรายละเอียดเพิ่มเติมได้ในบทที่ "เอฟเฟกต์แสงและเทคโนโลยีแสงสว่าง (Light Effects and Lighting Technology)"

Light colour and colour temperature

Light permeability

อัตราส่วนของแสงที่ผ่านได้เมื่อเทียบกับแสงที่ตกกระทบ (Light Transmission Ratio) ร้างโปร่งแสงในอุดมคติจะมีค่าการส่งผ่านแสงเท่ากับ 100%

Lumen

ดูหัวข้อ "ฟลักซ์ส่องสว่าง (Luminous Flux)"

Luminous efficiency

ประสิทธิภาพการส่องสว่าง (Luminous Efficacy) คืออัตราส่วนระหว่าง ฟลักซ์ส่องสว่าง (Flux) ต่อกำลังไฟฟ้าที่ใช้ (Wattage Absorbed) ใช้เป็นตัวชี้วัดประสิทธิภาพการทำงานของแหล่งกำเนิดแสง โดยมีหน่วยเป็นลูเมนต่อวัตต์ (lm/W)

Luminous flux

ฟลักซ์ส่องสว่าง (Luminous Flux) ระบุเป็นหน่วยลูเมน (lm) ใช้บ่งบอกถึงปริมาณแสงทั้งหมดที่แหล่งกำเนิดแสงปล่อยออกมา โดยค่าที่วัดได้อาจมีความคลาดเคลื่อนจากการวัดหรือกระบวนการผลิตได้ประมาณ $\pm 10\%$

Lux

ดูหัวข้อ "ค่าความสว่างตกกระทบ (Illuminance)"

Memory function

ฟังก์ชันหน่วยความจำระบบจะบันทึกสถานะล่าสุดของสวิตช์หรืออุปกรณ์จ่ายไฟ (เช่น เปิด/ปิด ระดับหรี่แสง และสีของแสง หากมี) ฟังก์ชัน "After Currentless" หมายถึง การที่ระบบสามารถจำสถานะการทำงานล่าสุดได้ แม้จะมีการตัดไฟจากกระแสหลักก่อนหน้านั้น เมื่อใช้งานร่วมกับ อุปกรณ์ Häfele Connect ผู้ใช้สามารถกำหนดได้ผ่านแอปพลิเคชันว่า เมื่อระบบกลับมาอีกครั้ง จะให้แต่ละช่องสัญญาณหรืออุปกรณ์ที่รองรับ Mesh Technology กลับไปอยู่ใน สถานะล่าสุดที่บันทึกไว้ หรือใน สถานะที่ผู้ใช้ตั้งค่าไว้ล่วงหน้า

Monochrome

Häfele Lighting นิยามว่า แสงสีขาวที่ปล่อยออกมาจาก LED แบบสีเดียว (single-colour LED) คือ แสงโมโนโครม ในทางฟิสิกส์ แสงสีขาวประกอบด้วยคลื่นแสงหลายความยาวคลื่น แต่สำหรับผู้มองเห็นจะเป็นแสงสีขาวเพียงสีเดียว แสงโมโนโครมประเภทนี้มีให้เลือกหลายโทนสี (หรืออุณหภูมิสี) ตั้งแต่ warm white ไปจนถึง daylight white นอกจากนี้ แสงสีเดียวอื่น ๆ เช่น สีแดง น้ำเงิน หรือเขียว ที่ปล่อยออกจาก LED เดียวกันก็เรียกว่า แสงโมโนโครม เช่นกัน โดยในทางฟิสิกส์จะประกอบด้วย ความยาวคลื่นเดียว หรือช่วงความยาวคลื่นที่แคบมาก

Refraction angle

มุมลำแสงที่ระบุ (หรือที่เรียกว่า มุมครึ่งค่า - Half-Value Angle) หมายถึง บริเวณในรูปทรงกรวยที่ค่าความส่องสว่าง อยู่ที่อย่างน้อย 50% ของค่าสูงสุด โดย ค่าความส่องสว่างสูงสุดจะอยู่ตรงกลางของกรวยแสง

RGB

RGB เป็นตัวย่อมาจาก Red (แดง), Green (เขียว) และ Blue (น้ำเงิน) โดยผ่านระบบ Häfele Connect สามารถผสมสีพื้นฐานทั้งสามนี้ให้เกิด เจดสีได้มากกว่า 16 ล้านสี

