

Lawn Lights™ User's Manual

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Quick Start Guide

- **Tripping Hazard** - do not use in areas where foot traffic is expected.
- Unroll the lights in arc, loop, or semi-circle patterns; **avoid using straight lines**
- To maximize coverage, keep roughly **10 feet of space between each pass** of lights
- Do not use Lawn Lights™ near roads and sidewalks where snow removal equipment may damage or destroy your set
- **Stake each light** to keep the lamps above any snowfall and make the display more brilliant and uniform
- To facilitate future use, roll the string back onto the spool starting with the end of the string and **finishing with the plug**
- Purchase and **use a Bayco model KW-130 spool** to collect and store the Lawn Lights™ as a very highly recommended alternative to the included shipping spool
- If you reuse the shipping spool, **do not wind the string** back onto the spool by holding the spool stationary and winding the wire. Rather, **draw (roll) the string** back onto the spool as it is being spun
- Count the stakes as you collect them to help ensure you got them all (there should be 36)
- Slip Magic Color Caps™ on the lamps for color, if desired

Please visit www.LawnLights.com for additional consumer resources!

Detailed Guide

1. Preparation

The first thing you will need to know is the size in square feet of the area you intend to decorate. Exclude areas where you expect foot traffic, because Lawn Lights™ are not recommended for use in those areas. You can calculate the area by multiplying its length in feet times its width in feet. If the area is unusually shaped, try dividing it up into smaller rectangular areas and then adding up the areas of each one.

Once you know the area in square feet, you can determine how many sets of Lawn Lights™ you will need from the table below. Each set of Lawn Lights™ is designed to cover 2500 to 3600 square feet (10 ft. spacing models).

Number of Sets	Approximate Area ¹ covered in square feet	Approximate Cost ² per 1000 square feet	Time ³ to Deploy	Time ³ to Stake (optional, but recommended)		
				1 person	2 people	3 people
1	2800	\$23.14	5 mins	6 mins	3 mins	2 mins
2	6000	\$21.45	10 mins	12 mins	6 mins	4 mins
3	9400	\$20.76	15 mins	18 mins	9 mins	6 mins
4	12800	\$20.36	20 mins	24 mins	12 mins	8 mins
5	16200	\$20.10	25 mins	30 mins	15 mins	10 mins

Notes:
1 - Area listed is approximate and is achieved by following the directions. Coverage may be increased or reduced depending on how closely the lamps are set out in the lawn.
2 - Cost listed is based on a suggested retail price of \$65 per set and the approximate coverage areas listed.
3 - Times listed are approximate. Beginners may take slightly more time at first.

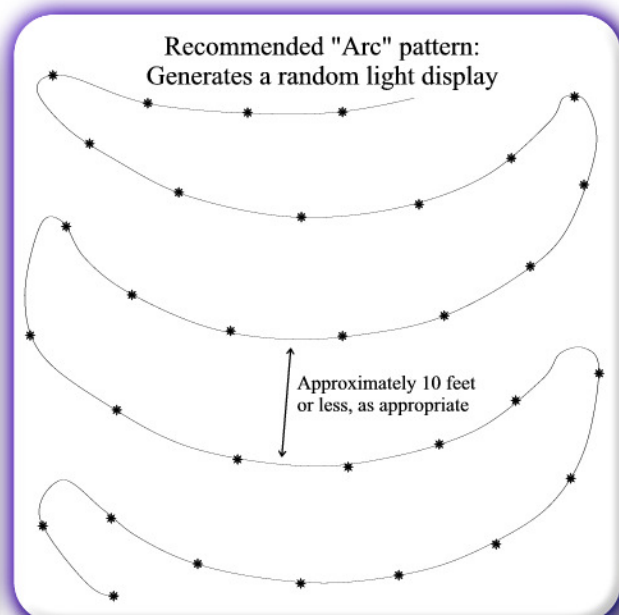
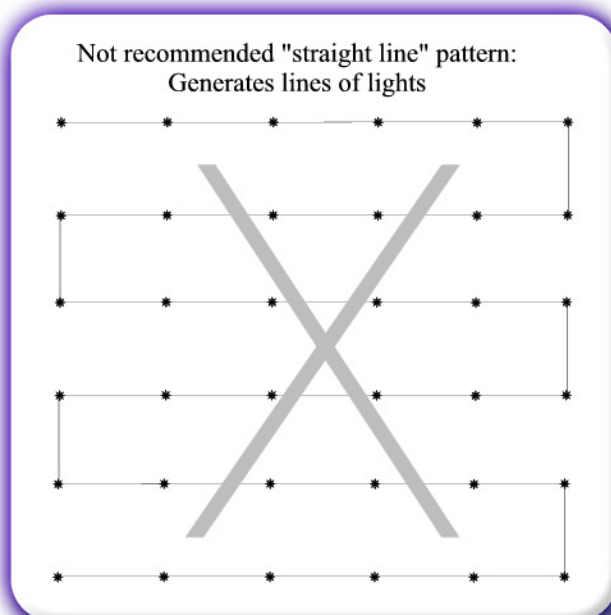
Although each set of Lawn Lights™ is designed to cover approximately 2500 to 3600 square feet, they can be used to cover more area or less area, depending on how densely the lights get distributed. If you distribute the lights densely, it may look better but will not cover as much area. Similarly, if you distribute the lights thinly, it might not look as good but will cover more area. The best results are achieved when you follow the directions for setting up the Lawn Lights™.

