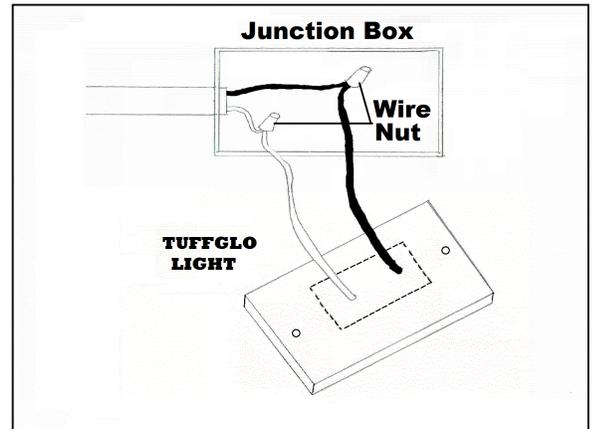
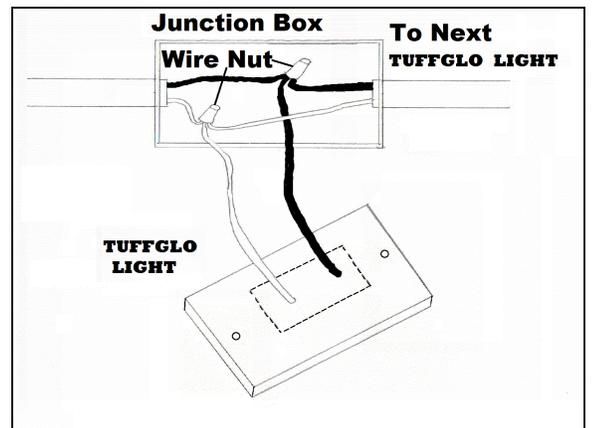


# HOW TO INSTALL YOUR NEW SIZE A **TUFFGLO**® LIGHT FIXTURE

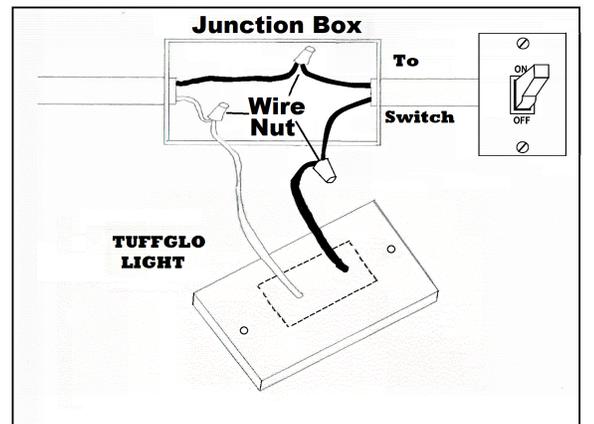
1. This fixture should only be installed by a qualified person.
2. This fixture is suitable for installation in dry locations only.
3. This fixture must be mounted to a standard size junction box, outlet box, or wall case.
4. The following tools will be needed; Philips screwdriver, wire cutter/stripper.
5. **Safety first!** Turn off power to the circuit. Do this at the circuit breaker box or fuse box. Verify that power is removed using a test light or voltmeter.
6. For new installations, skip to the next step. If you are replacing an old light fixture with a new **TUFFGLO** light fixture, do the following – remove the old fixture along with any associated trim or brackets. Disconnect the wires from the old fixture keeping track of the wire colors. Note; some old fixtures use a green or bare ground wire. This ground wire is not needed now, so carefully tuck it into the junction box out of the way.
7. Determine how your new **TUFFGLO** light fixture will be connected. See the pictures.
8. Prepare the ends of the two wires coming from the junction box by stripping  $\frac{1}{2}$ " of insulation off. Be careful not to nick the copper wire.
9. Match the color of the **TUFFGLO** light wires to the color of the wires coming from the junction box. Twist the wires together, and secure using the supplied wire nuts.
10. Note – the **TUFFGLO** light is double insulated, and does not require a ground wire connection.
11. Move the **TUFFGLO** light fixture into its final position. Carefully tuck the excess wire lengths inside the junction box, making sure that no wires get pinched when the fixture is installed.
12. Using the (2) supplied 6-32 screws, secure the **TUFFGLO** light into position.
13. Go to [www.tuffglo.com](http://www.tuffglo.com) to see installation guides and videos.