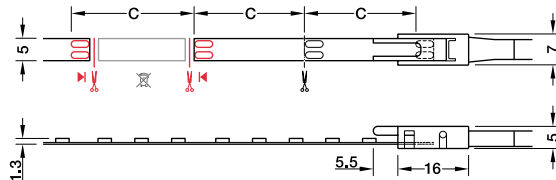
หมายเหตุ : หากเชื่อมต่อเพียงสายเดี่ยวของอะแดปเตอร์ RGB เข้ากับ ตัวกระจายสัญญาณแบบ 6 ช่อง (6-way distributor) ที่มีฟังก์ชันสวิตช์ แสงจะทำงานในโหมด โมโนโครม หรือแสงสีเดียว (เช่น แดง เขียว หรือ น้ำเงิน) ได้ โดย ไม่จำเป็นต้องใช้อุปกรณ์ Häfele Connect อื่นเพิ่มเติม นอกจากอะแดปเตอร์เท่านั้น

RoHS – Lead in products

ผลิตภัณฑ์ของ Häfele Lighting ปราศจากสารตะกั่ว และเป็นไปตามข้อกำหนดของ RoHS Directive ซึ่งเป็นส่วนหนึ่งของมาตรฐาน CE (CE conformity)

ผลิตภัณฑ์ทุกชิ้นของ Häfele Lighting ผ่านการรับรองมาตรฐาน CE ทุกรูปแบบ Häfele Lighting ไม่ได้ระบุสัญลักษณ์ CE ไว้ในแค็ตตาล็อกเนื่องจาก เฉพาะผลิตภัณฑ์ที่เป็นไปตามมาตรฐาน CE เท่านั้นที่สามารถจำหน่ายได้

Shortening or connecting LED strip lights



C = ความยาวที่ตัดได้
การเชื่อมต่อไฟเส้น LED (สีแดง)
ต้องมีด้านสัมผัสสองด้าน

Transmittance

ดูหัวข้อ Light Permeability (การส่งผ่านแสง)

Tunable white

แสง Tunable White จะผสมต่อเนื่องกันระหว่างแสงขาวสองแบบ (เช่น ขาวอบอุ่นและขาวกลางวัน) โดยใช้ระบบ Häfele Connect

หมายเหตุ : หากเชื่อมต่อสายเพียงเส้นเดียวของอะแดปเตอร์ Tunable White เข้ากับตัวจ่ายแบบ 6 ทางมาตรฐานที่มีฟังก์ชันสวิตช์ แสงจะสามารถทำงานเป็นแสงขาวเดี่ยว (เช่น ขาวอบอุ่นหรือขาวเย็น) ได้ โดยไม่จำเป็นต้องใช้องค์ประกอบ Häfele Connect อื่นเพิ่มเติม นอกจากอะแดปเตอร์

Visual strip light length

ดูหัวข้อ การลดลงของฟลักซ์ส่องสว่าง (Drop in luminous flux)

คำถามทางเทคนิค | คำถามที่พบบ่อย

อายุการใช้งานของผลิตภัณฑ์เมื่อเปิดใช้งานอย่างต่อเนื่องตลอดเวลาคือเท่าไร

ไดรเวอร์ Håfele Lighting (รุ่น Pro) มีอายุการใช้งานมากกว่า 50,000 ชั่วโมง ที่อุณหภูมิโดยรอบสูงสุด 40°C / 45°C ส่วนไดรเวอร์แบบเสียบปลั๊กและไดรเวอร์ที่มีฟังก์ชันสวิตช์มีอายุการใช้งาน 30,000 ชั่วโมง ที่อุณหภูมิโดยรอบสูงสุด 40°C ควรติดตั้งในตำแหน่งที่มีการระบายอากาศเพียงพอ หากอุณหภูมิโดยรอบต่ำกว่า 30°C อายุการใช้งานจะเพิ่มขึ้นเป็นสองเท่า แลмп LED Håfele Lighting (รุ่น Pro) มีอายุการใช้งานมากกว่า 50,000 ชั่วโมง ที่อุณหภูมิโดยรอบสูงสุด 45°C และแนะนำให้ใช้โปรไฟล์อะลูมิเนียมช่วยระบายความร้อนเมื่อใช้กำลังเกิน 9.6 W/เมตร.

Illuminating.

