

TuneLight 3340

LED lighting system for all TL Decorative Moldings, dimmable, infinitely variable cold white to warm white, low power consumption, high light yield, can be operated via remote control



Field of application

For unique installation of a particularly high-quality, flexible LED lighting technology in conjunction with the TL Decorative Moldings in interiors. For a variety of applications on wall and ceiling areas, in e.g. residential, business, and prestigious rooms.

Properties

- Brightness can be adjusted = dimmable
- Flexible color shades from cold white to warm white (3,000–6,000 Kelvin)
- Warm white = 590 lm/meter; cold white = 670 lm/meter
- All functions can be operated via remote control
- LED strips divisible every 50 mm
- Durable 24 volt system
- With particularly high light yield (up to 19.2 Watt/m)
- 120 LED/m for notably uniform illumination
- Very high adaptability to individual room dimensions

System components

TuneLight Flexible LED Circuit Board

Ord. No. 3340.0400.0000

Flexible LED Circuit Board length 400 cm

- Can be used in entire lengths (400 cm) or shortened as required in 50 mm increments
- With a reverse polarity protected plug-in connection
- Silicone-coated LED for practice-oriented use
- Protection class IP60

Ord. No. 3340.0500.0000

Flexible LED Circuit Board length 500 cm

- Can be used in full lengths (500 cm) for power supply from one side or divided into two parts each with a plug-in connection
- With two reverse polarity protected plug-in connections protected against polarity reversal
- Silicone-coated LED for practice-oriented use
- Protection class IP60

TuneLight Wireless Remote Control

Order no.: 3340.0001.0000

Wireless Remote Control for operating all the TuneLight Lighting systems. One Wireless Remote Control can be coupled to a maximum of four System Controllers. As a result, larger light installations in one room can be operated synchronously. Furthermore, the Wireless Remote Control provides the option of saving two desired settings from the combination of brightness and light color. Then you can easily switch between your favorite ambiances at the touch of a button.

- Controlling the TuneLight Flexible LED Circuit Boards via the TuneLight System Controller
- Easy handling
- A range of up to 15 m, line-of-sight connection
- Two memory buttons
- Four permanently saved dimming settings (25, 50, 75, and 100%)
- Operation with 3 x AAA batteries (not included in the scope of supply)

TuneLight System Controller

Order no.: 3340.0000.0100

With the System Controller (100 W), the TuneLight Lighting System can be operated with an overall length of max. 5 m of Flexible LED Circuit Board. The System Controller is already equipped with a wireless controller that can be programmed to the wireless remote control, which is available separately.

- For supplying power to (power supply and control (wireless controller) the TuneLight Flexible LED Circuit Boards
- Pre-wired components for plug-and-play installation
- Incl. 3 m cable and power plug
- Power supply format: 181 x 60 x 31 mm
- Wireless controller format: 145 x 47 x 16 mm
- 100 W output
- 24 V DC secondary voltage
- A secondary connection with reverse polarity protected roundplugs

Order no.: 3340.0000.0200

Using the System Controller (200 W), two Flexible LED Circuit Boards with a individual length of up to 5 m each can be operated.

- For supplying power to (power supply and control (wireless controller) the TuneLight Flexible LED Circuit Boards
- Pre-wired components for plug-and-play installation
- Incl. 3 m cable and power plug
- Power supply format: 195 x 67 x 31 mm
- Wireless controller format: 145 x 47 x 16 mm
- 200 W output
- 24 V DC secondary voltage
- 2x secondary connections with reverse polarity protected round plugs

TuneLight Power Cable

Order no.: 3340.0300.0001

The TuneLight Power Cable (300 cm) serves as an extension between the System Controller and Flexible LED Circuit Board, e.g., to bridge room heights.

- With reverse polarity protected round plugs and coupling
- Plug-in connection with cable stress relief
- Also suitable for mounting under render

Order no.: 3340.0500.0001

The TuneLight cable (500 cm) serves as an extension between the System Controller and Flexible LED Circuit Board, e.g., to bridge room heights, or in conjunction with the 200 W System Controller, in order to provide a current supply for a second LED section.