WIRING TO A SINGLE TUFFGLO LIGHT



WIRING TO MULTIPLE TUFFGLO LIGHTS



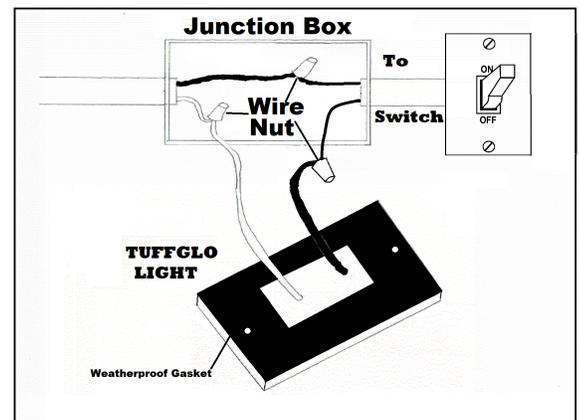
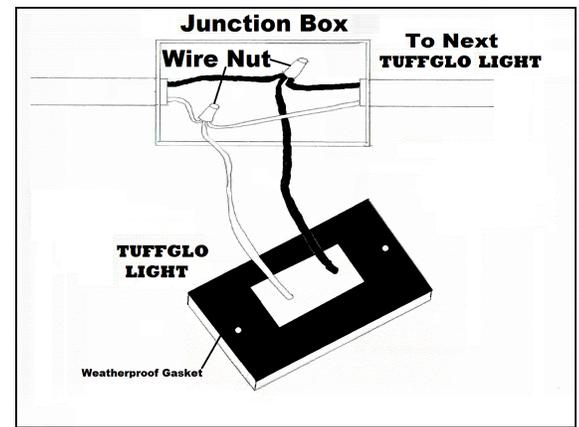
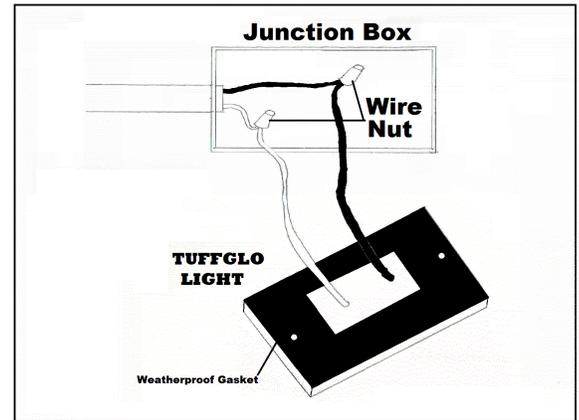
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# HOW TO INSTALL YOUR NEW SIZE A **TUFFGLO**® LIGHT FIXTURE

1. This fixture should only be installed by a qualified person.
2. This fixture is suitable for installation in damp, wet, or dry locations when installed using the supplied weatherproof gasket.
3. This fixture must be mounted to a standard size junction box, outlet box, or wall case.
4. The following tools will be needed; #2 Philips screwdriver, wire cutter/stripper.
5. **Safety first!** Turn off power to the circuit. Do this at the circuit breaker box or fuse box. Verify that power is removed using a test light or voltmeter.
6. For new installations, skip to the next step. If you are replacing an old light fixture with a new **TUFFGLO** light fixture, do the following – remove the old fixture along with any associated trim or brackets. Disconnect the wires from the old fixture keeping track of the wire colors. Note; some old fixtures use a green or bare ground wire. This ground wire is not needed now, so carefully tuck it into the junction box out of the way.
7. Determine how your new **TUFFGLO** light fixture will be connected. See the pictures.
8. Install weatherproof gasket as shown in diagram. The weatherproof gasket must be used when installing in wet or damp locations.
9. Prepare the ends of the two wires coming from the junction box by stripping ½” of insulation off. Be careful not to nick the copper wire.
10. Match the color of the **TUFFGLO** light fixture wires to the color of the wires coming from the junction box. Twist the wires together, and secure using the supplied wire nuts.
11. Note – the **TUFFGLO** light is fully insulated, and does not require a ground wire connection.
12. Move the **TUFFGLO** light fixture into its final position. Carefully tuck the excess wire lengths inside the junction box, making sure that wires do not get pinched when the fixture is installed.
13. Using the (2) supplied 6-32 screws, secure the **TUFFGLO** light into position. Make sure that the gasket extends around all sides of the fixture, and that the screws are sufficiently tightened so there are no gaps.
14. Go to [www.tuffglo.com](http://www.tuffglo.com) to see installation guides and videos.