ค่าความสว่างของแถบไฟ LED วัดในกรณีที่มีหรือไม่มีแผ่นกระจายแสง (diffuser)

ค่าความสว่าง จะถูกวัดจากแถบไฟ LED โดยไม่มีแผ่นกระจายแสง และไม่มีโปรไฟล์ เนื่องจากโปรไฟล์และแผ่นกระจายแสงสามารถเลือกใช้ร่วมกับแถบไฟได้หลายรูปแบบ โดยค่าการส่งผ่านแสงของแผ่นกระจายแสงจะถูกระบุไว้เพื่อใช้ประเมินการสูญเสียแสง หากไม่แน่ใจ แนะนำให้ทำการทดสอบเพื่อดูผลลัพธ์ของแสงร่วมกับโปรไฟล์ก่อนใช้งานจริง

แถบไฟ LED แบบใดที่เหมาะสมสำหรับการใช้งานต่อเนื่องตลอด 24 ชั่วโมงทุกวัน

เพื่อให้มั่นใจได้ถึงการใช้งานที่ยาวนานและมีเสถียรภาพโดยไม่เกิดปัญหา แนะนำให้ใช้แถบไฟ LED รุ่น Pro (โดยเฉพาะรุ่นที่ใช้เทคโนโลยีกระแสคงที่) ติดตั้งร่วมกับ โปรไฟล์อะลูมิเนียม

ฉันจะทำความสะอาดแถบไฟ LED ได้อย่างไร

แถบไฟ LED ที่ไม่มีปลอกซิลิโคนไม่จำเป็นต้องทำความสะอาด ส่วนแถบไฟที่มีปลอกซิลิโคนสามารถทำความสะอาดได้ด้วยผ้าไมโครไฟเบอร์ชุบน้ำหมาด ๆ ห้ามใช้สารขัดหรือสารทำความสะอาดที่มีฤทธิ์รุนแรง เพราะอาจทำลายพื้นผิวและทำให้หลอด LED เสียหายได้

สามารถใช้แถบไฟ LED แบบยึดหยุ่น ติดตั้งไว้ด้านหลังแผ่นอะคริลิกได้หรือไม่

สามารถทำได้ แต่ควรทราบว่าแผ่นอะคริลิกจะขยายความแตกต่างของสีเล็กน้อยระหว่างชิป LED (จากกระบวนการ Binning) ให้เห็นชัดเจนยิ่งขึ้น ทำให้ความคลาดเคลื่อนของสีเพียงเล็กน้อยดูเด่นชัดมากขึ้น

จะรับประกันความคงที่ของสีแสงจากหลอดไฟได้อย่างไร

Håfele Lighting ให้ความสำคัญอย่างยิ่งในการคัดเลือกวัสดุ โดยใช้ชิป LED คุณภาพสูงและมีอายุการใช้งานยาวนานจากแบรนด์ Cree และ Lumileds ในผลิตภัณฑ์แถบไฟ LED ส่วนใหญ่ของ Håfele การกำหนดมาตรฐานคุณภาพที่เข้มงวดช่วยให้มั่นใจได้ถึงทั้งค่าฟลักซ์ส่องสว่างแรงดันไฟฟ้า และความคงที่ของสีแสง เพื่อให้ได้สีแสงที่สม่ำเสมอแม้ในการสั่งซื้อเพิ่มเติมภายหลัง

สามารถใช้โคมไฟของ Håfele Lighting ในรถคาราวาน / เรือ / รถยนต์ได้หรือไม่

ในระบบไฟฟ้าของรถคาราวาน เรือ หรือรถยนต์ อาจเกิดความผันผวนของแรงดันไฟฟ้าได้ ผลิตภัณฑ์ของ Håfele Lighting ถูกออกแบบให้รองรับความคลาดเคลื่อนของแรงดันไฟฟ้า $\pm 5\%$ จากแรงดันไฟฟ้ามาตรฐาน 12V หรือ 24V หากเกิดแรงดันไฟฟ้าที่สูงกว่านี้เป็นระยะเวลานานหรือแม้เพียงช่วงสั้น ๆ ควรติดตั้ง อุปกรณ์ปรับแรงดันหรือตัวกรองแรงดันไฟฟ้า เพิ่มเติม เพื่อป้องกันความร้อนสูงเกินไปหรือความเสียหายของโคมไฟ

