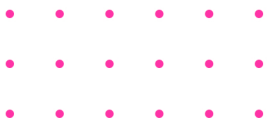
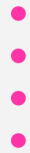


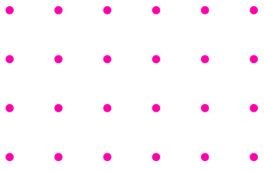


Horticulture

LED Lighting Solutions



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About Us

We provide LED Lighting Solutions for farmers who do In door Farming, Vertical Farming, or Greenhouses Lumesmart's innovative LED products offer selection of colour and wavelength specific lights to promote growth in different produce varieties adjustable illumination intensity and helps to control dust keeping food fresh for longer Our energy-saving products are listed in the Ontario Made, and our DLC-certified products are allowing farmers to earn retrofit from the government.



Our Vision

Making Peace by Saving Nature
from the Effects of
Global Warming



Reducing carbon footprint by eco-friendly Lumesmart LED lighting

LumeSmart can help the greenhouse sector by providing energy-efficient and eco-friendly LED products. These solutions enable growers to reduce their carbon footprint and save on energy costs.

Customized LED lighting solutions

LumeSmart can offer lighting systems custom-suited to the crop-specific needs of their clients, offering better performance compared to HPS lighting solutions of LED lighting systems

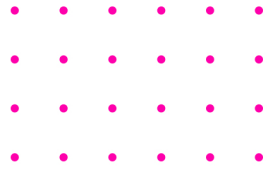


Adjustable and personalized LED lighting solutions

Lumesmart LED systems offer customizable lighting solutions, through adjustable intensity and color spectrum, ideal for custom light formulations commonly known as 'light recipes'

Government support through grants

The Federal and Provincial governments have both shown general support for the adoption of LED lighting systems as a method to reduce electricity consumption in the greenhouse industry. LumeSmart can leverage these grants to help offset the cost of switching to LED lighting making it a better financial decision for growers



Best Innovative LED Solutions for Your Horticulture Industry

We are providing the Best innovation solutions for Indoor Framing Greenhouses, Vertical Framing industries Based on our Research partnership with Niagara College Business & Commercialization Innovation Centre



Innovative Lighting Solutions
Government Support



Professional Engineering Team
After Sale Support





HL11 – Horti Green

Horti-Green can be used for complete replacement of florescent T5 fixtures or HPS/metal halide lights for inside vegging to grow moms, clones, or any starts in a completely controlled environment.

System Efficacy

2.4 $\mu\text{mol}/\text{J}$

IP Rating

IP65

Dimming

No Dimming

Certificate

ETL, CE, RoHs



Key Features



- Simple and stylish, ultra slim design
- Linkable solution, save labor cost and installation cost easy to connect
- Light weight, easy maintenance in both transportation to meet your budget



Durable

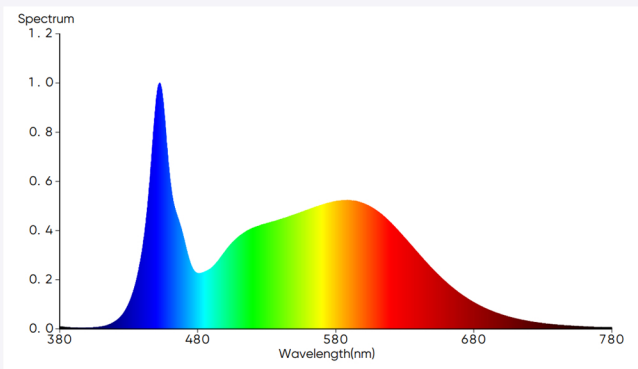
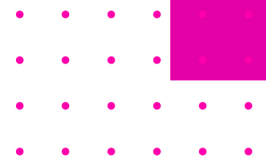


