

Light is OSRAM

Light Recipe for Best Basil Taste during Wintertime

With our proven light recipes, we want to provide you a starting point for your own research. We tested the recipe with PHYTOFY® RL in OSRAM's Smart Farming laboratory, a fully controllable climate chamber. Getting tasty aromatics during wintertime is a tough challenge, especially if you do not have the perfect light recipe. Together with a professional sensory panel, we found the perfect composition of light for the most flavorful basil for winter production in a vertical farm.

Tasty Basil in Wintertime



The following recipe focuses on producing aromatic and healthy plants in your vertical farm.

Growth Recipe

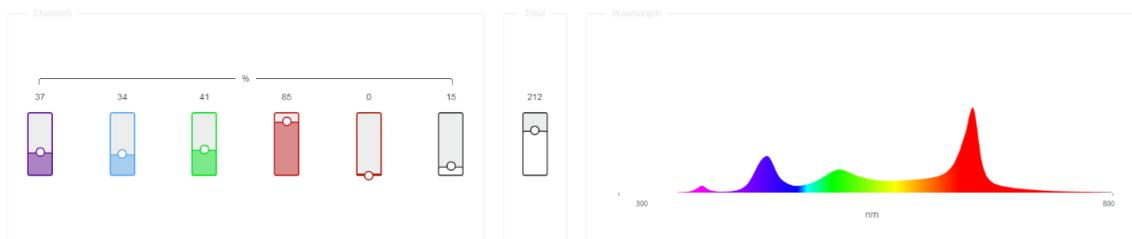
Crop	<i>Ocimum basilicum</i> 'Keira'
Light intensity	~300 $\mu\text{mol m}^{-2} \text{s}^{-1}$ *
Photoperiod	18 day / 8 night
Temperature	24 °C day / 22 °C night
Humidity	60 - 70 %
Growth Cycle	~40-50 days

*At a distance from cultivation surface to fixture of 406 mm (16')

Spectrum

UV	37
Blue	34
Green	41
Hyper Red	85
Far Red	0
Warm White	15

Values are in %



Please note:

This information is based on our evaluations and can only be regarded as general guidance. While we have made every attempt to ensure that the information has been obtained right, please make sure that you check for your application if the data and information provided fits to your use case and provides the intended results.

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Smart Farming

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