

# Simulating Gas Street Lights with:



## PARTS REQUIRED:

- 1 eLite Jr. with Program ID 6.1 (Misc 1) [\[link\]](#)
- 12 12 inch LED Cable - Warm White [\[link\]](#)
- 12 BrickForge/LifeLites Lamp Post [links: [dark green](#) [white](#) [black](#) [tan](#) [brown](#)]
- 8 12 inch Jumper Cable [\[link\]](#)
- 8 Expander Board [\[link\]](#)

## OPTIONAL:

2xAAA Battery Box [\[link\]](#)

- or -

9v Power Adapter [\[link\]](#) and an additional 12 inch Jumper Cable

- or -

Mains Power Adapter [\[link\]](#) and an additional 12 inch Jumper Cable

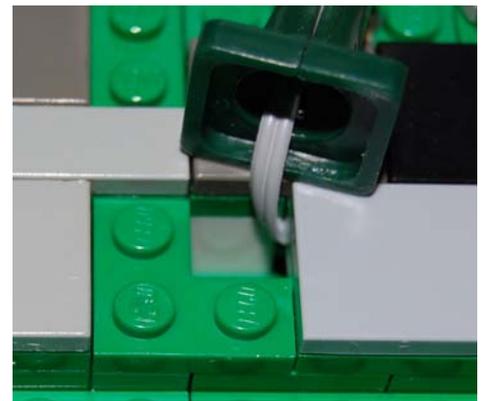
A modern electric street light is easy, take one lamp post, one bright white LED and add power. If you wish simulate gas lights it will take a little bit more but the effect is well worth it!

You'll want to choose "warm white" LED's to more closely match a natural flame. The heart of the effect is an eLite Jr. You'll want Program ID: 6.1. You'll be using the "candle flicker" effect. There are 4 outlets on the eLite Jr. each putting out a different candle flicker pattern. It is not recommended that more than 12 LED's be used for this effect. Using more than 12 may make it apparent that there are only 4 flicker patterns thus taking away from the effect. If your plans call for more than 12 lamps you should get a second eLite Jr. or an eLite Advanced 2 which has 8 outputs.

The eLite Jr. is self powered using a small inexpensive battery, however if your plans include long term displays you may want to consider using an external power source. LifeLites provides options for that including a 2xAAA Battery box, a 9v Power Adapter, or a Mains Power Adapter. An elite Jr. will require modifications to utilize external power; an eLite Advanced will not require any modifications; Please inquire before purchase about externally powering an eLite Jr.

Plan a raised street to conceal your wiring and to allow easy access to your eLite Jr. You'll be connecting the components as shown in the wiring diagram. Remember that all the lights attached to the same eLite Jr. LED output will have the same flicker pattern. You'll want to avoid placing them next to each other.

You'll either need to modify a plate by drilling a hole for the wire to pass, use a Technic plate, or plan your construction with a "missing" stud. If transportation is an issue, remember to allow for slack so the lamp post can be laid down as shown.



If you are using the “missing” stud technique you may find the lamp post slightly loose. This can be helped by surrounding the post with sidewalk tiles.