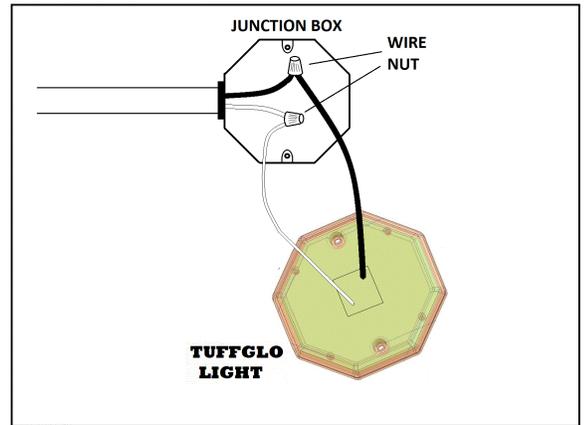


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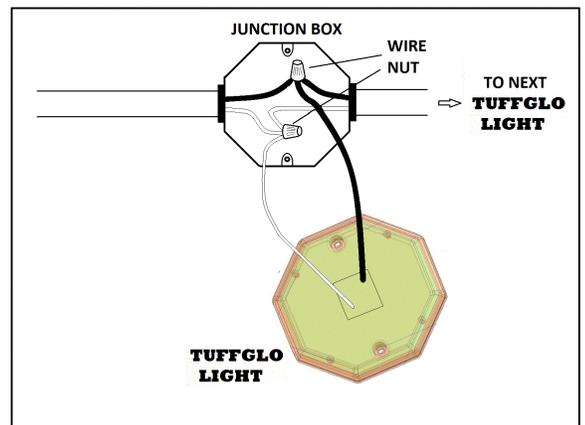
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# HOW TO INSTALL YOUR NEW SIZE B **TUFFGLO**® LIGHT FIXTURE

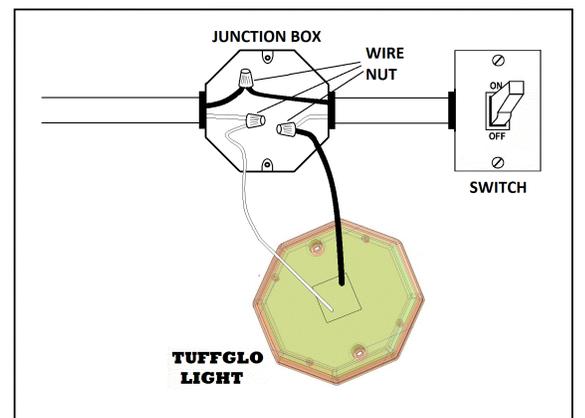
1. This fixture is suitable for installation in dry locations only.
2. This fixture must be mounted to a standard 4" size octagon or round junction box.
3. The following tools will be needed; Philips screwdriver, wire cutter/stripper.
4. **Safety first!** Turn off power to the circuit. Do this at the circuit breaker box or fuse box. Verify that power is removed using a test light or voltmeter.
5. For new installations, skip to the next step. If you are replacing an old light fixture with a new **TUFFGLO** light fixture, do the following – remove the old fixture along with any associated trim or brackets. Disconnect the wires from the old fixture keeping track of the black and white wire. Note; some old fixtures use a green or bare ground wire. This ground wire is not needed now, so carefully tuck it into the junction box out of the way.
6. Determine how your new **TUFFGLO** light fixture will be connected. See the pictures.
7. Prepare the ends of the two wires coming from the junction box by stripping ½" of insulation off. Be careful not to nick the copper wire.
8. Match the color of the **TUFFGLO** light wires to the color of the wires coming from the junction box. Twist the wires together, and secure using the supplied wire nuts.
9. Note – the **TUFFGLO** light is double insulated, and does not require a ground wire connection.
10. Move the **TUFFGLO** light fixture into its final position. Carefully tuck the excess wire lengths inside the junction box, making sure that no wires get pinched when the fixture is installed.
11. Using the (2) supplied 8-32 screws, secure the **TUFFGLO** light into position.
12. Go to [www.tuffglo.com](http://www.tuffglo.com) to see installation guides and videos.



