

# E224 Box Light Kit

See [www.dollhousewiring.com](http://www.dollhousewiring.com) for more photos and other ways to attach ExtraBrite® Striplights to dollhouse wiring.

- Parts: 4 Box Frame Material: (9/16 x 3/32) 6+, grooved
- 1 Diffuser Material: (plastic) 3<sup>15</sup>/<sub>16</sub> x 5<sup>15</sup>/<sub>16</sub>

**Paint or stain** the Frame Material, one coat and sand until the surface is smooth and the wood is beginning to show. You may wish to sand the Diffuser for a frosted look

**Test** your room setting to determine where you need light and where to put this Box Light fixture. This box light kit can cover up to 5" of ExtraBrite® LEDs by joining the Diffuser in the middle, or can make 2 boxes to cover 2" of ExtraBrite® Striplight each.

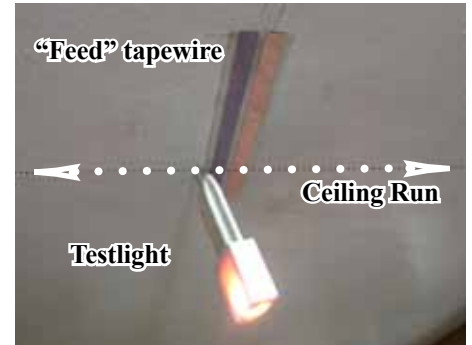
**Plan** the dimensions of your Box Light. The ideal size is 1/2" larger than the strip-light on all edges. So, if you have placed 3" of ExtraBrite® LEDs in one strand, this Box Light will be 4" long and 1 3/8" wide (that's what you see here).



Do a test-layout of your room plan to locate the Box Light. Mark the ceiling for the center of the ExtraBrite® Striplight, and mark the ends for the length.



Find the ceiling run of tapewire. Note that in *this* house, the blue wire is toward the back of the house.



Here's the Ceiling Run. Lay tapewire overlapping the ceiling run and the marks for the ExtraBrite® Striplight.

## EL66 Eyelet Insertion Tool



Eyelet the feed tapewire to the ceiling run, blue-to-blue and copper-to-copper.



Test the feed tapewire!



The feed tapewire goes outside what will be covered by the Box Light, so I am spackling outside of the box.



Paint the ceiling.



Paint the Box Light Frame stock



Sand until the surface is smooth and some of the wood is showing. Repaint the inside

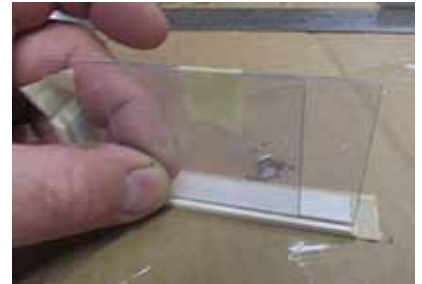


X-Acto Miter Box

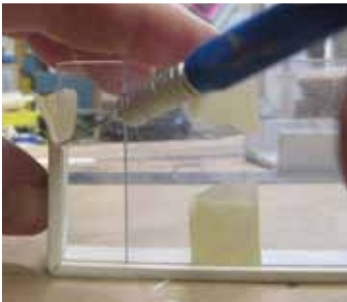
Cut 45° ends with the groove on the inside (the shorter face)



Two sides and two ends



I am making a joined diffuser that can slide open



Mark both ends half-way between the inside face and the bottom of the groove

45° cutting guide



Many many cuts (many!)



Scissors work too but use **lots** of tape and watch out for slipping (more tape than you see... my pieces slipped and I had to trim)



Tape and glue the Box Light together. Be skippy with the glue. Use the factory edge where the diffuser joins.

Tapewire



Stick the Striplight to the Tapewire, with the “-” over the blue and the “+” over the copper



Eyelet the Striplight to the Tapewire



Drive the last-little-bit of the eyelets with an awl to avoid hitting the LED



Repaint the outside



Glue and tape the Box Light to the ceiling. See how it lights up the space!