IP65



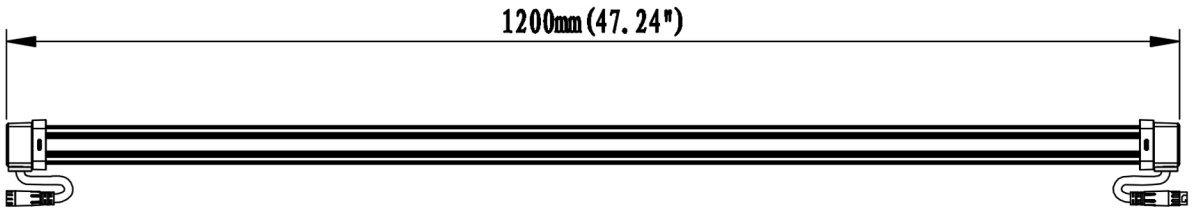
Product Specifications

Item No	HL11-20	HL11-30
Power	20 W	30 W
PAR Output	48 $\mu\text{mol/s}$	71 $\mu\text{mol/s}$
ePAR Output	50 $\mu\text{mol/s}$	72 $\mu\text{mol/s}$
AC Input Voltage	100-240 V AC / 100-277 V AC, 50/60 Hz	
Radiation Angle	120°	
Net Weight	0.6 kg / 1.3 lbs	
Gross Weight	11.8 kg / 26 lbs 18 pcs per carton	
Dimensions	1200 x 48 x 33 mm (47.24" x 1.89" x 1.3")	

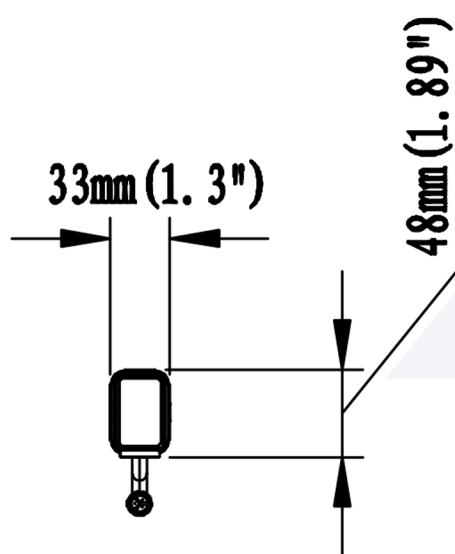


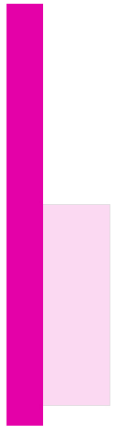
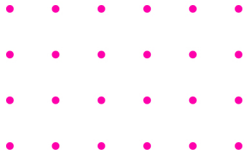
Spectrum Solution

Horti-Green has a full-spectrum white light that mimics the sun, making it exactly what your plants crave. The spectrum is based on cooler (blue spectrum) white light, making it ideal for the vegetative and cloning stages of plant growth. The spectrum comes very close to natural daylight, truly simulating what plants have adapted to over many generations. It is especially well suited for seedling.



Product Dimensions





HL05 – Horti SingleTube

Horti-Spec Single Tube is designed for growth rooms and chambers, tissue culture and vertical farming applications

With excellent light

uniformity when placed right above the canopy, it is ideal for vertical farming



System Efficacy

1.55 $\mu\text{mol}/\text{J}$

Dimming

0~10 V Dimming

IP Rating

IP65

Certificate

ETL, CE, RoHs



Key Features



- Daisy chain solution
- True sunlight spectrum
- Excellent heat dissipation performance
- External driver, good for reliable and maintainable performance



PC cover

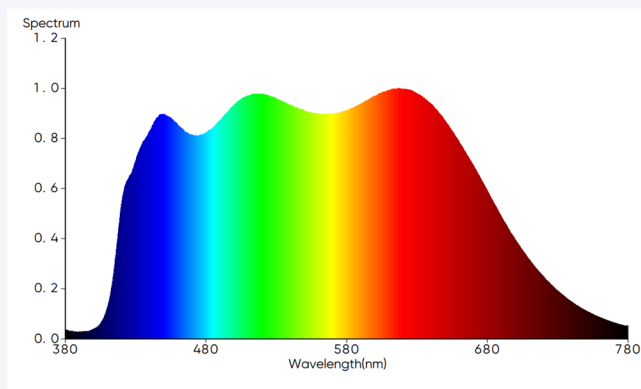


IP65



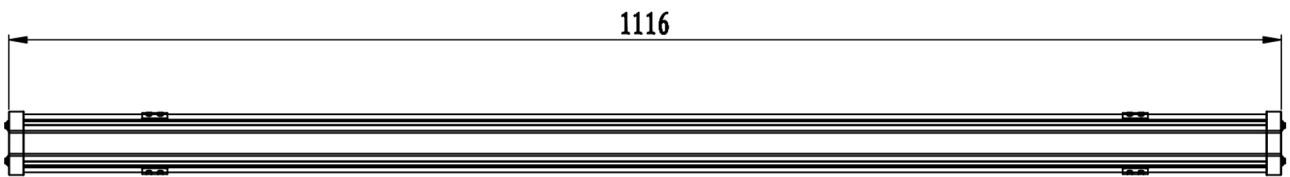
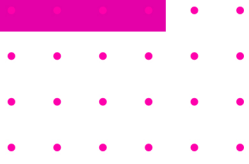
Product Specifications