**WIRING TO A SINGLE TUFFGLO LIGHT**



**WIRING TO MULTIPLE TUFFGLO LIGHTS**



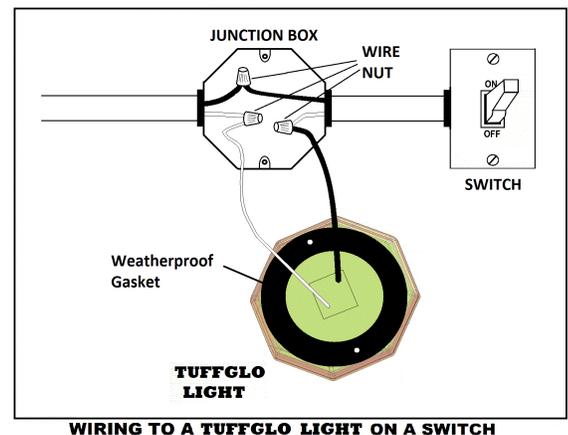
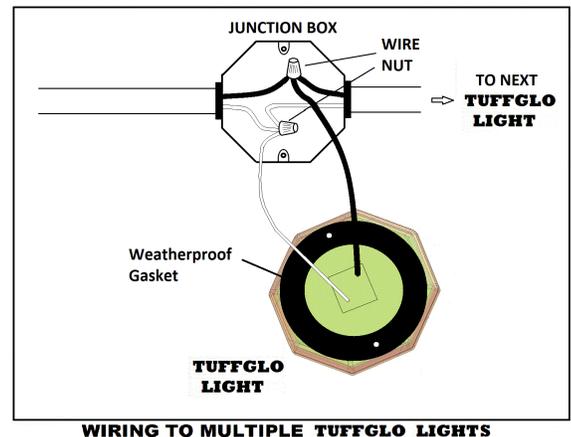
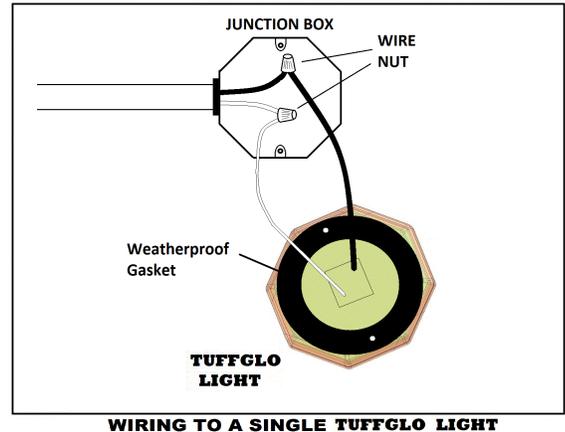
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# HOW TO INSTALL YOUR NEW SIZE B **TUFFGLO**® LIGHT FIXTURE

1. This fixture is suitable for installation in damp, wet, or dry locations.
2. This fixture must be mounted to a standard 4" size octagon or round junction box.
3. The following tools will be needed; Philips screwdriver, wire cutter/stripper.
4. **Safety first!** Turn off power to the circuit. Do this at the circuit breaker box or fuse box. Verify that power is removed using a test light or voltmeter.
5. For new installations, skip to the next step. If you are replacing an old light fixture with a new **TUFFGLO** light fixture, do the following – remove the old fixture along with any associated trim or brackets. Disconnect the wires from the old fixture keeping track of the black and white wire. Note; some old fixtures use a green or bare ground wire. This ground wire is not needed now, so carefully tuck it into the junction box out of the way.
6. Determine how your new **TUFFGLO** light fixture will be connected. See the pictures.
7. Install weatherproof gasket as shown in diagram. The weatherproof gasket must be used when installing in wet or damp locations.
8. Prepare the ends of the two wires coming from the junction box by stripping ½" of insulation off. Be careful not to nick the copper wire.
9. Match the color of the **TUFFGLO** light fixture wires to the color of the wires coming from the junction box. Twist the wires together, and secure using the supplied wire nuts.
10. Note – the **TUFFGLO** light is double insulated, and does not require a ground wire connection.
11. Move the **TUFFGLO** light fixture into its final position. Carefully tuck the excess wire lengths inside the junction box, making sure that no wires get pinched when the fixture is installed.
12. Using the (2) supplied 8-32 screws, secure the **TUFFGLO** light into position.
13. Go to [www.tuffglo.com](http://www.tuffglo.com) to see installation guides and videos.

