

A family of four lamps for industrial plant growth. Two different models are manufactured:

- entry-level: the lamp is on whenever the AC voltage is supplied;
- advanced (june 2019): the lamp belongs to a

network, either **wifi** or **LORA**, a base station allows the user to coordinate different lamps, in order to create customised growth cycles; in the **wifi** case, the lamp can also work as an hotspot

In the advanced model, the **LORA** option allows communication in large structures, such as industrial plants and greenhouses. Tests carried out by Acies have shown that distances up to 6.7km in open field are possible, as well several reinforced concrete floors and metal doors can be got through.

The emitted light is suitable for the growth of any plant, in any phase of its life. The photo-period needs anyway to be adjusted, depending on plant needs.

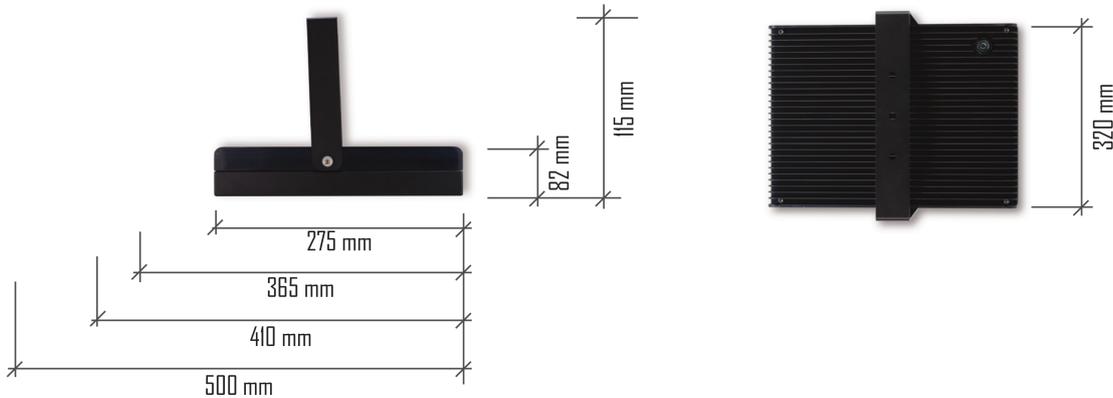
## Warning!

The emitted light can be annoying to people, and the light sources can not be watched directly. The installation shall be done considering every ergonomic and health issue.

## Technical specifications

Feature	values				unit
	1	2	3	4	
<b>Size</b>					
Power	80	120	160	240	W
Input voltage	90~305				Vac
Input frequency	47~63				Hz
Power factor	97				%
Inrush current (230Vac, cold start)	60				A
Emission angle	90				°
Covered area (h=2.9m)	10	10	11	12	m <sup>2</sup>
Working temperature	-35~+65				°C
Length	275	365	410	500	mm
Width	320				mm
Thickness	82				mm
Overall height	115				mm
Weight	7.0	8.6	9.5	12.0	kg

## Technical drawing



**Acies** designs and manufactures in Italy, in its factory in Leno (BS). Besides standard products, customisations and *partnerships* with industrial customers are possible. The emission spectrum and other aspects regarding industrial plant or laboratory integration, such as industry 4.0 networking, either wired or wireless, need to be discussed on a case-by-case basis.