Item No	HL05-40	HL05-75	HL05-90
Power	40 W	75 W	90 W
PAR Output	62 $\mu\text{mol/s}$	116 $\mu\text{mol/s}$	140 $\mu\text{mol/s}$
ePAR Output	67 $\mu\text{mol/s}$	122 $\mu\text{mol/s}$	148 $\mu\text{mol/s}$
AC Input Voltage	100-240 V AC / 100-277 V AC, 50/60 Hz		
Radiation Angle	120°		
Net Weight	0.8 kg / 1.8 lbs		
Gross Weight	6.4 kg / 14 lbs 8 pcs per carton		
Dimensions	1116 x 55.8 x 35.1 mm (43.9" x 2.2" x 1.4")		

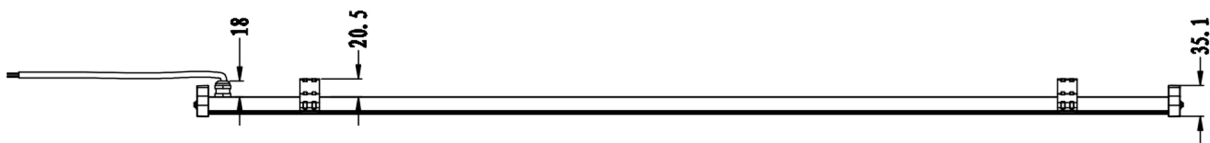
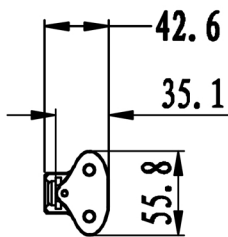


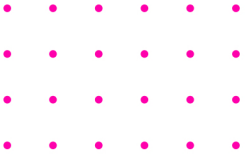
Spectrum Solution

A balanced range of wavelengths from UV to FR suitable for all growth stages. It has been tested on and is suitable for most plant species cultivated worldwide. SUNLIKE spectrum works as both sole source or supplemental light.



Product Dimensions





HL09 – Horti Sky

Horti-Sky provides periods of reduced intensity, which allows regeneration of the photosynthetic apparatus and ensures better preparation for the efficient use of light of a higher intensity. In this way, energy management within the plant becomes more efficient



System Efficacy

2.46 $\mu\text{mol}/\text{J}$

Dimming

0~10 V Dimming

IP Rating

IP65

Certificate

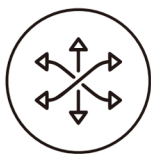
ETL, CE, RoHs



Key Features



- Up to 80% higher energy efficiency compared to HPS / MH and up to 50% in comparison to constant LED lighting
- Easy to clean with long lifespan
- IP65 rating make it withstand even the toughest growing environments



Versatile use



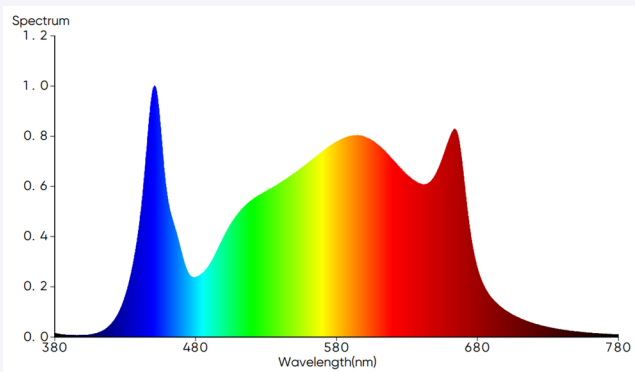
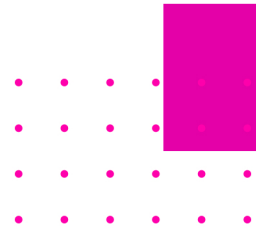
IP65





