

# HORTILED®

THE NEW STANDARD IN GROW LIGHT



3.5  $\mu\text{mol}/\text{J}$

## HORTILED® Top 120v19

Versatile fixture for LED top lighting



**HORTILUX**  
SCHRÉDER

THINK AHEAD **GROW SMART**



## HORTILED® Top I20vI9

LED lighting is changing the face of greenhouse horticulture with the potential applications increasing at a phenomenal rate. The main benefit of LEDs over existing HPS systems is the efficiency with the conversion of electricity into light, making LEDs more energy-efficient. LEDs also give the user more application options thanks to continuously variable dimmability and the endless variation in colour spectra. Finally, LEDs have the great advantage that they emit less heat, making it easier to control the greenhouse temperature.

As the innovator in the grow light market, Hortilux is also in the vanguard of LED development. Hortilux has developed a complete LED product line, based on its expertise and many years of experience in the lighting technology sector. The HORTILED® product line comprises three products: HORTILED® Top I20vI9, HORTILED® Inter and HORTILED® Multi, all with a distinctive and characteristic Hortilux design.

### **HORTILED® TOP**

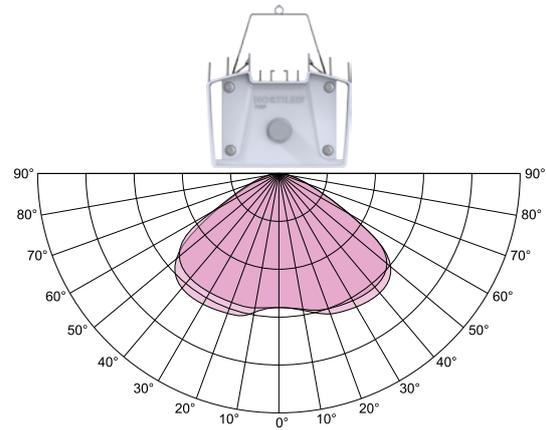
The three products in the HORTILED product line each have a specific application. The HORTILED Top I20vI9 is the most versatile fixture and is suitable for top lighting of all types of crop.

### **MOST EFFICIENT TOP LED FIXTURE**

HORTILED Top I20vI9 is the most efficient LED fixture on the market. The HORTILED Top I20vI9 has an

efficiency level of 3.5  $\mu\text{mol}/\text{Joule}$ , while the most efficient electronically controlled HPS systems currently achieve 1.9  $\mu\text{mol}/\text{Joule}$ . This is an 84% efficiency increase compared to HPS 1000W. This increased efficiency brings direct savings on your energy bill. Thanks to its higher efficiency, the HORTILED Top I20vI9 produces significantly less heat. This makes it possible to light at a higher intensity with minimum impact on the greenhouse temperature.

*The HORTILED Top 120v19 is available with a 120° radiation pattern for an optimal balance between outstanding uniformity and good light penetration into the crop.*



#### **HIGHEST LIGHT OUTPUT**

The light output of the HORTILED Top 120v19 is 1160  $\mu\text{mol/s}$ , which is higher than comparable passively cooled LED fixtures on the market. You therefore need fewer fixtures to achieve the same light intensity. This means not only a lower investment, but also lower installation costs. Thanks to the smaller number of fixtures, there is also less light loss due to shadow.

#### **OPTIMUM THERMAL DESIGN**

The special design of the compact aluminium housing provides maximum cooling of the fixture, making active cooling unnecessary. The absence of an active cooling system saves on installation costs. Optimum cooling also minimises the risk of fixture failure, thus increasing reliability.

#### **DIMMABLE BETWEEN 0-100%**

Unique about the HORTILED Top 120v19 fixtures is the optional dimmability between 0-100%. The desired light intensity is controllable from the climate computer or with the dimcontroller. The optional connection with the climate computer dims the HORTILED Top 120v19 when there is enough daylight and intensifies when the daylight intensity drops. This way you achieve an optimal and constant light sum for your crop. This leads to an optimal growth result and a more controlled use of energy.

#### **PROVEN COLOUR SPECTRA**

The HORTILED Top 120v19 is available with various colour spectra which have been defined on the basis of extensive research into colour combinations that deliver optimum results. We will work with you to identify the most suitable spectrum for your crop. Naturally, it is also possible to develop a custom project-based LED recipe.

#### **EASY TO INSTALL**

The HORTILED Top 120v19 is easy to install on both C-profile and trellis. This means that a 'plug-and-play' switch from HPS to LEDs can take place without any problems. The fixture is available for commonly used Greenhouse voltage of 400V (nom.), which requires minimum effort for installation purposes.

Hortilux looks at grow light in a different way, putting the client's yield at centre stage. Hortilux is the leading specialist, focusing on total solutions for grow light systems in which advice, design, installation and service fit together seamlessly. Its starting point is to translate your situation and requirements into an optimised grow light solution that will increase your yield per square metre. Hortilux is happy to advise you about opportunities for using our HORTILED product line in your specific situation.

TECHNICAL SPECIFICATIONS  
**HORTILED TOP 120V19**

<b>Input</b>	400 V AC	<b>Radiation angle</b>	120°
	50-60 Hz		<b>Colour spectra</b>
<b>Power factor</b>	> 0,96	Red/White (LB/MB/UHB)	
	<b>Power (nominal)</b>	336 Watt	
<b>Flux with R/B (LB)</b>		1160 µmol/s	
	<b>Efficiency with R/B (LB)</b>	3.5 µmol/J	
<b>Size (LxWxH)</b>		966 x 118 x 95 mm	
	<b>Dimmable (optional)</b>	Between 0-100% via	LED recipe
		DALI protocol	<b>IP Classification</b>

**LEGEND**

- LB = Low Blue
- MB = Medium Blue
- HB = High Blue
- UHB = Ultra High Blue



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