



SBML SERIES: Multi Lumen Spotlight with Field Changeable Optics

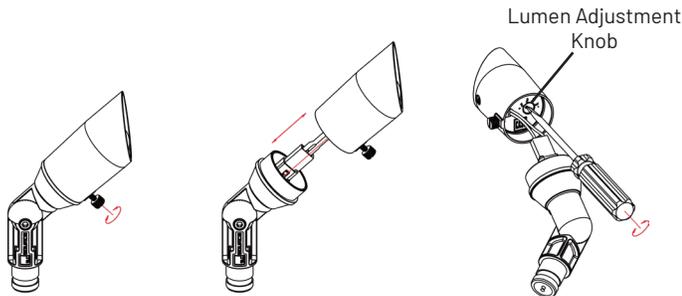
IMPORTANT SAFETY INSTRUCTIONS:

- Please read carefully before installing. Save these instructions.
- Consult with a qualified electrical contractor and local electrical codes before installing any electrical product.
- Clean fixture with mild soap. Do not use acid or any other solvent-based cleaner.
- Do not submerge fixture in water.
- All fixtures must be installed 10 feet (3.05m) away from a pool, spa, or fountain.
- Use fixture with low-voltage outdoor lighting system only.

DO NOT OVERLOAD LOW VOLTAGE CABLE or TRANSFORMER.

ASSEMBLY INSTRUCTIONS: Your fixture is ready to be connected using your preferred wiring method right out of the box.

LUMEN ADJUSTMENT: The SBML Series has four lumen setting options numbered 1, 2, 3, 4, which are the equivalent of legacy halogen 10W, 20W, 30W, and 35W fixtures. Simply loosen the thumb set screw of the light engine/shroud, using a small 3/16" flat head screwdriver, and select the lumen output level by turning the arrow dial. Fixture is factory set at the highest level (#4). See chart on page two for information on fixture performance.



INSTALLATION/MOUNTING INSTRUCTIONS:

Note: We recommend, when installing any low-voltage fixture, that you have the following: **Voltage Meter, Wire Nuts, Amp Probe, Basic Hand Tools for Adjustment.**

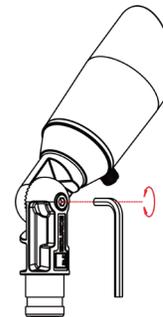
INSTALLATION/MOUNTING & WIRING STEPS:

1. To prevent electrical shock, disconnect transformer from electrical supply before service.
2. Fixture is provided with Set-N-Stake® quick link composite with brass insert stake mount and allen key.
3. Place/set fixture in desired location. Place stake in pre-dug hole, compact/backfill soil leaving approximately 1" exposed above grade.
4. Run wire lead to the desired connection point with the



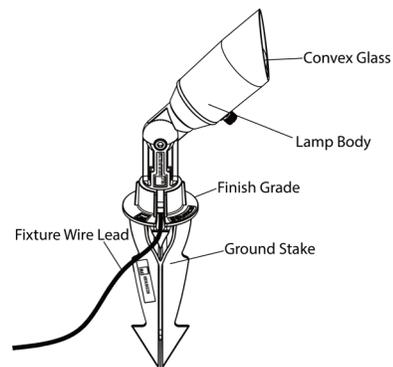
main wire lead running to the transformer, keeping most of the excess wire at the fixture. Bury excess wire directly at the base of the fixture.

5. Cut wire lead as needed, while leaving enough extra wire to move fixture.
6. Connect fixture wire lead to main wire lead from the transformer using desired wire connection suitable for underground burial or wet location. Use underground low-energy cable.
7. Use allen key to adjust the knuckle of the fixture aiming at the center of the object you are illuminating.



WARNING: INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS:

- Lighted lamp is HOT. Lamp is hot when illuminated; do not touch when lamp is on.
- Turn off/unplug electrical power before modifying the lighting system.
- Allow fixture to cool before touching or replacing optics.
- Lamps get HOT quickly! Contact only switch/plug when turning on.
- Do not touch hot lens, guard, or enclosure.
- Keep away from potential flammable materials, structures, and/or landscapes.
- Do not operate fixture if cover, fitting, and/or shield is damaged or missing.



SERVICE INSTRUCTIONS:

To prevent electrical shock, disconnect transformer from electrical supply before service, allow luminaires to cool.

OPTIC REPLACEMENT:

Replacing optics requires the use of the plastic optic removal tool (part# SBMLTOOL) which can be purchased separately and is provided free (one per case of six fixtures). For best results, use a 9/16 or 14mm socket or a 5/16 allen key to provide the handle/leverage required to remove the lock ring holding the convex lens to the fixture body. It is best to perform this on a clean will-lit surface free of moisture and dirt.

