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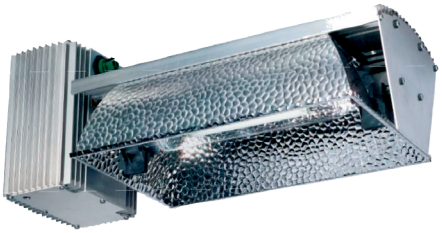

Luninaire

Sunspot

Tall plant Reflector

More Growth Light for tall plants

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The design of the 1000W Sunspot Tall plant Reflector ensures the lamp (light source) is being cooled to the lowest possible temperature and the lamp therefore has a much longer survival time than competing products. The Sunspot luminaire has the best cooling of any module in the market according to Philips.
Because of the Sunspot luminaire having a very low temperature and hence TC point, the rate of surviving units is drastically increased. Philips has a strong requirement, when it comes to the quality of the products they sell and the TC point of the unit is measured around 42°C – the lowest in the market.
In the table below is presented information on the level of surviving modules after a certain amount of operating hours:

Tcase	**Max failure rate per 1.000 hrs**	**Survivors at 50. 000 hours**
70°C	0,50 %	75 %
60°C	0,25 %	88 %
50°C	0,13 %	94 %
42°C	**Sunspot 1.000W module**	
40°C	0,06 %	97 %

More Growth Light for vegetables and cannabis

With the Sunspot Tall plant Reflector more growth light is obtained on a larger area of the plant compared to competing products. The reflector is developed specifically to create as much light as possible for taller plants such as tomatoes, cucumber and cannabis. With the products design the growth light is focused not only on the higher placed leaves, but it also lets the light reflect to the lower leaves. This leads to a significantly larger amount of growth light reaching the plants and increasing photosynthesis.