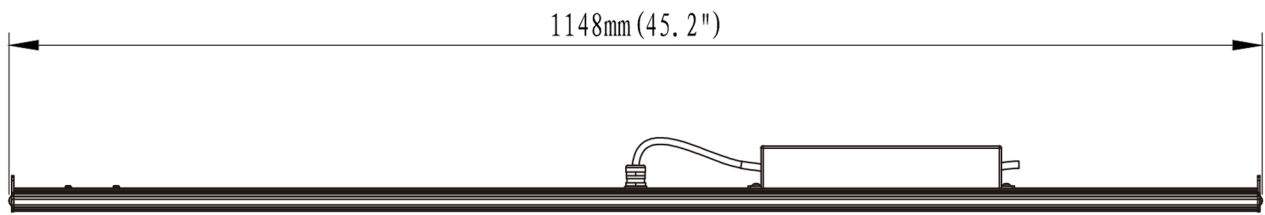
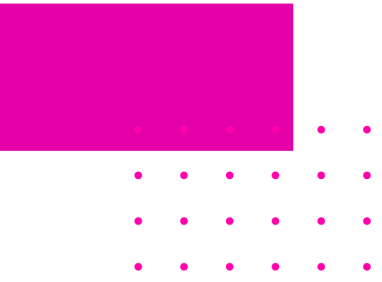
Product Specifications

Item No	HL09-150
Power	150 W
PAR Output	369 $\mu\text{mol/s}$
ePAR Output	377 $\mu\text{mol/s}$
AC Input Voltage	100-240 V AC / 100-277 V AC / 277-480 V AC, 50/60 Hz
Radiation Angle	120°
Net Weight	2.1 kg / 5.1 lbs
Gross Weight	3 kg / 6.6 lbs
Dimensions	1148 x 72 x 60 mm (45.2" x 2.83" x 2.36")

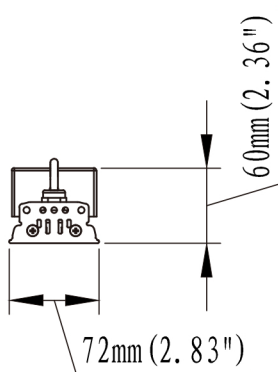


Spectrum Solution

This enhanced full spectrum produces the fastest flowering for plant species grown indoors under artificial lighting. The spectrum most closely mimics the sun and can meet the needs of both high and low DLI crops



Product Dimensions





HL03 – Horti Reina

Horti-Reina is a greenhouse supplemental intercanopy light being angled with respect to the horizontal, that 120° light is only accessible at the highest part of the crop because of the density of the leaves of the plant Intercanopy lighting spreads the light more evenly over the canopy and in the middle part of the crop which increases flower development

System Efficacy

2.34 $\mu\text{mol}/\text{J}$ 3.0 $\mu\text{mol}/\text{J}$

IP Rating

IP65

Dimming

0~10 V Dimming

Certificate

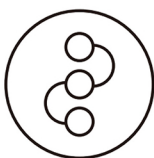
ETL, CE, RoHs



Key Features



- Daisy chain design helps save installation time and reduce total installation cost in commercial projects
- IP65 rated makes LED intercanopy operate well in greenhouse indoor or other high humidity environments
- Double-sided lighting design, minimizes light interception and keeps the lower canopy to get optimal and uniform light
- Inverted triangle structure minimizes the shadow on the plant canopy which is caused by the light from the top



Daisy chain



IP65



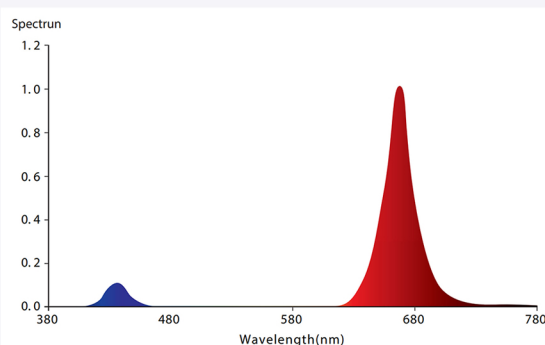
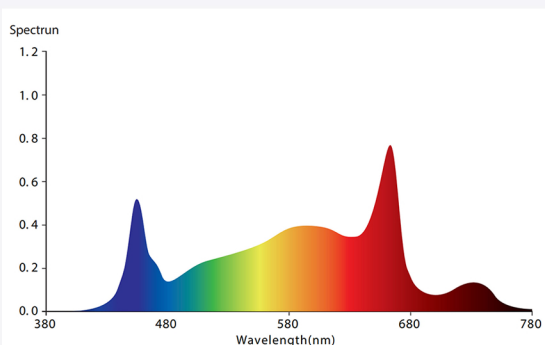
Product Specifications