แถบไฟ LED แบบควบคุมกระแสคงที่ จากผลิตภัณฑ์ของ Håfele สามารถใช้งานได้โดยไม่ต้องใช้ตัวปรับแรงดันเพิ่มเติม ทั้งนี้ควรปฏิบัติตามข้อกำหนดด้านความเข้ากันได้ทางแม่เหล็กไฟฟ้า (EMC) ตามระเบียบข้อที่ 10 ของคณะกรรมการการเศรษฐกิจแห่งสหประชาชาติ (UN/ECE R10) ระหว่างการติดตั้งด้วย

โคมไฟของ Håfele Lighting เหมาะสำหรับการใช้งานในพิพิธภัณฑ์หรือไม่

ได้ เหมาะสมอย่างยิ่ง เนื่องจากปัจจุบันพิพิธภัณฑ์ส่วนใหญ่เลือกใช้ไฟ LED สำหรับการติดตั้งใหม่โดยมีข้อดี คือไม่มีการปล่อยรังสีอัลตราไวโอเล็ต (UV) และมี การแผ่รังสีอินฟราเรด (IR) หรือความร้อนในระดับต่ำมาก ช่วยปกป้องวัตถุจัดแสดงจากความเสียหายที่เกิดจากแสงได้อย่างมีประสิทธิภาพ

สามารถใช้โคมไฟของ Håfele Lighting ในห้องขานาและห้องน้ำได้หรือไม่

ได้ สามารถใช้ได้กับโคมไฟที่มีระดับการป้องกันอย่างน้อย IP44 (แนะนำให้ใช้ IP67 เพื่อความปลอดภัยสูงสุด) ซึ่งเพียงพอสำหรับการใช้งานส่วนใหญ่ แถบไฟ LED แบบซิลิโคน ก็มีระดับการป้องกัน IP44 เช่นกัน อย่างไรก็ตาม ต้องมั่นใจว่า ตัวไดรเวอร์และสายไฟหลักอยู่ในบริเวณที่แห้ง และต้องตรวจสอบไม่ให้เกิน อุณหภูมิโดยรอบสูงสุดที่กำหนดไว้

Controlling wired.

จะหลีกเลี่ยงการทำงานผิดพลาดของสวิตช์เซนเซอร์ได้อย่างไร

ตรวจสอบให้แน่ใจว่าสวิตช์ถูกติดตั้งอย่างถูกต้อง

สามารถใช้งานโคมไฟของ Håfele Lighting ร่วมกับสวิตช์หลายตัวได้หรือไม่

ได้ สามารถทำได้โดยใช้ กล้องมัลติสวิตช์ ซึ่งสามารถเชื่อมต่อสวิตช์ได้สูงสุด 3 ตัว

สามารถเชื่อมต่อ กล้องมัลติสวิตช์ กล้องมัลติไดรเวอร์ และ ตัวกระจายสัญญาณ 3 ทางที่มีฟังก์ชันสวิตช์ ต่อกันแบบอนุกรมหลายครั้งได้หรือไม่

ไม่ได้ เพราะสัญญาณจะไม่สามารถส่งผ่านได้อย่างถูกต้อง

คำถามทางเทคนิค | คำถามที่พบบ่อย

Controlling wireless.