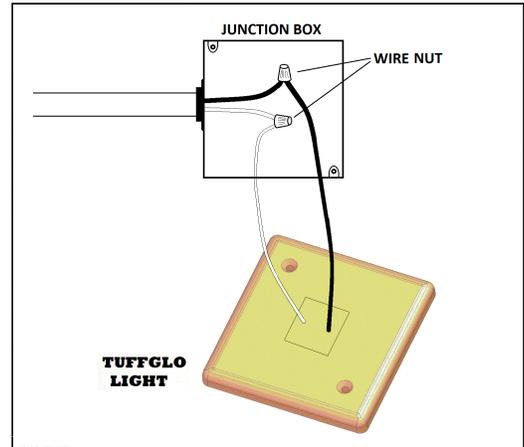


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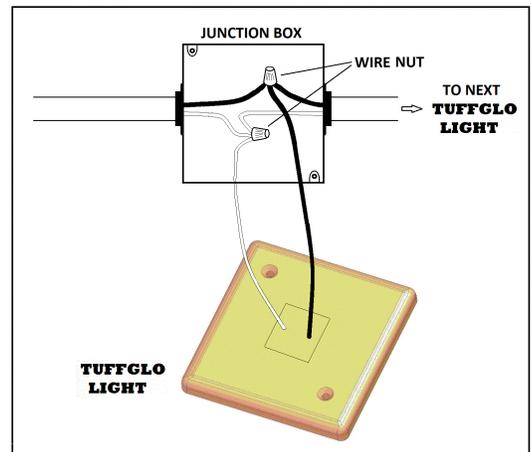
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# HOW TO INSTALL YOUR NEW SIZE H **TUFFGLO**® LIGHT FIXTURE

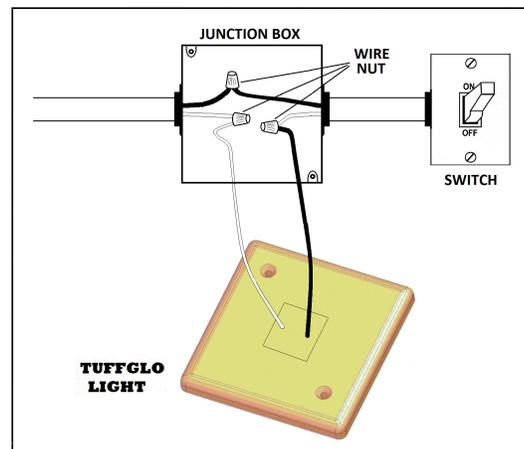
1. This fixture is suitable for installation in dry locations only.
2. This fixture must be mounted to a standard 4" square junction box.
3. The following tools will be needed; Philips screwdriver, wire cutter/stripper.
4. **Safety first!** Turn off power to the circuit. Do this at the circuit breaker box or fuse box. Verify that power is removed using a test light or voltmeter.
5. For new installations, skip to the next step. If you are replacing an old light fixture with a new **TUFFGLO** light fixture, do the following – remove the old fixture along with any associated trim or brackets. Disconnect the wires from the old fixture keeping track of the black and white wire. Note; some old fixtures use a green or bare ground wire. This ground wire is not needed now, so carefully tuck it into the junction box out of the way.
6. Determine how your new **TUFFGLO** light fixture will be connected. See the pictures.
7. Prepare the ends of the two wires coming from the junction box by stripping ½" of insulation off. Be careful not to nick the copper wire.
8. Match the color of the **TUFFGLO** light wires to the color of the wires coming from the junction box. Twist the wires together, and secure using the supplied wire nuts.
9. Note – the **TUFFGLO** light is double insulated, and does not require a ground wire connection.
10. Move the **TUFFGLO** light fixture into its final position. Carefully tuck the excess wire lengths inside the junction box, making sure that no wires get pinched when the fixture is installed.
11. Using the (2) supplied 8-32 screws, secure the **TUFFGLO** light into position.
12. Go to [www.tuffglo.com](http://www.tuffglo.com) to see installation guides and videos.