2. Set Up

You can decorate with Lawn Lights™ very quickly and easily. The Lawn Lights™ string is wound on a spool. The plug end of the string should always be on the outside of the spool (rolled onto the spool last). If the plug is indeed on the outside of the spool and is available, you will unroll your set starting at your power source. If the plug was unfortunately wound onto the spool first and is not readily available, you will need to start at the farthest point and unroll the entire string, working towards your power source. In this event, once the string has been completely unrolled, you will probably need to drag the plug end to the power source and then reposition the lights. This is why it is important to roll the string back onto the spool such that the plug end of the string is on the outside of the spool (rolled onto the spool last). You may also wish to first briefly plug the Lawn Lights™ in to confirm that the set is in working order before you begin.

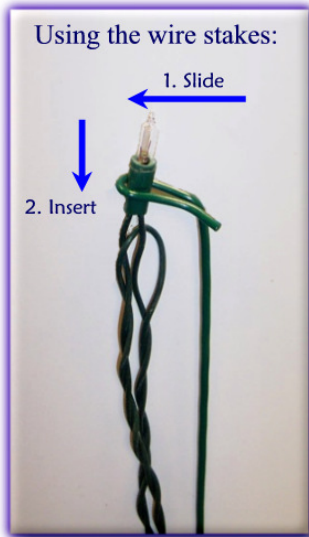
You simply unroll (draw) the Lawn Lights™ off of the spool in arc patterns. It only takes 5 to 10 minutes to unroll a set of Lawn Lights™ in your lawn and plug them into a power outlet. **DO NOT** hold the spool stationary and unwind the wire off of the spool. Rather, slide a broom handle or something similar through the center of the spool and while holding it, draw the string off of the spool causing it to spin. Be careful when unrolling the very end of the string off of the spool because it can whip off of the spool and possibly strike you if it has not been secured to the spool. Since the Lawn Lights™ string poses a tripping hazard, do not use Lawn Lights™ in areas where foot traffic is expected (just as you would not use an extension cord in these areas). You should also attempt to keep the lights and wire far enough away from roads and sidewalks so that in the event of a significant snowfall, snow removal equipment will not get into your display and damage or destroy your set.

When unrolling the Lawn Lights™, the string should be laid out in “arc” or semi-circle patterns rather than straight lines. This will make the distribution of lights much more random. Avoid laying the string out in straight lines because the lights will line up and appear as straight lines of lights rather than a random peppering of lights.



It is also important to keep about 10 feet of distance between each arc of lights as you pass back and forth over the lawn. This will help ensure that you will get the 2500 to 3600 square feet of coverage that the product is designed for. If you are attempting to decorate an area smaller than 2500 square feet, simply reduce the distance between each arc to something more appropriate. For instance, keeping 5 feet of distance between each arc of lights will decorate roughly 1250 square feet of area.

Once the Lawn Lights™ string has been unrolled in the area, you can add color using Magic Color Caps™ if desired.



Next, it is recommended that each of the lights be “staked”. This will make the display even more spectacular by making the lights more visible and appear brighter and more uniform. In the event of a rainstorm, it keeps the lamps up and out of any standing water. It also keeps the lights visible in the event of a snowfall. “Staking” the lights requires you to insert each lamp base into a small inconspicuous stake and then push the stake into the ground. It is not very difficult and well worth the effort. Simply hold the lamp base assembly slightly higher than the head of the stake, slide the wires that exit the lamp base assembly through the slot, and then insert the lamp base assembly into the head of the stake. This step will take roughly 6 minutes for each set of Lawn Lights™. This time can be significantly reduced if more than one person performs this step. It can be a fun family function!

You can adjust the final height of each lamp by raising or lowering the stake in the ground. If you anticipate a moderate snowfall in your area, you will probably want to keep the lamps higher off of the ground so that they remain above the snow.