Häfele Connect สามารถใช้งานร่วมกับรุ่น Loox ก่อนหน้าได้หรือไม่	ได้ สามารถใช้งานร่วมกันได้โดยใช้ อะแดปเตอร์ที่เหมาะสม สามารถดูข้อมูลเพิ่มเติมได้ในหัวข้อ "Help & User Manual" ของแอป Connect Mesh
EasyPairing คืออะไร	โหมดการทำงานนี้ ไม่ต้องใช้แอป แต่ยังสามารถใช้งานฟังก์ชันพื้นฐานของการเชื่อมต่อได้ ได้แก่ การ จับคู่และควบคุมด้วยเซนเซอร์ โดยไม่ต้องใช้แอป โคมไฟทั้งหมดจะอยู่ใน กลุ่มเดียวกัน สามารถควบคุมได้ทั้ง เปิด/ปิด, ทรีแสง, และสีของแสง เหมาะอย่างยิ่งสำหรับ เฟอร์นิเจอร์ชิ้นเดียว, การควบคุมแสงแบบง่าย, และ โซลูชันสแตนด์อโลน
ความปลอดภัยของการเชื่อมต่อ Bluetooth® ในเครือข่าย Connect Mesh	ทุกแพ็คเกจข้อมูลในระบบ Mesh ถูกเข้ารหัสเพื่อปกป้องตัวตนของผู้ใช้ แพ็คเกจข้อมูลจะไม่เก็บค่าเช่น ที่อยู่ต้นทางและปลายทาง
สามารถสำรองเครือข่ายได้หรือไม่	สามารถทำได้และแนะนำให้สำรองเครือข่ายสามารถสำรองได้ผ่านฟังก์ชัน Export ในแอป Connect Mesh ข้อมูลเพิ่มเติมดูได้จาก คู่มือการใช้งานหรือ Help ในแอป
สามารถแชร์เครือข่ายกับผู้อื่นได้หรือไม่	ทำได้ โดยใช้ฟังก์ชัน Export / Import ในแอป Connect Mesh ข้อมูลเพิ่มเติมดูได้จาก คู่มือการใช้งานหรือ Help ในแอป
สามารถปิด Light Scene ได้หรือไม่	Light Scene คือสถานะแสงที่กำหนดไว้ ดังนั้น Light Scene จะถูก เปิดใช้งานเสมอหากต้องการปิดแสง ต้องตั้งสถานะใหม่ที่มี โคมไฟ ปิด ผ่านการตั้งค่าขึ้นหรือการสลับกลุ่ม
อายุการใช้งานของแบตเตอรี่	อยู่ระหว่าง 3–5 ปี ขึ้นอยู่กับจำนวนรอบการใช้งาน
สามารถตรวจสอบสถานะแบตเตอรี่ได้ที่ไหน	สถานะแบตเตอรี่แสดงในแอป Connect Mesh
การรีเซ็ตอุปกรณ์ Häfele Connect ทำอย่างไร	มี 2 วิธีหลัก: 1. รีเซ็ตผ่าน Connect Mesh App (แนะนำ) - เลือกและรีเซ็ตอุปกรณ์ในแอปข้อควรระวัง: การรีเซ็ตจะลบค่าการตั้งค่าทั้งหมด เช่น การจัดกลุ่ม ขึ้น ตารางเวลา ฯลฯ 2. รีเซ็ตด้วยปุ่มรีเซ็ตบนอุปกรณ์ - กดปุ่มนานกว่า 8 วินาที หรือใช้แม่เหล็กกับโคมไฟติดเพดานอุปกรณ์ที่ไม่มีปุ่มรีเซ็ต ต้องรีเซ็ตผ่านแอปในโหมด Expert
อินเทอร์เฟซ 2 ช่องทางสามารถหรี่ไฟได้หรือไม่	อินเทอร์เฟซนี้รองรับเฉพาะฟังก์ชัน เปิด/ปิด เท่านั้น
ไฟ LED บน Connect Mesh 6-way Distributor ติดค้างเพราะอะไร	แสดงว่าอุปกรณ์ จับคู่เรียบร้อยแล้วและพร้อมใช้งาน
ไฟ LED บน Connect Mesh 6-way Distributor กระพริบเพราะอะไร	แสดงว่าอุปกรณ์ พร้อมสำหรับการจับคู่
ระยะการทำงานของเครือข่าย Connect Mesh คือเท่าไร	<ul style="list-style-type: none"> ระยะที่ระบุคือ ในกรณีที่มองเห็นโดยตรงไม่มีสิ่งกีดขวาง อุปสรรคหรือคลื่นรบกวนไฟฟ้าแม่เหล็กสามารถลดระยะได้ ระยะ Bluetooth® ของอุปกรณ์เดี่ยวสูงสุด 10 เมตร ระยะจะเพิ่มขึ้นมากในการเชื่อมต่อเครือข่าย Mesh เพราะอุปกรณ์แต่ละตัว สื่อสารกันหลายทิศทาง

Controlling.