- With reverse polarity protected round plugs and coupling
- Plug-in connection with cable stress relief
- Also suitable for mounting under render

System components

TuneLight distributor

Order no.: 3340.0002.0000

The TuneLight distributor, 19 cm, is used to divide the output of the TuneLight System Controller, in order to branch in two installation directions with short Flexible LED Circuit Boards. Even with the use of the distributor, a max. of 5 m of Flexible LED Circuit Boards may be connected to one output of the System Controller. Possible divisions of the Flexible LED Circuit Board when using the distributor – e.g.: 4 m and 1 m, 3 m and 2 m or 2.5 and 2.5 m

Premise: In total, a max. of 5 m of Flexible LED Circuit Boards can be connected.

- With reverse polarity protected round plugs and coupling
- Plug-in connection with cable stress relief

TuneLight Aluminum Profile

Order no.: 3340.0200.0002

TuneLight Aluminum Profile with cover for safe and straight-lined mounting of the Flexible LED Circuit Boards in the TL Decorative Moldings.

- The perfect basis for straight-lined gluing of Flexible LED Circuit Boards
- Shining through the TL Decorative Moldings is reliably prevented
- Perfect heat dissipation for durability and color-stable illumination of the Flexible LED Circuit Boards
- Delivery incl. precise-fitting plastic cover to protect the Flexible LED Circuit Boards
- The opal plastic cover ensures particularly uniform light scattering
- Aluminum profile = width 18 mm, height 12 mm
- Length: 200 cm each
- Gluing with Decorative Molding Adhesive 3041 (in the TL Decorative Molding or alternatively to wall/ceiling)

System installation

Planning the lighting installation

Before implementing the work, the installation and placement of the system components is to be planned in detail using the following parameters for the individual room situation:

With an output of 19.2 W/m, with the 100 W System Controller, max. 5 m of LED Strip can be operated and with the 200 W System Controller, max. 2 x 5 m LED Strips can be operated. The maximum length of the 220 volt power cable to the System Controller is 3 meters. The 24 volt power cable between the System Controller and the Flexible LED Circuit Board must not exceed a maximum of 10 m in length.

The lighting system should ideally always be installed with its origin in the corner of the room, so that the Flexible LED Circuit Board does not have to be installed across the corner. Installing the Flexible LED Circuit Board in the corner is possible if the aluminum strips are not mounted edge to edge. Because the Flexible LED Circuit Board has to be “bent” in this configuration, this type of installation is not recommended. As far as possible, all corners of a room should be designed in the same manner for uniform illumination.

The System Controller (power supply unit incl. controller) should be installed such that is easy to access (e.g., with a inspection flap in the ceiling or skirting area). Where appropriate, mounting an additional electrical socket is practical. The low-voltage cables, including the connectors, can also be installed under render.

TL Decorative Moldings 3361, 3362, 3373, 3380, 3381, 3382 and 3383 are ideally suited for indirect lighting with illumination of the ceiling of the room.

Planning the lighting installation

To plan the installation height of the Decorative Moldings or the distance to the ceiling, trying out the right installation height and illumination on site is recommended, using the Presentation Case. Note that the illumination angle changes when the Flexible LED Circuit Board is installed on the front or rear edge of the Decorative molding. For installation within an object, the placement in the Decorative Molding should always be identical.

The maximum number of System Controllers that are to be operated in parallel with the Wireless Remote Control is limited to four System Controllers. To operate properly, the System Controllers must be within the wireless range of remote control. The System Controller should not be covered with metallic inspection flaps. The operation of the wireless remote control can be negatively affected by doing so.

Ambient temperature

The LED lighting system may only be operated in ambient temperature ranges from -10°C to +40°C.

Packaging/transport and storage

All system components must be supplied by a system manufacturer. For the products supplied, an receiving inspection must be performed at the construction site. All components are to be stored in a cool, dry place, and protected against damage.

Installation

Prior to installation, the function of all LEDs on a Flexible LED Circuit Board is to be checked, including the color change function. To do so, fully roll out the Flexible LED Circuit Board and, for testing purposes, connect to the system components and perform the test. For further installation, the gluing of the Decorative Moldings must be complete. Follow the instructions in the "Decorative Moldings 3040" Data Sheet.