Depending on how far the stakes have been pushed down into the ground, several inches of snow must fall before the lights will begin to become covered. The stakes that are included with each Lawn Lights™ set will accommodate a snowfall of up to about 8 inches. The display is visible even with a few inches of snow covering the lamps. Some people actually prefer this unique effect. Obviously, in the event of a significant snowfall, the Lawn Lights™ product would become buried and eventually concealed, as would any lawn decoration.

It is also recommended that Lawn Lights™ be set out prior to any snowfall. The wire is a dark green color so that it blends in with the grass and ground. If the string is unrolled on top of snow, the wire will be highly visible and perhaps unsightly. However, if another snowstorm is imminent, the Lawn Lights™ can be set out and the new snow will then cover the wire.

3. Operation

Operating Lawn Lights™ is very simple. Simply plug them into a live power outlet. Operating Lawn Lights™ during heavy rainstorms might cause GFCIs to trip and refuse to reset until the Lawn Lights™ product has dried out. This is exactly what a GFCI is supposed to do in order to protect people from electrical shock. Luckily this is not an everyday occurrence during the winter months when snow is more likely than rain.

Some decorators like to animate their displays with external controllers or by other methods. While it is acceptable to turn Lawn Lights™ on and off, it is important to note that Lawn Lights™ are **NOT DIMMABLE**. If you attempt to operate Lawn Lights™ at anything other than full power, you run the risk of destroying the LEDs and your set of Lawn Lights™ will cease to operate. Lawn Lights™ can be flashed on and off, but they cannot be dimmed.

4. Using multiple sets of Lawn Lights™ with a Ground Fault Circuit Interrupter (GFCI)

A certain amount of ‘trickle’ current is lost to earth ground in each set of Lawn Lights™. This trickle current is usually very low and generally will not trip a GFCI by itself. However, if you are using multiple sets of Lawn Lights™, these trickle currents add up and will sometimes trip a GFCI if high enough. If your GFCI frequently trips, first unplug all of your Lawn Lights™, then plug each set into your GFCI outlet individually to determine if one set in particular is tripping the GFCI. Next, try plugging them all in, but add them one at a time. In very humid or damp conditions, you can usually operate 3 sets of Lawn Lights™ from one GFCI circuit before it will tend to begin tripping. If this appears to be the problem, you can solve it by dividing your sets among multiple GFCI circuits. This is easily accomplished when using multiple GFCI portable safety outlet adapters.



5. Disassembly

Dismantling the Lawn Lights™ display is even quicker and easier than setting it up! First, collect all of the stakes by pulling them from the ground and removing the lamp bases from each stake. This is not difficult and only takes roughly 5 minutes per set. The Lawn Lights™ can then be quickly and easily wound on its spool in about 10 minutes per set.

Always put the Lawn Lights™ away in working order. It will be easier for you to diagnose and fix any problems while they are still out than it will be when you put them out the next time.

If you reuse the shipping spool, **do not wind the string** back onto the spool by holding the spool stationary and winding the wire. This will cause your string to twist up on you and cause problems. Rather, spin the spool by twisting your wrists or by other methods to **draw (roll) the string** back onto the rotating spool. This will cause far fewer problems in the end.

It is **highly recommended** that you purchase and use a Bayco model KW-130 Heavy Duty 150' Cord Capacity Reel to collect the Lawn Lights™ string instead of the included spool. The Bayco spool can be found in many major retail and hardware stores across the country for about \$6 to \$8. The Bayco spool will make collecting and storing the Lawn Lights™ **significantly faster and easier**, so do yourself a favor and get one. However, the included shipping spool works too.



Always start rolling the string back onto the spool **starting with the end of the Lawn Lights™ string first** so when you are done, the plug will be on the outside of the spool (rolled onto the spool last). The next time you use the set, you will be able to start unrolling the Lawn Lights™ at the power source. Avoid rolling the string back onto the spool with the plug first, because you will not be able to start unrolling the Lawn Lights™ at the power source the next time you want to use the set. Also, secure the end of the Lawn Lights™ string to the spool with a piece of tape so that when the string is unrolled from the spool in the future, the end of the string will not whip off of the spool and possibly strike you.

6. Troubleshooting

Lawn Lights™ are designed to be very durable and operable for years. If a set of Lawn Lights™ stops working, it is most likely because a wire has been severed. Sometimes this happens when an animal or rodent (squirrel, chipmunk, rabbit, etc.) chews through the wires. You can usually find and fix the problem very quickly if you inspect the length of the string. Please visit www.LawnLights.com for tips and troubleshooting procedures.