



Kit Contents

Illuminator

Star Ceiling Kit MS168 – 50W tungsten halogen illuminator with 1 plug.

Star Ceiling Kit LS224/XLS336 – 75W tungsten halogen illuminator with 1 plug.

Dimensions: (L)11.26" x (W)6.1" x (H)4.68"

Fiber Optic Harness

Star Ceiling Kit MS168 – Fiber optic harness with 168 tails. Lengths vary between 6.56' and 9.84'.

Star Ceiling Kit LS224 – Fiber optic harness with 224 tails. Lengths vary between 3.28' and 14.76'.

Star Ceiling Kit XLS336 – Fiber optic harness with 336 tails. Lengths vary between 6.56' and 24.6'.

The harness is made of mixed diameter fiber – 0.03" and 0.04" – to give a near and far effect.

Colorwheel

A six segment colorwheel is supplied. This is pre-installed in the illuminator and can be easily removed by the end user to give static white light output.

End Fittings

Star Ceiling Kit MS168 – 168 mushroom lenses are supplied with this kit.

Star Ceiling Kit LS224 – 224 mushroom lenses are supplied with this kit.

Star Ceiling Kit XLS336 – 336 mushroom lenses are supplied with this kit. These can be fitted on the fiber ends for decorative effect or to hide unevenly drilled holes.

Star Ceiling Kit MS168
Star Ceiling Kit LS224
Star Ceiling Kit XLS336



Electrical Requirements

1 x 110V household electrical supply.

Cutout sizes: 0.03" for bare fiber ends. 0.04" for bullet lenses.

Tools Required

Hand drill
0.03" drill bit (for bare fiber option)
0.11" drill bit (for mushroom lens option)
Translucent silicone sealant

Safety Information

Our fiber optic lighting kits emit no heat or U.V. The end fittings are completely cold and have no electricity running through them, making them safe to touch and perfect for wet or humid environments where conventional lighting would be dangerous. Please be aware that the illuminator may become hot, and should be kept out of reach of children.

The illuminator is not waterproof and must be installed in a watertight location. IP rated enclosures are available if required.

Prior to Installation

Decide on a suitable location for the illuminator. This should be in a watertight and ventilated area, and access will be required approximately every 4000 hours for bulb replacement. The illuminator requires a 110V electrical supply (household socket).

Plug the harness into the illuminator to help decide whether you prefer the bare fiber effect or using the acrylic lenses. The overall effect of these options is different and is a matter of personal preference.

If you are using bare fiber, then a 0.04" drill bit will suit both fiber sizes. A 0.11" drill bit is required for the mushroom lens option.

Each bundle of tails is sheathed in a black Megalon material. Depending on the illuminator location, this can either be stripped back using a Stanley knife or removed completely by gently pulling it. For example, if all the longer tails are being fed in one direction, then the tails can remain in the sheath until they are required to branch off, keeping the installation tidy. If the illuminator is located in the middle of the area to be covered, then all the sheathing will need to be removed to allow the tails to branch off in different directions from the illuminator.

The fiber optic tails can be placed randomly to create a star ceiling, or in any pattern of your choice. Tails can be installed in almost any material: wood, plasterboard, Perspex, concrete etc.

Installation Guide

If two people are available to carry out the installation, we recommend that one person drills up into the ceiling from underneath. A second person can then feed the fiber optic tails through each hole as it is drilled from the room below.

If one person is carrying out the installation alone, all the required holes can be drilled from underneath, and then identified from above by shining a bright light up toward the ceiling.

The tails should be allowed to protrude through the ceiling by approximately 3.15". For the bare tail option, a dab of silicone sealant should be applied to each tail, above the ceiling, to secure it in position. Note: silicone is not required for the mushroom lens option. We **DO NOT** recommend the use of superglue on the tails as it causes them to become brittle and prone to breakage, resulting in a loss of light.

Unlimited Light accepts no responsibility for damage to fiber optic components during installation.

If the ceiling is to be painted then this should be done after the installation of the fiber optics.

For the bare tail option: you can now use either scissors or side cutters to trim back the tails so that they are almost flush with the ceiling. We recommend leaving around 0.08-0.11" of fiber protruding so that the tails can be pulled with tweezers at a later date, should repainting be required.

For the mushroom lens option: you can now push the lenses onto the fiber tails and then push the lenses into the ceiling.

Arrange for the electrical feed to the illuminator to be linked back to a remote switch in a convenient location to control the operation of the illuminator.



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