WIRING TO A SINGLE TUFFGLO LIGHT



WIRING TO MULTIPLE TUFFGLO LIGHTS



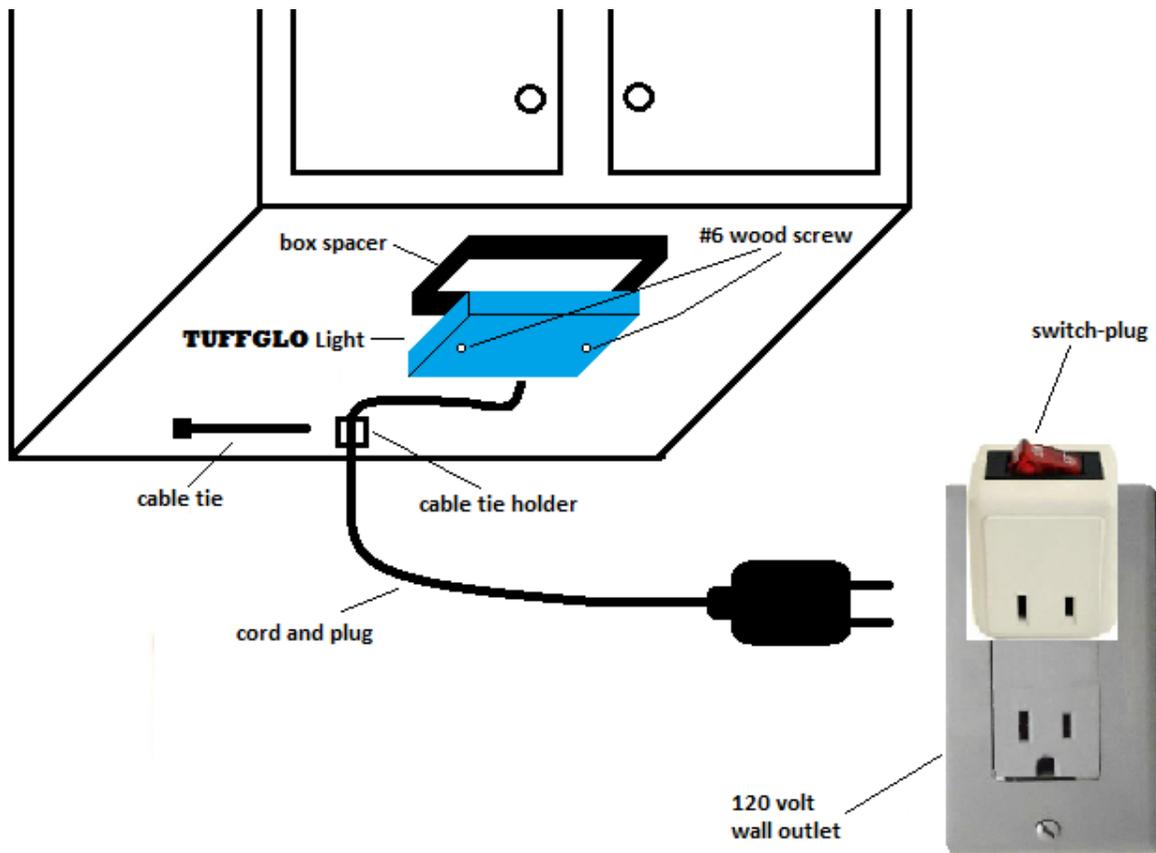
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# HOW TO INSTALL YOUR NEW SIZE K UNDER-CABINET **TUFFGLO**® LIGHT FIXTURE

1. This fixture is suitable for installation in dry locations only.
2. The following tools will be needed; #2 Philips screwdriver.
3. **Safety first!** Do not plug in the **TUFFGLO** light during the installation process.
4. Position the **TUFFGLO** light underneath the cabinet. Place the box spacer between the underside of the cabinet and the **TUFFGLO** light. Make sure to face the notched side of the box spacer toward the back of the cabinet.
5. Secure the **TUFFGLO** light to the cabinet using the (2) supplied #6 wood screws. Make sure to pass the cord through the notch on the Box Spacer.
6. Insert the switch-plug into the 120 volt wall outlet. Plug the cord from the **TUFFGLO** light into the switch-plug. If your 120 volt wall outlet is already on a switch, you may not need the switch-plug.
7. Use the cable tie and cable tie holder to secure the cord to the underside of the cabinet. Note; the cable tie holder is adhesive backed. Make sure that the surface is clean and dry before applying.
8. Throw the switch on the switch plug and the **TUFFGLO** light should now illuminate.
9. Go to [www.tuffglo.com](http://www.tuffglo.com) to see installation guides and videos.



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