

Photometric

## HortiPower Nurser 3

1200mm / 4ft HP-CF-LINEAR-20W-1200-AC

875mm / 9.7in HP-CF-LINEAR-16W-875-AC

600mm / 2ft HP-CF-LINEAR-10W-600-AC

450mm / 1.4ft HP-CF-LINEAR-8W-450-AC

HortiPower Nurser 3 is an amazingly effective plant-centric light. This linear LED lighting fixture is designed for growing vegetables and plants indoor. Nurser 3 is available in 1200mm (1185mm) length, 875mm, 600mm (585mm) and 450mm length (435mm). Mix and match the different lengths to fit the shelf lengths.

With an optimized intensity and plant-centric spectrum it is ideal for tissue culture of banana, pine-apple and dendrobium as well as indoor farming for microgreens (cress, mustard), leafy greens (lettuce, kale, chard), herbs (basil), edible flowers such as pansy, berries (strawberry, blueberry), seedlings of fruiting vegetables (tomato, bell pepper, cucumber), cacti, succulents, and growth of foliage plants (monstera, anthurium).

The special optical design and high transmissive cover supports a uniform lighting distribution on the shelf centre and edges. This proven and affordable fixture has custom engineered LEDs designed to support faster, better, and healthier growth.

Compared to traditional lighting it can save up to 50% energy costs as well as reduce maintenance cost.



Examples with Nurser 3

## PRODUCT FEATURES



City farming application



Consistent growth



Faster growth



Plant-centric lighting



Uniform lighting



Indoor application



3 year Warranty

Operating Temperature  
-20° to 40°CHumidity  
45~80%Professional lighting design  
IES

- Designed for Tissue culture and Vertical Farming applications
- Lighting to support consistent growth, so every batch grows uniform
- Lighting to support faster growth
- Special combination of custom LEDs to support germination, rooting and photosynthesis and plant growth
- Uniform and wide angle light distribution for consistent and efficient lighting across the shelf
- AC input for easier installation
- Interlocking lights for dotless line of light



## SPECIFICATION

LED	High intensity custom engineered SMD LEDs DR/W
Spectrum	Full spectrum and plant-centric spectrum (400-780nm)
Light output in micromole	Max. 37/ 29/ 19.7/ 14.21 $\mu\text{mol/s}$
Light received by plant @ 10cm distance	212 $\mu\text{mol/m}^2/\text{s}$
Light received by plant @ 40cm distance	39.52 $\mu\text{mol/m}^2/\text{s}$
Conversion factor IES or ltd	46.97
Beam Angle	120°
Light Effect	Uniform
Length	1185mm/ 875mm/ 585mm/ 435mm
Maximum Length	Extendable up to 15 meters
Luminous flux	Max. 1738/ 1390/ 875/ 645 lumens
Power Consumption	20W/ 16W/ 10W/ 8W or specific to the project
Amp	0.17/ 0.13/ 0.08/ 0.07
BTU	68/55/34/27
PPF efficiency	1.85 to 1.65 $\mu\text{mol/j}$
Lumen maintenance	L70 @ 50.000 @ 25° C
Approbation	Comply with CE/ RoHS/ CCC/ ETL
Housing	Polycarbonate
Accessories	Stainless steel mounting bracket
Installation	Surface- or suspended mounting
Weight	0.17/ 0.13/ 0.10/ 0.09Kgs/pcs

Warranty	3 years
CCT	Approximately 3500K
CRI	70
Voltage input	100-240VAC, 50-60Hz
Operating temperature	-20° C to 40° C
Storage temperature	-30° C to 50° C
IK rating	IK02
IP rating	IP20

Model	Length	Max. length	Lumen output	μmol/s	Wattage	Efficiency	Weight
HP-CF-LINEAR-20W-1200-AC	1200	15pcs	1738	37	20	1.85	0.17kgs/pcs
HP-CF-LINEAR-16W-875-AC	875	18pcs	1390	29	16	1.85	0.13kgs/pcs
HP-CF-LINEAR-10W-600-AC	600	30pcs	875	19.7	10	1.65	0.10kgs/pcs
HP-CF-LINEAR-8W-450-AC	450	37pcs	647	14.21	8	1.77	0.09kgs/pcs



## INSTALLATION ACCESSORIES shipped separately from the master-box

Each master-box contains 50pcs of Nurser 3 lights.

