LUMATEQ

INSTRUCTIONS

LED Landscape Light 6-Watt (LL50)

Prevent Electrical Shock: Carefully Read All Warnings and Instructions First. Check that the unit has not been damaged during transport.

WARNING: Consult a qualified electrical professional/electrician to install this device in accordance with appropriate local and NEC codes and regulations.

WARNING: To avoid fire, shock, or death, turn off power at circuit breaker or fuse before installation and/or servicing; Utilize Circuit Tester to ensure power is off before wiring; for supply connections use wire rated at least at 90°C.

WARNING: Disconnect power when installing, servicing fixture or changing lamps.

WARNING: To be installed and/or used in accordance with appropriate electrical codes and regulations.

WARNING: Do not connect line voltage wires to low voltage terminals!

WARNING: Device is suitable for installation in wet locations; GFCI protection recommended.

WARNING: Although fixture is waterproof, it is NOT designed or intended to be submerged.

WARNING: Do not allow line voltage wires to become submerged!

WARNING: Edges may be sharp, handle with care.

WARNING: If unsure about any part of these instructions, consult a qualified electrical professional.

- IP67 rated; Suitable for wet locations (although fixture is waterproof, it is not designed or intended to be submerged).
- All outdoor installations and indoor installations near a wet location require the use of a GFCI device for safety, according to the National Electrical Code® (NEC).
- Keep away from flammable objects. Do not position within one (1) inch of any combustible materials.
- If dropped or damaged, the unit may no longer be waterproof and should be replaced.
- To avoid hazards to children, account for all parts and destroy packing materials.

Applicable Models Covered

Part #	Voltage	Wattage	Draw	IP Rating	Light Color	Part Color
LL50-BKA-110-00	110-240V AC	6-Watt	<0.05 AMP @110V AC	IP67	5700° K	Black
LL50-GRN-110-00	110-240V AC	6-Watt	<0.05 AMP @110V AC	IP67	5700° K	Green
LL50-GRN-012-00	12-24V AC/DC	6-Watt	<0.50 AMP @12V DC	IP67	5700° K	Green

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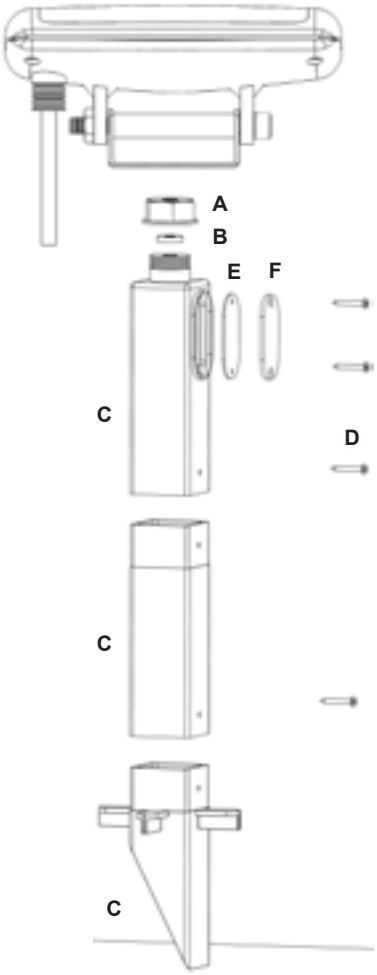
Contents

- 1- LED floodlight with stainless steel bracket
- 1- Plastic Stake (3 pieces)
- 1- Electrical cover for stake
- 1- Hardware



Tools Needed

- Phillips screwdriver (manual/powered)
- Pliers
- Circuit tester
- Silicone caulking
- Wire nuts (3)

Occupation of the Connection-Wires

Voltage	Wiring Colors	Connection
110-240V AC	Black White	Line (L) Neutral (N)
12-28V AC	Black White	Line (L) Neutral (N)
12-28V DC	Black White	Negative (-) Postitive (+)

Installation Instructions

1) Assemble the spike body **(C)** as shown in diagram using the screws **(D)** provided to attach the 3 sections of the body together.
2) Slide the Nut **(A)** over the wire from the light.
3) Slide the rubber washer **(B)** behind the nut.
4) Place the large mounting hole in the light bracket over the threaded stud on top of the spike.
5) Pass the wire through the hole and tighten the nut down to the spike.
6) Connect with wire nuts through access port on the side of the spike, and seal with gasket **(E)** and cover plate **(F)**.

Addendum:

LUMATEQ equipment that is directly connected to AC mains (e.g. 120/220/277VAC) can be damaged by short circuit and overload conditions. In addition, lightning surges or load switching transients (originating outside the bulb) can create voltage spikes or ring waves that can stress and ultimately damage components and render the fixture inoperable. Given that the value proposition for LED bulbs is not only lower energy usage, but longer lifetimes, it will be crucial that transient voltage protection is taken into account to eliminate field failures driven by the electrical environment.

Ensure the following steps are taken to decrease the chance of damage from short circuits and overload conditions:

1. Do not use mechanical timers or contactors to switch on the lamp. These contacts are known to produce voltage spikes which are detrimental to the circuitry of the lamp. It is recommended to use a solid state relay to provide power to the fixture.
2. Replace old circuit breakers, as corroded contacts on both the bus bar and internal contacts of the breaker can cause destructive electrical spikes.
3. Use a surge protection device (SPD) spanning both Line, Neutral and Ground. These devices contain MOV's (a metal oxide varistor) which can help protect the LED bulb from overvoltage surges and ring-wave effects by clamping short-duration voltage impulses as shown in drawing.