

## 24 Tips and Tricks

### ■ Right choice of luminaire type

**staub designlight** luminaires offer numerous creative possibilities for indoor and outdoor lighting. We recommend that a light test be made to ensure that you have selected the right luminaire for a specific location. Our demo case enables you to try out each luminaire before you actually buy it. If you wish to make a light test below water, we shall be happy to send you a test luminaire.

### ■ Spotlights, Ultraspot, Maxispot, Megaspot and Gigaspot luminaires

When positioning these models of the **staub designlight** range of luminaires in your garden or pond, make sure you angle the light beam away from your line of sight, i.e. direct it to the opposite direction from where you are sitting. Side dazzle effects can easily be eliminated using the appropriate glare guards or honeycomb anti-glare louvre (or a combination of both), which we also supply (see Accessories).

### ■ Halogen and high-power LED luminaires

To obtain "warm" or soft light effects, we recommend using dichroic filters or frosted lenses. If requested, we will mount them into the luminaire direct.

### ■ LED effect Angle Spot

LED effect lights are at their best on possibly fine and even ground or wall surfaces. Avoid using them on coarse wall plastering or highly-structured wall plates. Halogen or high-power LED lamps are more suitable for these applications, since the light is reflected at a wider angle.

### ■ Halogen and LED luminaires

When combining both light systems using white light, please allow for sufficient distance between them since the difference in light colour is still apparent to some extent. If you wish to use a combination of both at short distance, we recommend that warm white LED lamps be ordered.

### ■ Luminaire assembly on walls, ceilings or in the ground

Run all electric wiring conduits from the respective luminaire to the transformer separately (star-configured wiring). This will reduce your installation time considerably at slightly higher material costs. Our Minispot and Superspot Mini luminaires always require star-configured wiring.

### ■ Transformer/power supply unit

To ensure safe storage of your transformer/power supply unit in the garden, place it into a concrete duct with soakaway bottom or into one of our underground housings. Mounting the transformer/power supply unit openly in the garden is also possible. However, the cable joints will then be unprotected and exposed to animal bites or mechanical damage.

### ■ Cable joints

It is recommended that all cable joints be potted to prevent the cables from breaking or the occurrence of loose contacts due to moisture in the long term. Prior to potting the cable joint, clean the area to be potted with acetone to allow for better adhesion of the cable in the potting resin. Only our 2-component potting resin should be used as this is of an excellent quality. For best results please read the instructions carefully before mixing the potting resin.

### ■ **Spanners**

For our Ultraspots, Maxispots, Megaspots, Gigaspots, Angle Spots, Superspots, Honeycomb Spots and Skyspots we also provide the relevant spanner. Thanks to this handy tool, each luminaire type can be easily opened and closed with very little effort. Properly screwed luminaire housing ensures they are waterproof.

### ■ **Protection from rodents**

Our 40 cm standard rodent-proof corrugated conduit is sealed directly to the luminaire base. We recommend that additional rodent-proof braided hoses be ordered for all luminaires which are not protected from animal (particularly rodents) access. This is particularly important for luminaires where the connecting cable is still visible after installation.

Note: Sometimes rodents even dig out cables buried in the ground. Make sure all electric cables are run in electric wiring conduits.

### ■ **Cables**

To prevent mechanical damage, it is recommended that all cables be run in electric wiring conduits. This is also valid for cables run underwater in ponds.

### ■ **Cable length**

The maximum standard cable length for a linear- or star-configured set connected to the 12 volt AC/ 24/54 volt DC output is 20 metres, running from the transformer/power supply unit to the last luminaire. If you wish to arrange the set over a longer distance, we can provide a mains cable with a higher cable cross-sectional area. Another option is to position the transformer/power supply unit "closer" to the luminaires, which requires a 230 volt AC power cable to be run in the garden. This 230 volt power supply must be installed/ connected by an officially qualified and certified electrician.

### ■ **Cleaning of luminaires**

Luminaire housings used above water will become matt and dull after a certain time. We recommend using our kit (see Accessories, page 79) to thoroughly clean and protect the luminaires. Remember to rinse off any polish residue on the O-ring and rubber grommet of the cable connection. Limescale and algae build-up on luminaires used below water can be removed by placing the entire, closed luminaire for 2-3 minutes in a mild softening agent and rinsing it carefully afterwards. For optimal protection, treat the surface with our cleaning and care kit. Caution: Stainless steel polish may harm the fish in your fish pond! Make sure all residue is removed!

### ■ **Leaking luminaires**

In the event of any moisture or water entering the luminaire, first try to locate the cause. If it was not properly closed, clean the interior and dry it with a warm blow-dryer. Use an electric contact spray for oxidized luminaire contacts. Check all connecting cables for mechanical damage and repair and make waterproof if necessary.

### ■ **Assembly case**

Our assembly case (see Accessories) contains all the important tools and spare parts to assemble and maintain all our luminaires and carry out almost all repair work quickly and in a reliable manner.