The additional accessories are shipped separately and include:

- One extension cable (300mm) for each light (50 pcs)
- One main cable with switch per 15 lights (4 pcs)
- Two top mounting clips per light (100 pcs)
- One silicon end-cap per 15 lights (4 pcs)

## RELATED PRODUCTS


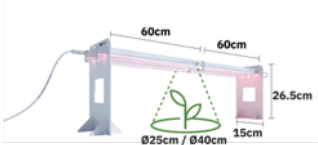












### Code

### Name



HP-HOME-GLS-1

HOME Grow Light Set (4x45cm)

	HP-HOME-GLS-2	HOME Grow Light Set (2x120cm)
	HP-HOME-GLS-3	HOME Grow Light Set (4x60cm)
	HP-HOME-GLS-4	HOME Grow Light Set (2x88cm)
	HP-PC-SWT-2000-EUC7	Main cable with switch 2000mm (EU-pin)
	HP-PC-SWT-2000-UKC7	Main cable with switch 2000mm (UK-pin)
	HP-PC-SWT-2000-USC7	Main cable with switch 2000mm (US-pin)
	HP-PCE-300-C7C8	Extension cable 300mm
	HP-PCE-1000-C7C8	Extension cable 1000mm
	HP-CLIP-BOTTOM	Bottom clip
	HP-CLIP-TOP-100	Top Clip 100mm
	HP-CLIP-TOP	Top clip
	HP-ENDCAP	Silicon end-cap
	HP-STAND-3	Stands
	HP-CLIP-MNT	Mounting clips