สามารถต่อฟ่วงตัวจ่ายไฟหลายตัวได้หรือไม่

ได้ โดยมีข้อจำกัดเพียงแค่ว่า กำลังวัตต์ของตัวไดรเวอร์ และความยาวสายสูงสุดไม่เกิน 10 เมตร จากไดรเวอร์ถึงโคมไฟ

สามารถต่อฟ่วง 6-way ที่มีฟังก์ชันสวิตช์หลายตัวได้หรือไม่

ได้ และยังสามารถใช้สวิตช์ร่วมกันได้ด้วย สวิตช์ของกล่องแรกจะทำหน้าที่เป็น สวิตช์หลัก

หมายเหตุ:

เฉพาะ ระดับสุดท้ายของการต่อฟ่วง เท่านั้นที่สามารถมี ดิมเมอร์ ได้ ถ้ามีดิมเมอร์ในระดับที่สูงกว่า จะทำให้การสวิตช์ของ Distributor ถัดไป ทำงานผิดปกติ

สายไฟระหว่างไดรเวอร์และอุปกรณ์สามารถยาวได้เท่าไร

ความยาวสูงสุดจาก Driver ถึงอุปกรณ์ คือ 10 เมตร

หมายเหตุ:

หากใช้สายยาวและโหลดมาก (เช่น ไฟเส้นยาว) จะเกิด แรงดันไฟตก ในสายไฟ ซึ่งทำให้ ความสว่างของแสงลดลงอย่างเห็นได้ชัด ค่าความสว่างที่ระบุไว้ในสเปกของโคมไฟนั้น คำนวณจาก แรงดันไฟฟ้าเต็มพิกัดของไดรเวอร์

สามารถใช้ไฟ 12V และ 24V ร่วมกันใน Distributor เดียวได้หรือไม่

ไม่ได้ ยกเว้นกรณีที่มีการใช้ ตัวแปลงแรงดัน ที่เหมาะสม

AWG ในสเปกของสายไฟหมายถึงอะไร

AWG (American Wire Gauge) คือระบบรหัสมาตรฐานของอเมริกาสำหรับ ขนาดเส้นผ่านศูนย์กลางของสายไฟใช้เพื่อระบุหน้าตัดของสายไฟ ทั้งแบบเส้นเดี่ยวหรือแบบฝอย

ความสามารถในการรับกระแสไฟของสาย คืออะไร

Häfele Lighting กำหนดความสามารถในการรับกระแสและกำลังไฟสูงสุดที่อุณหภูมิแวดล้อมไม่เกิน 45°C (รายละเอียดค่ากระแสและวัตต์จะระบุไว้ในตารางข้อมูลทางเทคนิคของผลิตภัณฑ์)

Type of cable	24 AWG	22 AWG	20 AWG	18 AWG
Cable cross section	0.21 mm ²	0.33 mm ²	0.518 mm ²	0.823 mm ²
Current carrying capacity	1.5 A	2.5 A	3.5 A	5.0 A
Voltage	24 V	24 V	24 V	24 V
Wattage	36 W	60 W	84 W	120 W

ชนิดของสายเคเบิลจะถูกพิมพ์ระบุไว้บนปลอกหุ้มสาย

Supplying.

ฉันสามารถใช้ไดรเวอร์จากผู้ผลิตรายอื่นได้หรือไม่

เพื่อให้มั่นใจในเรื่อง ความปลอดภัยและการทำงานที่ถูกต้องของระบบ ควรใช้เฉพาะ ไดรเวอร์ Häfele Lighting หรือ ไดรเวอร์ที่ได้รับการรับรองอย่างเป็นทางการจาก Häfele Lighting เท่านั้น

หากระบบถูกติดตั้งโดย ช่างไฟฟ้าที่มีคุณสมบัติ อุปกรณ์ของ Häfele Lighting สามารถเชื่อมต่อและทำงานร่วมกับระบบไฟฟ้าที่มีอยู่ในสถานที่ได้ อย่างไรก็ตาม Häfele ขอแนะนำให้ งานติดตั้งดังกล่าวต้องดำเนินการโดยช่างไฟฟ้าที่ได้รับอนุญาตเท่านั้น

ทำไมต้องเสียบไฟเข้าโคมก่อน จึงค่อยต่อไดรเวอร์เข้ากับไฟบ้าน

หากต่อไดรเวอร์เข้ากับไฟบ้านก่อน จะมีแรงดันไฟออกที่ด้านขาออก ซึ่งอาจทำให้เกิด แรงดันเกิน และทำให้ โคมไฟเสียหายเมื่อต่อเข้าที่หลังได้

ทำไมไฟ LED ของฉันกระพริบ

อาการกระพริบเป็นสัญญาณของ การใช้งานเกินกำลัง แนวทางแก้ไขคือ ใช้ ไดรเวอร์ที่มีกำลังสูงกว่า, หรือลดจำนวนอุปกรณ์ไฟฟ้าที่ต่ออยู่ในวงจร

จะทำช่อง service ในตู้ได้อย่างไร

ติดตั้งไดรเวอร์ / ดิสทริบิวเตอร์ ไว้ที่ฐานของเพอร์นิเจอร์ (Plinth) หรือ ด้านบนของตู้ (เหนือฝ้าตู้)

โดยให้มีช่องเปิดพร้อมฝาครอบถอดได้เพื่อการตรวจเช็คง่าย เมื่อต้องตรวจสอบเพียงถอดแผ่นชั้นครอบออก ก็สามารถเข้าถึงอุปกรณ์ได้ทันที

Accessories.