The Flexible LED Circuit Boards and aluminum profiles are installed in stages. To do this, measure the length of the lighting installation and prepare the Flexible LED Circuit Boards and aluminum profiles to fit this length. Glue in the aluminum profiles without cover, starting from the power supply connection side, using Decorative Molding Adhesive 3041 in the decorative profile. Glue the Flexible LED Circuit Boards into the aluminum profiles (approx. 3 adhesive bonding points per m.) Then clip the plastic cover onto the aluminum profiles. Do not apply too much pressure to the Decorative Molding. The LED Stripes can be divided every 50 mm. This is also to be considered with the alignment, in order to center the maximum light area on the wall surface. Do not use miter joints in corner areas, so that the power supply can be laid over the open end of the aluminum profile. Connect the LED Strips to the installed cable using the plug-in connection and test the full functional range of the lighting – incl. color changes and dimming. During the subsequent coating work, it is recommended to mask the plastic cover of the aluminum profiles with e.g. 3M Super Painters masking tape, gold 244 (Ord. No. 1795), to prevent soiling.

Indirect illumination

To implement indirect illumination, the aluminum profiles can also be directly glued to the wall or ceiling using the Decorative Profile Adhesive 3041. This type of installation is particularly recommended for indirect lighting in conjunction with the Stepped Profiles 3390 and 3391. In this case, the aluminum profile, including Flexible LED Circuit Board, is attached, and then the TL Decorative Molding is installed.

Light installation with TL Decorative Molding 3179

For a light installation with TL Decorative Molding 3179, the following points are also to be complied with:
The Flexible LED Circuit Board must not exceed the maximum length of 5 m. Implementing illumination in the skirting area is only feasible if the TL Decorative Moldings 3179 are placed one on top of the other, in double lamella format. For the installation of the aluminum profiles, initially install them in the Decorative Molding and then glue the molding to the wall. Then glue the LED Strips to the base of the upper profile.

Installation lengths > 5 m

As soon as the installation of the Flexible LED Circuit Boards is completed, in one direction, in a length of more than 5 m, the 200 W System Controller with two outputs is to be used. Connect the first 5 m of Flexible LED Circuit Board to the first output. Using an additional 5 m extension cable, connect the second Flexible LED Circuit Board to the second output. When doing so, feed the extension cable parallel to the first Flexible LED Circuit Board. The cable should be attached to the molding at approx. 30 cm intervals using Decorative Molding Adhesive 3041, in order to prevent undesirable shadow casting. In the transition between the first and second Flexible LED Circuit Boards, the aluminum profiles in the Decorative Molding should be arranged so as to be slightly offset so that illumination without flaws is possible. A slight radiation angle offset cannot be avoided in this case. Using the method described, cohesive lighting of up to max. distance of 10 m (based on a power source) can be implemented.

Remote control

The TuneLight System Controller can be very easily and quickly coupled with the TuneLight Wireless Remote Control. A maximum of four System Controllers can be coupled to one Wireless Remote Control. Each System Controller must be individually programmed, as described below. Press and hold the "Pairing Key" button on the System Controller for at least 6 seconds. This will delete existing programming if required. This process is signaled by a short flash, and then subsequently adjustment of the Flexible LED Circuit Board to a medium color setting. All data stored in the System Controller has now been erased. To program the Wireless Remote Control to the System Controller, perform the following steps:

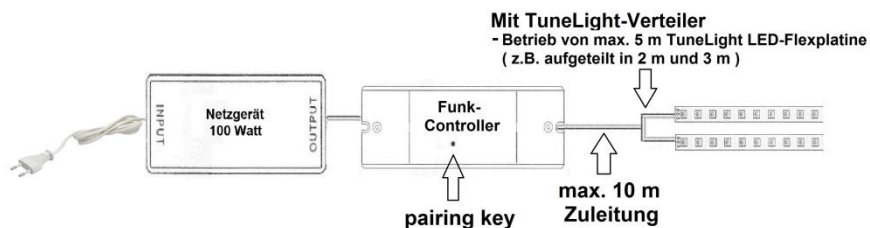
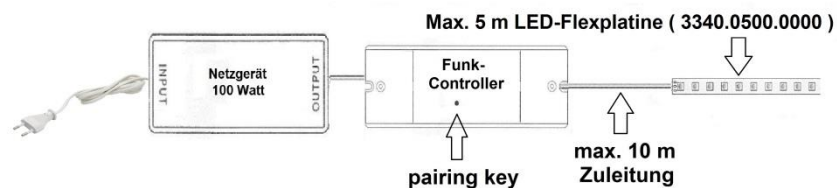
- Switch on the Remote Control using the on button
- Press the "Pairing Key" button on the System Controller
- Press the touch panel on the Wireless Remote Control and select a desired light color, between cold white and warm white, to send a command to the System Controller.