Step #1–Separate the light engine/shroud from fixture body by loosening thumb screw.

Step #2–Grabbing the top and base of the white quick connect, located in the top knuckle and attached to the light engine/shroud wire, gently work the connection apart. Do NOT yank wires as this might damage the connection. Using a flat head screwdriver or your finger to hold the base wire quick connect, gently wiggle the connection apart; use needle nose pliers if required.

Step #3–Clean dirt, water, and/or leaves debris from convex glass lens. Use compressed air or a brush to remove fine particulate from lens.

Step #4–Place light engine/shroud on a flat surface. Hold light engine/shroud with one hand, place two male optic removal tool tabs in mating female tabs of lock ring and turn counter clockwise loosening lock ring.

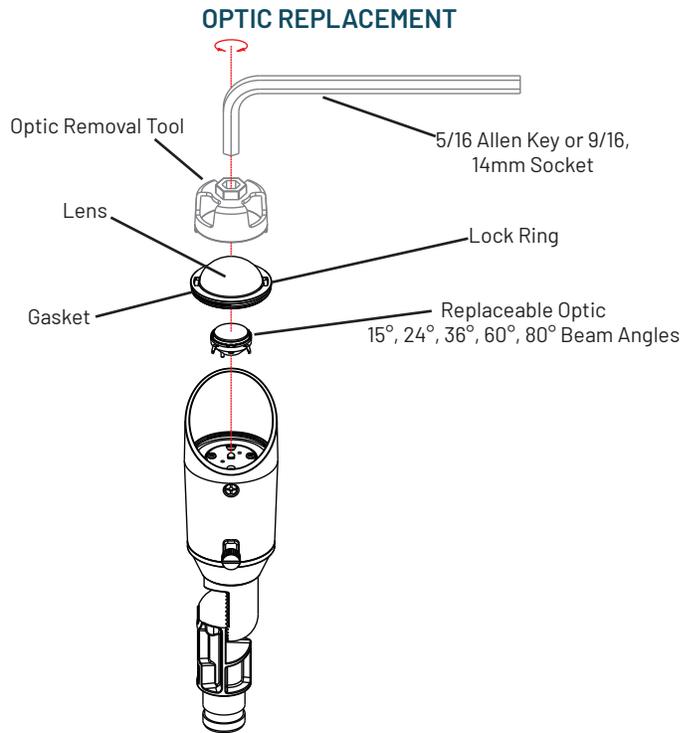
Step #5–Remove lock ring and remove convex glass lens and white combination o-ring gasket seal.

Step #6–Remove optic and replace with new optic, making

sure the writing on the optic indicating beam angle is pointing forward and visible. If dirt or debris fall into optic chamber, use compressed canned moisture free gas to clear dirt from chamber. Do not damage LED.

Step #7–Replace o-ring gasket seal making sure o-ring side of gasket nests in groove of fixture body, replace glass convex lens, replace lock ring. Using lock ring tool and socket, turn clockwise to compress assembly making watertight seal.

Step #8–Reattach light engine shroud to fixture body.



Source SBML Series: Multi Lumen Spotlight with Field Changeable Optics												
Voltage Range 12V - 15V AC/DC Actual Results May Vary + or - 5%						LIGHT OUTPUT LUMENS / BEAM SPREAD						
Finished Good Model #						SBML15	SBML24	SBML36	SBML60	SBML80		
Halgen Equiva- lent	Power Seting	Voltage Input	Current /Amps Input	Consumed Wattage	Power Factor	15°	24°	36°	60°	80° WASH	CCT	CRI
35W	#4, 4.2W	12.0 VAC	0.452 A	3.02	0.784	260 Lm	255 Lm	250 Lm	215 Lm	210 Lm	2800°K	85
30W	#3, 3.0W	12.0 VAC	0.329 A	2.25	0.767	200 Lm	195 Lm	190 Lm	163 Lm	160 Lm	2800°K	85
20W	#2, 2.0W	12.0 VAC	0.216 A	1.5	0.748	138 Lm	135 Lm	130 Lm	130 Lm	128 Lm	2800°K	85
10W	#1, 1.0W	12.0 VAC	0.120 A	0.77	0.722	86 Lm	85 Lm	80 Lm	70 Lm	68 Lm	2800°K	85
Replaceable Optic Part # (Requires #SBMLTOOL, 1 piece included per 6 case.)						SML015	SML024	SML036	SML060	SML080		