PRODUCT VISUALS



Hassle-free installation



Continuous light line for uniform crop growth

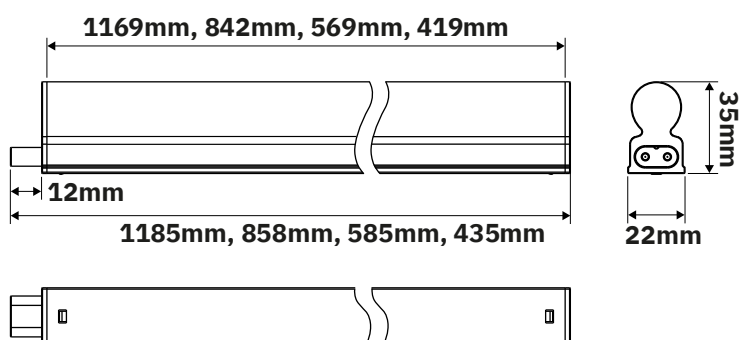


Plug-and-play

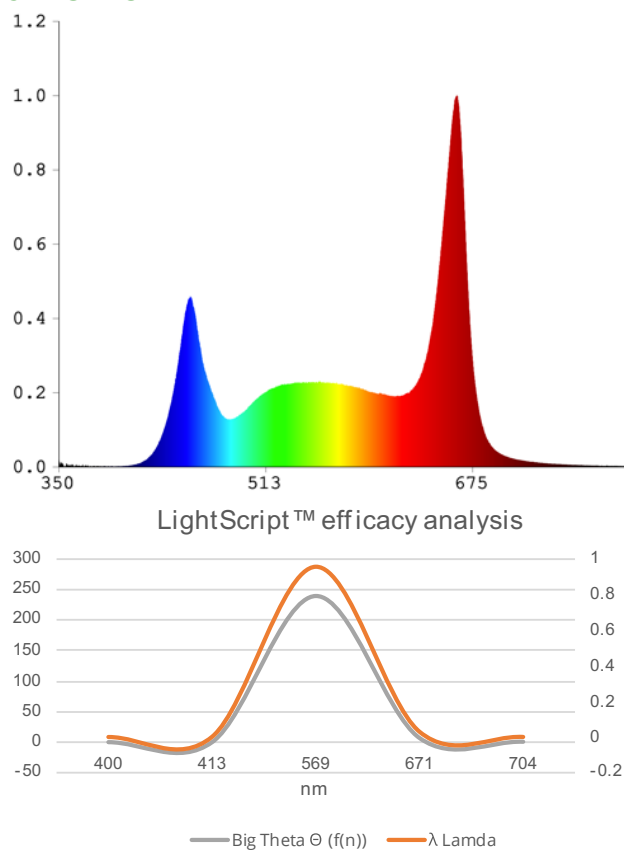


AC input

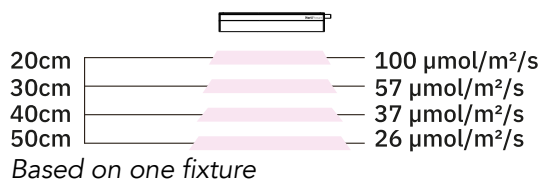
DIMENSION



## SPECTRUM



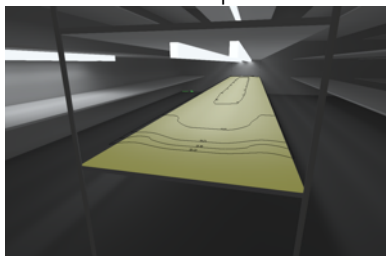
## PHOTON FLUX DENSITY



## LIGHTING DESIGN

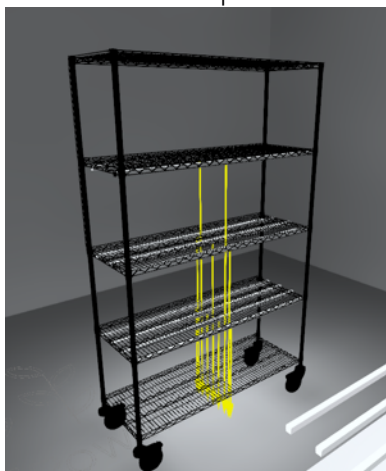
### Tissue culture

30 to 50  $\mu\text{mol}/\text{m}^2/\text{s}$   
2 pcs, 20 to 30cm spacing  
between the lights, 30cm  
distance from the plant leaves



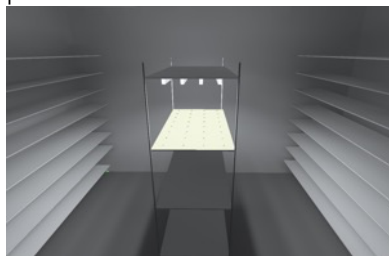
### Microgreens

60 to 150  $\mu\text{mol}/\text{m}^2/\text{s}$   
1 to 4 pcs, up to 20cm spacing  
between the lights, 30cm  
distance from the plant leaves



### Indoor Vertical Farming (leafy)

150 to 180  $\mu\text{mol}/\text{m}^2/\text{s}$   
15cm spacing between the lights,  
20 to 30cm distance from the  
plant leaves



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60 to 150  $\mu\text{mol}/\text{m}^2/\text{s}$   
1 to 4 pcs, up to 20cm spacing  
between the lights, 30cm  
distance from the plant leaves



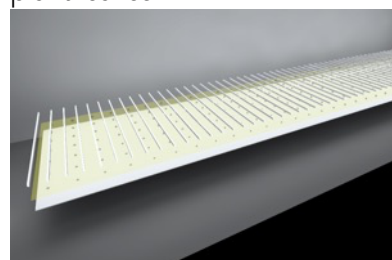
### Indoor Vertical Farming (Berries)

250  $\mu\text{mol}/\text{m}^2/\text{s}$   
8cm spacing between the lights,  
30cm distance from the plant  
leaves



### Indoor Vertical Farming (leafy, edible flowers)

150 to 180  $\mu\text{mol}/\text{m}^2/\text{s}$   
15cm spacing between the lights,  
20 to 30cm distance from the  
plant leaves



*.ltd files are available upon request (contact your representative for help and advice)*

## NOTES

Wipe clean with a damp cloth, wipe dry with a clean cloth.

Warranty policy and Terms and conditions for sale of products and services apply.