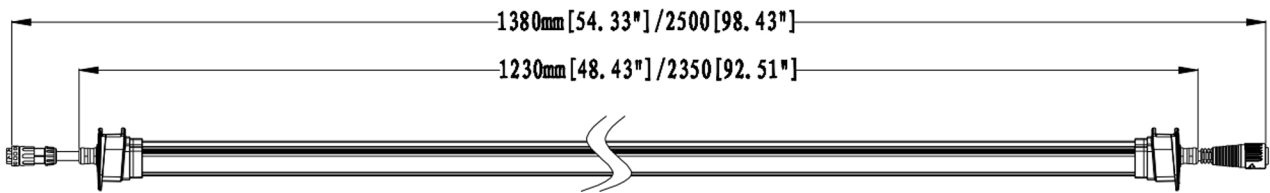
Item No	HL03-75	HL03-150
Power	75 W	150 W
PAR Output	176 $\mu\text{mol/s}$ 225 $\mu\text{mol/s}$	351 $\mu\text{mol/s}$ 450 $\mu\text{mol/s}$
ePAR Output	194 $\mu\text{mol/s}$ 226 $\mu\text{mol/s}$	387 $\mu\text{mol/s}$ 452 $\mu\text{mol/s}$
AC Input Voltage	100-240 V AC / 100-277 V AC / 277-480 V AC, 50/60 Hz	
Radiation Angle	120°	
Net Weight	1.5 kg / 3.3 lbs	2.5 kg / 5.5 lbs
Gross Weight	7.0 kg / 15.4 lbs	12.0 kg / 26.5 lbs
	4 pcs per carton	
Dimensions	1380 x 65 x 69 mm (54.33" x 2.56" x 2.72")	2500 x 65 x 69 mm (98.43" x 2.56" x 2.72")

Spectrum Solution

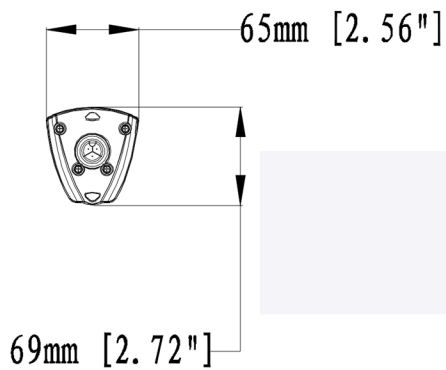
450nm blue light plays an important role in the early stage of plant growth and helps to establish a developed root system. With a peak wavelength of 730nm is designed to boost photosynthetic light levels in flowering stage, far red light will create a competitive response in plants, assisting in the formation of trichomes

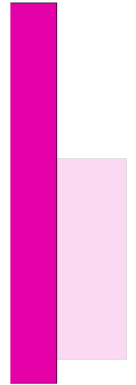
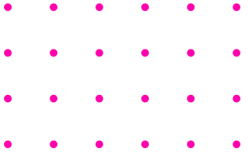
HL03-P03-00 features two narrow spectral wavelength that maximize energy efficiency aiming to further reduce energy cost and operational expense





Product Dimensions





HL06 – Horti King

Horti-King is a full-cycle top lighting solution for cannabis plants, the simplicity of installation and use make it an ideal solution for achieving high and uniform lighting levels in greenhouse and indoor sole-source applications.



System Efficacy

2.0 $\mu\text{mol}/\text{J}$ 2.8 $\mu\text{mol}/\text{J}$

Dimming

0~10 V Dimming

IP Rating

IP65

Certificate

ETL, CE, RoHs



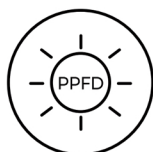
Key Features



- Designed with tempered glass cover, resistant to all kinds of corrosion from nutrient solutions and pesticide, and resistant to high-pressure water jet cleaning
- Compact design, can minimize shadow effect.
- No additional assembly is required as the fixture is ready for installation and intended use