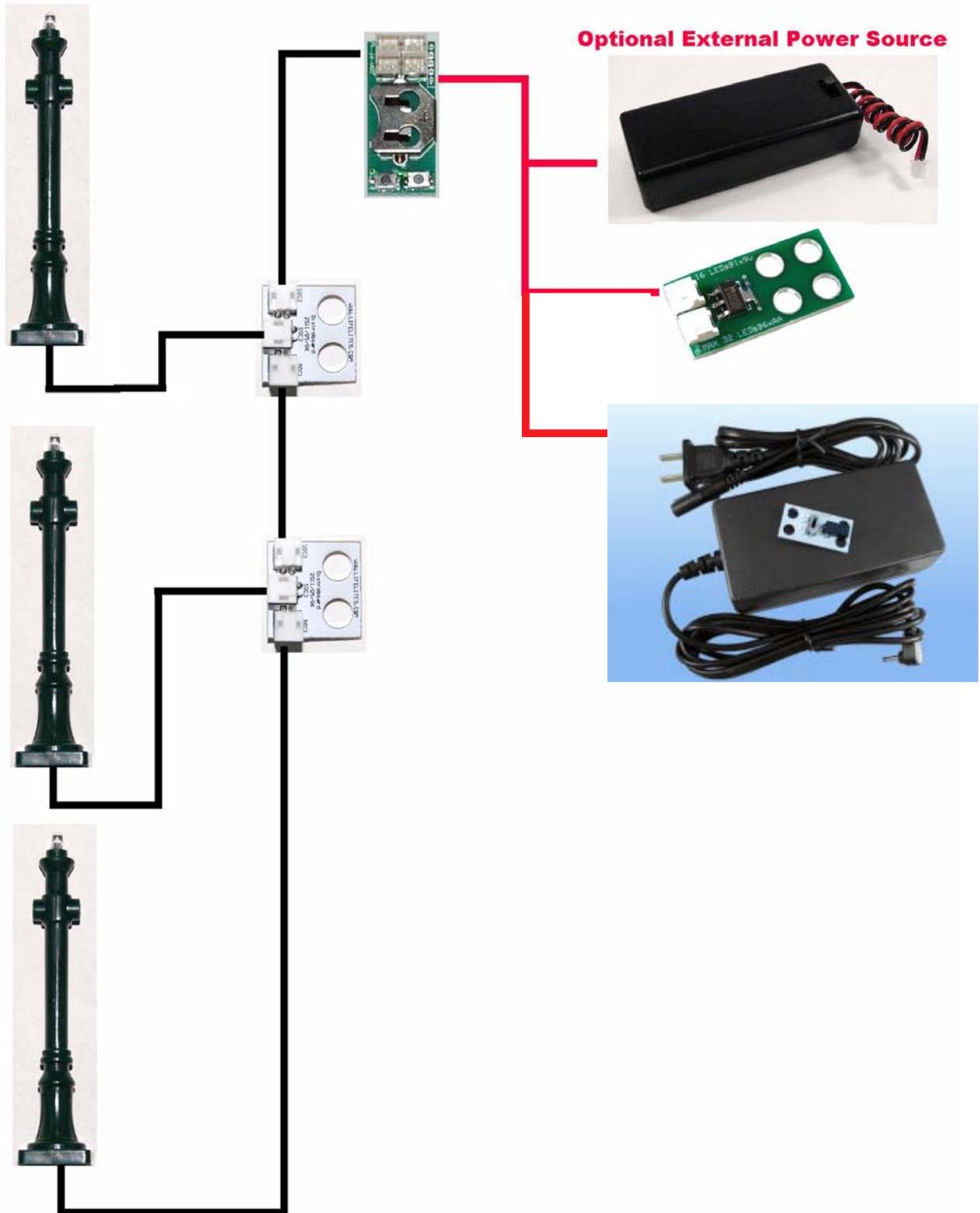
Finishing the lamp you're bound only by your imagination and the colors available. You may want to plan this before ordering. For instance the 2x2 dish is not currently available in dark green. Here the dark green pole is shown with a tan dish and flat gold stud which works quite well. Alternatively, dark green and white would give a Christmas feel to your layout.

Once everything is set up, apply power to your eLite Jr. and follow the included instructions to select the “candle flicker” effect. Your street lights now mimic a gas lit street!

One further hint: If you are using the 9v Power Adapter with a LEGO® 9v train speed regulator it is only necessary to turn it up high enough to light the lights, (generally the second notch). This will help to reduce power consumption and prolong life of the electronics.



## Wiring Diagram



Note: For simplicity, wiring for only one eLite Jr. LED output is shown. Repeat connections for all four outputs. To connect external power eLite Jr. must be equipped with a power input. Enquire before purchase. For more information please visit [www.lifelites.com](http://www.lifelites.com).