

## What is an IP Rating?

IP stands for Ingress Protection, and is a European standard developed by the European Committee for Electro Technical Standardization. The IP rating normally has two numbers: such as IP68



1. Protection from solid objects or materials
2. Protection from liquids (water)

The first number relates to solids, the second number relates to liquids as in the table below.

**IP Ratings - A Helpful Guide** - All Outdoor Lighting Products have an IP (Ingress Protection) Rating  
Please see the table below for an accurate guide.

First Number Refers to protection against solids	Meaning	Second Number Refers to protection against liquids	Meaning
0	No Protection	0	No Protection
1	Protected against solid objects over 50mm (e.g. accidental touch by the hand)	1	Protected against water falling vertically
2	Protected against solid objects over 12mm (e.g. accidental touch by the finger)	2	Protected against direct sprays from up to 15 degrees from vertical
3	Protected against solid objects over 2.5mm (e.g. tools, wires)	3	Protected against direct sprays up to 60 degrees from vertical
4	Protected against solid objects over 1mm (e.g. small wires)	4	Protected against sprays from all directions. Limited ingress permitted.
5	Protected against dust – limited ingress (no harmful deposit)	5	Protected against low pressure jets of water from all directions. Limited ingress permitted.
6	Totally protected against all dust	6	Protected against strong jets of water. Limited ingress permitted. E.g. acceptable for use on shipdecks
		7	Protected against the effects of temporary immersion in water
		8	Protected against the effects of continuous immersion in water.

For all lights, you need to consider the IP rating to be sure you can place it where you want to place it, ensure it has enough protection from both solids and liquids.

All of the lights we sell for everyday outdoor use are at least IP44 rated. This means that they are protected from splashes. Floor and decking lights need a much greater degree of protection as water can pool on top of them (e.g. IP67 Rating) Also lights designed to be in water, ponds, etc, need the highest level of protection e.g. IP68 to ensure once they are submerged that water cannot get inside and damage them.

Any electrical products not showing an IP rating are not rated for general outdoor use. This doesn't mean you can't run something temporarily (e.g. using the vacuum cleaner in your car).

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