มีตัวเลือกในการขยายระบบแบบใดบ้าง

ระบบไฟ Häfele Lighting สามารถขยายเพิ่มเติมได้ด้วยสถานีชาร์จ (Charging Stations) ทั้งแบบ USB และแบบชาร์จไร้สาย (Inductive Charging)

Service+



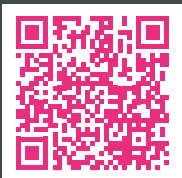
ด้วย Service+ สู่โซลูชันระบบแสงสว่างที่สมบูรณ์แบบ -
ครบวงจร ตอบโจทย์เฉพาะบุคคล และเป็นมืออาชีพ.

ด้วย Service+ เรามอบบริการแบบครบวงจรและการสนับสนุนการวางแผนที่ตรงจุดสำหรับโครงการแสงสว่างของคุณผู้เชี่ยวชาญของเราจะร่วมมือกับคุณเพื่อพัฒนา ข้อเสนอระบบไฟที่ออกแบบเฉพาะ ให้เหมาะสมอย่างลงตัวกับสภาพพื้นที่ การตกแต่งภายใน และสถาปัตยกรรม การวางแผนในรูปแบบ 3D ที่เสร็จสมบูรณ์ช่วยให้คุณมองเห็นภาพรวมของโครงการได้ชัดเจน และช่วยสนับสนุนการให้คำปรึกษาลูกค้าได้อย่างมีประสิทธิภาพ

บริการ Service+ ของเรามีมากกว่าการวางแผนทั่วไป คุณจะได้รับประโยชน์จากการวางแผนระบบและการติดตั้ง การบริการด้านเทคนิค และชุดอุปกรณ์ พร้อมทีมงานที่ช่วยให้การดำเนินโครงการของคุณง่ายและรวดเร็วยิ่งขึ้น นอกจากนี้ ใน Häfele Lighting Academy เรายังมอบความรู้ที่มีคุณค่าเกี่ยวกับแสงสว่าง เทคโนโลยี และการใช้งานจริง - อย่างกระชับ ครอบคลุม และมาจากประสบการณ์ตรงในภาคสนาม

Further information can be found at:

The Plus Services | <https://www.hafele.com.de/en/info/service/plus-services/169574/>



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สงวนลิขสิทธิ์

แคตตาล็อกเล่มนี้สงวนสิทธิ์ในการทำงานเป็นคู่มือเลือกซื้อผลิตภัณฑ์เท่านั้น และถือเป็นสมบัติของบริษัทเฮเฟลโดยสมบูรณ์

การผลิตลอกเลียนแบบทั้งหมดหรือส่วนหนึ่งส่วนใด รวมทั้งการลอกเลียนแบบภาพหรือรูปแบบการจัดวางถือเป็นการละเมิดลิขสิทธิ์

คำบรรยายทางเทคนิคและขนาดของผลิตภัณฑ์ รวมถึงภาพและแบบร่างที่ปรากฏภายในไม่ถือเป็นข้อมูลมัดทางกฎหมายแต่อย่างใด ทางบริษัทฯ ขอสงวนสิทธิ์ในการปรับเปลี่ยนงานออกแบบในภายหลัง ขนาดของผลิตภัณฑ์ทั้งหมดมีหน่วยเป็นมิลลิเมตร ยกเว้นในกรณีที่จะระบุเป็นหน่วยอื่น

ทั้งนี้ ทางบริษัทฯ จะไม่ขอรับผิดชอบต่อความผิดพลาดใดๆ ที่อาจเกิดขึ้นระหว่างขั้นตอนการผลิตแคตตาล็อก

การจัดส่งสินค้าจะเป็นไปตามเงื่อนไขการขายที่ระบุโดยบริษัทเฮเฟล

มกราคม 2569

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