



# Production improvements with Philips LED lighting

## The challenge

Canadian Valley Growers (CVG) previously relied on HPS lights for their supplemental lighting needs. However, with a desire to produce year-round, they began to investigate other lighting options including HPS-LED hybrid and a full LED solution. Bill Brar, CVG co-owner, was most interested in a lighting solution that would not only efficiently extend their growing season, but also help CVG produce higher quality crops, and reduce operating costs.

## Key benefits

- Almost 30% reduction in crop time
- Heavier root mass and heavier leaf mass
- Better leaf color

“

The results have been fantastic, support has been great. It's been a good experience.”

Bill Brar, Co-owner

## The solution

Brar participated in a Signify-hosted Leafy Greens Community Event in Europe in 2019 where he met other growers already using Philips LED grow lights. The event also gave Brar an opportunity to discuss his needs and learn more from Signify's team of plant specialists.

A custom light plan was designed using the regular output version of Philips LED toplighting with light levels targeted at 220  $\mu\text{mol}$ s for CVG's propagation area, and 110  $\mu\text{mol}$ s for the finished production area.





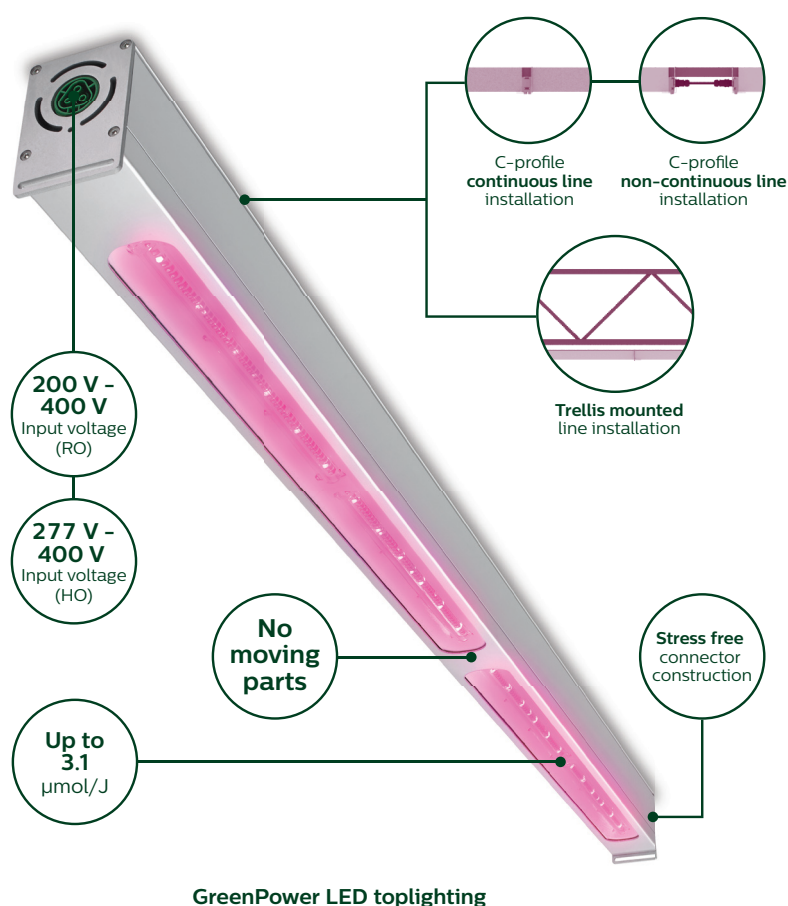


### Benefits

In addition to experiencing an almost 30% reduction in crop time, CVG noted several qualitative improvements especially in their propagation area. The improvements include stronger roots, heavier root mass and heavier leaf mass, and better leaf color. Asked about the difference of growing under LEDs and HPS, Brar commented about making the switch to LED grow lights, “before we were propagating with HPS and the difference in propagation has been day and night.” He added, “I absolutely recommend Philips LED lighting. The results have been fantastic, support has been great. It has been a good experience.”

“Before we were propagating with HPS and the difference in propagation [under LEDs] has been day and night.”

**Bill Brar**, Co-owner



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Document order number: 4422 952 16373  
02/2021  
Data subject to change

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