The Wireless Remote Control is now coupled with the System Controller.

Follow the instructions in the TuneLight Wireless Remote Control Operating Instructions.

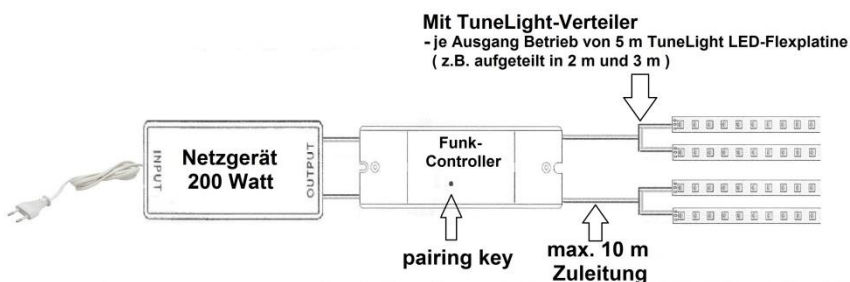
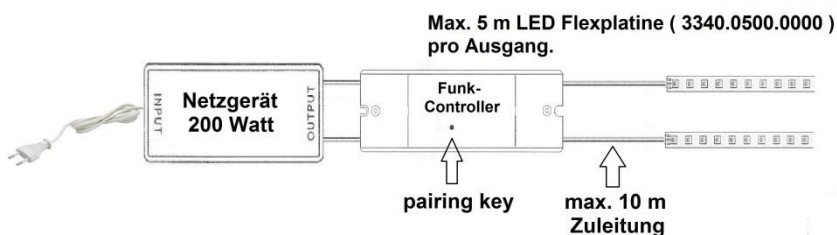
Power supply with System Controller, 100 W

TuneLight System Controller with 100 W for max. 5 m TuneLight Flexible LED Circuit Board



Power supply with System Controller, 200 W

TuneLight System Controller with 200 W for max. 10 m TuneLight Flexible LED Circuit Board



TuneLight Presentation Case	For professional on-site consultation, we recommend the use of the TuneLight Presentation Case. Original samples of the Decorative Molding and the technical components provide perfect insight into the new lighting installation. Both the profile/molding selection as well as the light yield can be simulated for a range of mounting applications. In addition to the matching Decorative Molding, even the ideal radiation angle of the LED installation can be determined and identified.
Switchable electric socket	We recommend that a switchable electric socket be installed by an electrician, to supply power to the TuneLight System Controller. The LED lighting system can then be switched on and off independently of the remote control. The light mood previously selected by the Wireless Remote Control is then stored, also by turning off a light switch.
Mounting the System Controller	The TuneLight System Controller is easy to conceal in an installation in suspended ceiling constructions or walls covered by drywall. It is wise to install an inspection flap for this purpose. Alternatively, the System Controller can also be installed in a universal flush-mounted installation housing. Also refer to "Planning the lighting installation".
Implementation in corner areas	<p>The power supply to the Flexible LED Circuit Board should ideally always be installed starting from the corner of the room, so that it does not have to be installed across the corner. Also refer to "Planning the lighting installation".</p> <p>The power cable should be laid in the profile, approx. 40 cm from the corner of the room. In this way, the hub, as well as both LED connections, can be housed and laid in the Decorative Molding without voltage. Furthermore, the heat-shrink tubing of the Flexible LED Circuit Board in the corner should jut out by approx. 2 cm from the aluminum profile. In this manner, harmonious overall illumination is achieved in corners and not too much light is lost when illuminating corners of rooms. When installing across the corner area, this is often "over-illuminated". With this solution, the Flexible LED Circuit Board in the corner is covered opaquely, to achieve the same appearance as the corner preparation with the power connection.</p>
Further information	Follow the instructions in the Data Sheets on the products being used and those included for the TuneLight LED Lighting System.

Remark

This Data Sheet is based on extensive development work and years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

When a new version of this Data Sheet with updated information is published, the previous version no longer applies. The current version is available on our website. Version I

Brillux
Weseler Straße 401
48163 Münster
GERMANY
Phone +49 251 7188-0
Fax +49 251 7188-105
info@brillux.de
www.brillux.com