Resistant water jet

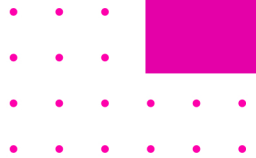


High PPFD

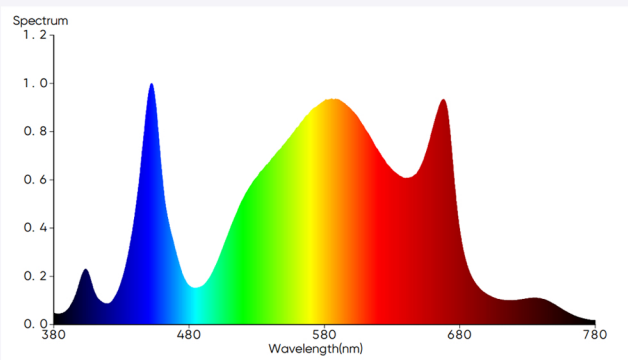


Product Specifications

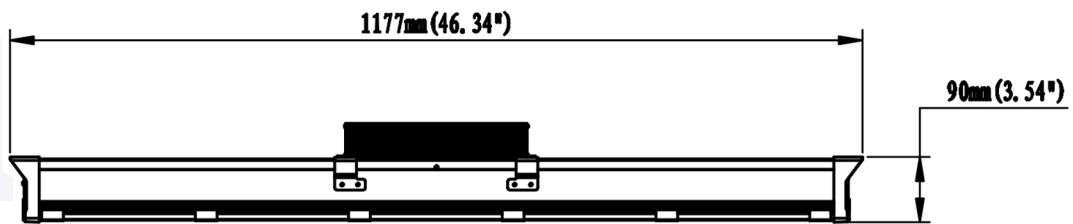
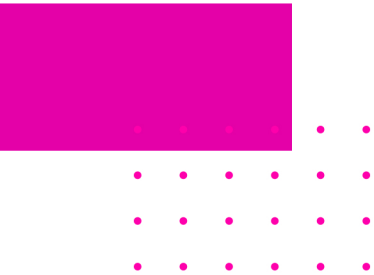
Item No	HL06-600
Power	600 W
PAR Output	1148 $\mu\text{mol/s}$ 1806 $\mu\text{mol/s}$
ePAR Output	1200 $\mu\text{mol/s}$ 1806 $\mu\text{mol/s}$
AC Input Voltage	100-240 V AC / 100-277 V AC / 277-480 V AC, 50/60 Hz
Radiation Angle	120°
Net Weight	11.6 kg / 25.7 lbs
Gross Weight	12.68 kg / 27.95 lbs
Dimensions	1177 x 145 x 136 mm (46.34" x 5.7" x 5.35")



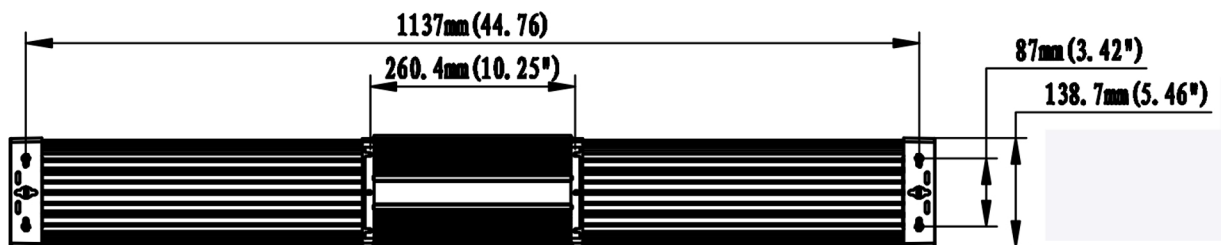
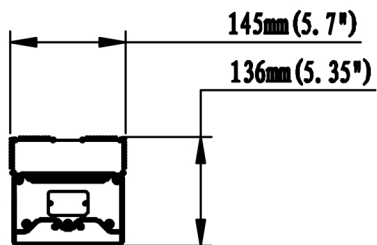
Spectrum Solution



At the flowering stage of cannabis using full spectrum flowering distribution promotes nutrient growth of cannabis plants, designed with an emphasis on the red and far red range to ensure the quality and quantity of flowering yields. With a peak wavelength of 400nm is designed to provide beneficial photomorphogenic responses by creating a mild stress response in plants. Research shows increased THC content in cannabis plants.



Product Dimensions



CONTACT US



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📍 Canada, Ontario, Richmond Hill

01

Project
Planning

02

Research
Analysis

03

Execute
Project

04

Make it
Happen

We Ensure Quality, Schedule and that We're All
Working toward Same Goal