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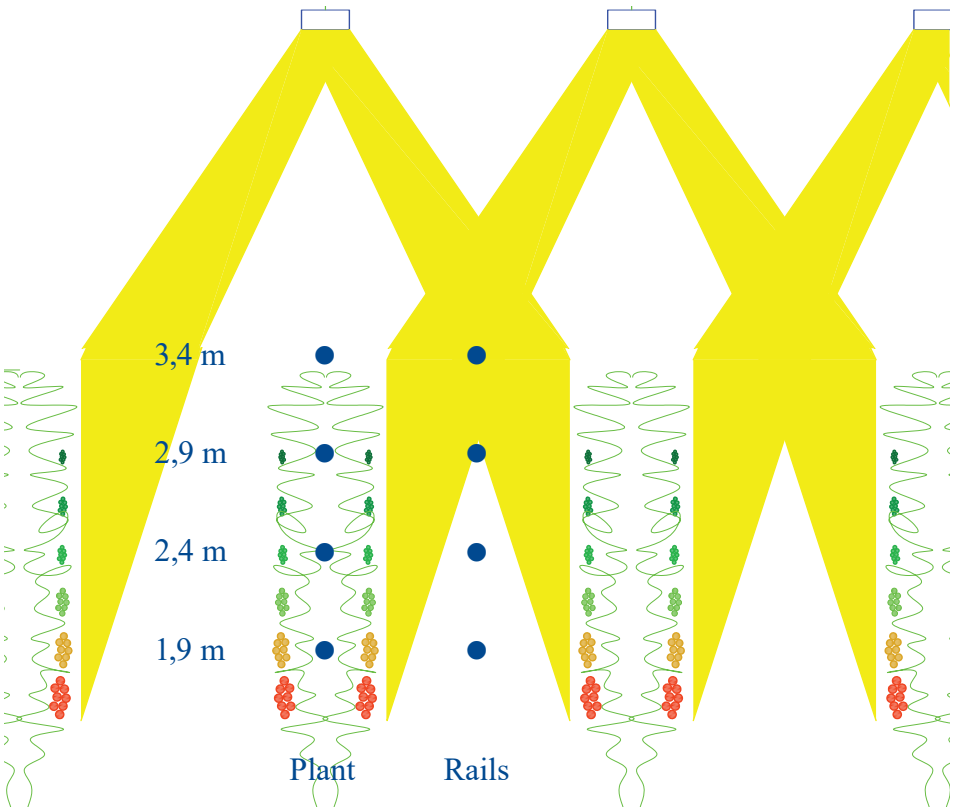
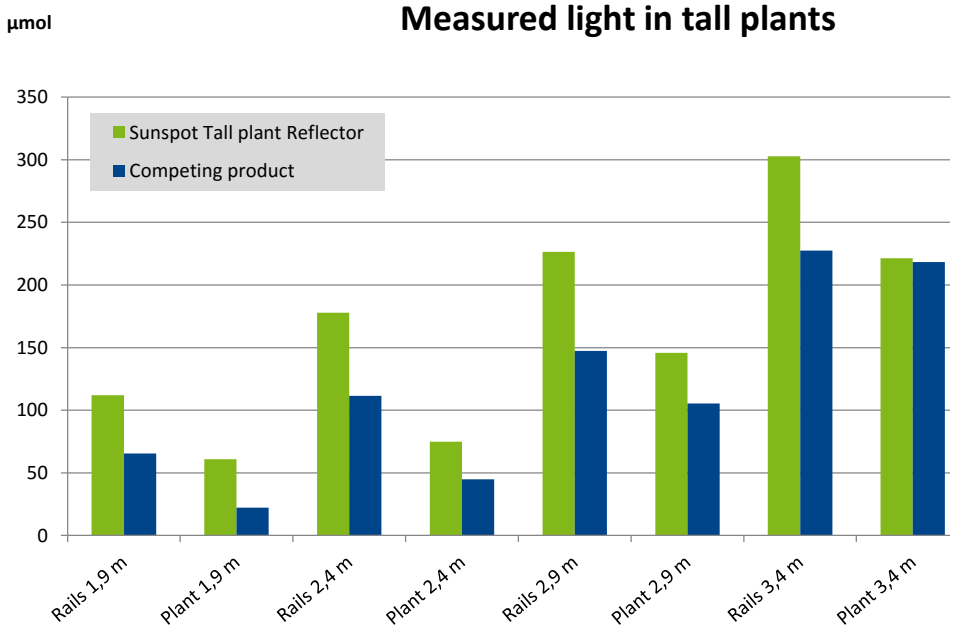
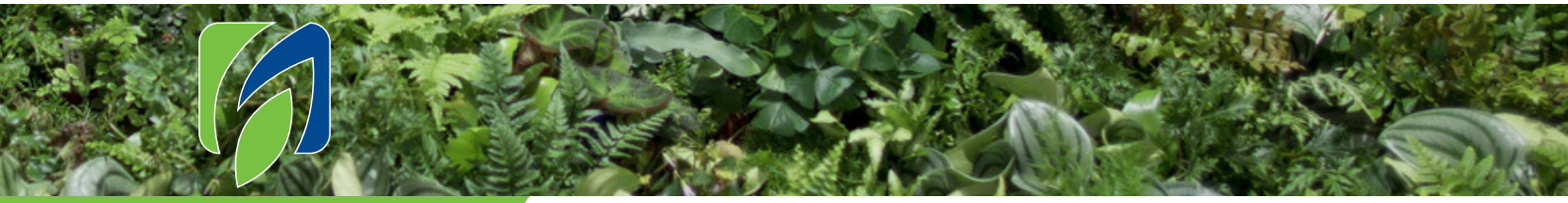
The increased amount of growth light is obtained because of the asymmetrical reflection as seen in the illustration:

Measurement area and light pattern



The figure below shows the difference between the Sunspot Tall plant Reflector and a comparable competing product. The statistics build on hundreds of measurements on both plants and rails as seen in the above figure. On average almost 20% more growth light reaches the plants.





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Sunspot
m/Tall plant Reflector

Facts	Sunspot **600 W / 400 V**	Sunspot **1000 W / 400 V**
Power Consumption	1,6 Amp.	2,6 Amp.
Power taken up	635 W	1032 W
Cos φ	> 0,98	0,98
Weight	4,0	4,2
Measures	477×232×190	556×232×190

FOR MORE INFORMATION CONTACT

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