

# EARTHbay & EARTHplate

Earth

IP 65

A light spectrum for every stage of every plant.

Based on the chassis of our industry leading High Bay and packed with the latest in horticultural technology our EARTHbay and EARTHplate grow lights offer you the ability to create bespoke solutions to your growing environment whilst maintaining a rugged and durable design.



Lights on.  
Grow.



**Plug & Play:**  
Service without  
an electrician



**Temperature:**  
-25°C to +35°C



**IP Rating:**  
Water resistant

**energywise**

Better light  
through research.



### Horticultural LED Lighting

# The EARTHbay & EARTHplate



Combine the EARTH range's ability to adapt to your environment with either Bluetooth™ or Wi-Fi receiver systems for all your timing & dimming requirements. Add a daylight harvesting sensor to your facility and now you can control how much or little power you use when allowing in sunlight & control all of this from your phone.



### KEY FEATURES

- **12 Distinct spectrums**

For bespoke solutions

- **Scalable Umol intensity**

Delivering the power you need

- **Focused power of lenses**

Keep your light where you need it most

- **Locally designed & produced**

Experts close at hand

- **Fully serviceable**

Saving you time & money

- **4 kV surge protection**

Increased protection

- **Water resistant (IP65)**

For easy watering



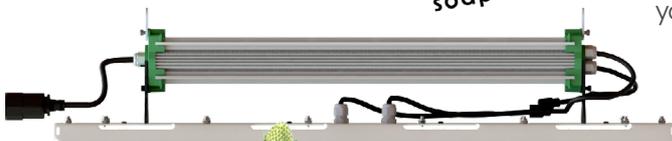
### A system you can install this season, that will allow you to expand your operation next season

As a grower, you are likely chasing 3 key factors in regards to your horticultural lighting: high yield, fast growth and reliability.

Thankfully when you invest in an EARTHbay / EARTHplate system, not only are you investing in a state of the art grow light, but you're putting your trust into years of research and development into a range of tailored spectrums, a scientific understanding of lighting, a modular design that can grow with you and some truly rugged hardware that will tick all 3 of your critical factors.

We've designed our luminaires with a 5-year promise. A guarantee that means that they will deliver the µmol package in their 5th year what we sold you in their 1st. We've been able to achieve this feat by maximising the durability of our LED boards, sourcing the best drivers to power them, mitigating heat with smart design, retains integrity in wet conditions and despite an already impressive 4kV standard surge protection, provided you the option to upgrade to 10kV should you wish.

\*no chemicals/alcohol

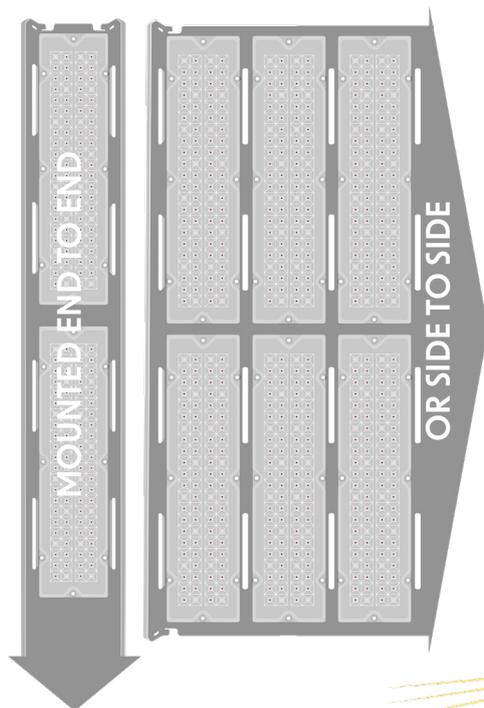




## Configure

### To the right

examples of LED configuration options available. These include side by side, end on end or stand alone variants. Our green minded team is ever at the ready to partner with you on a solution to meet your needs.



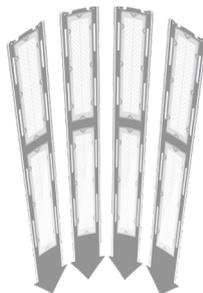
## Intensity

**We have the ability** to cater to any horticultural intensity. This diagram illustrates how an initial design using the EARTHbay series can easily grow with your confidence, needs and budget over time so you aren't locked in to what you started with. Remember more is not always better, we're here to help you find what will work best for you.

**2 row of lights over 1 bed**

**3 row of lights over 1 bed**

**4 row of lights over 1 bed**



1m

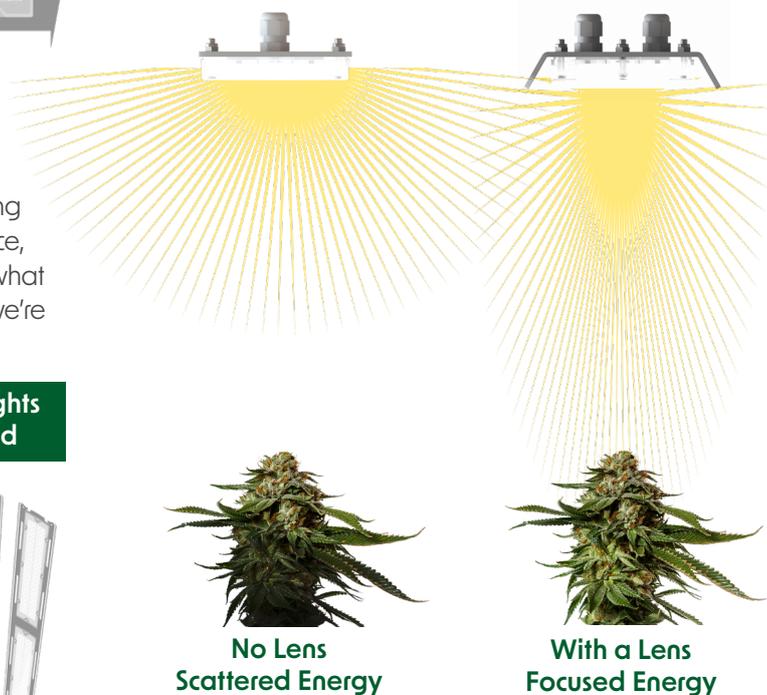
1m

1m



## Lenses

**Lenses provide** us the ability to put light where it's needed most. Growlights are not a frivolous investment, why waste precious light on walls and the walkways between your plants? Our engineers will help you find the perfect combination between height and lens to ensure that the light is focused on your plants and tuned to drive growth. Lenses also allow us to move the sweet spot further from the LED allowing EARTH growers to minimise the heat signature from the top of the canopy and ensure a safer environment for their crop without fear of bleaching or burning.



**No Lens  
Scattered Energy**

**With a Lens  
Focused Energy**

Each grow facility has its own unique constraints, requirements & budgets. That is why we've designed a system that is flexible enough to give you the solution that suits your needs.

## Spectrums

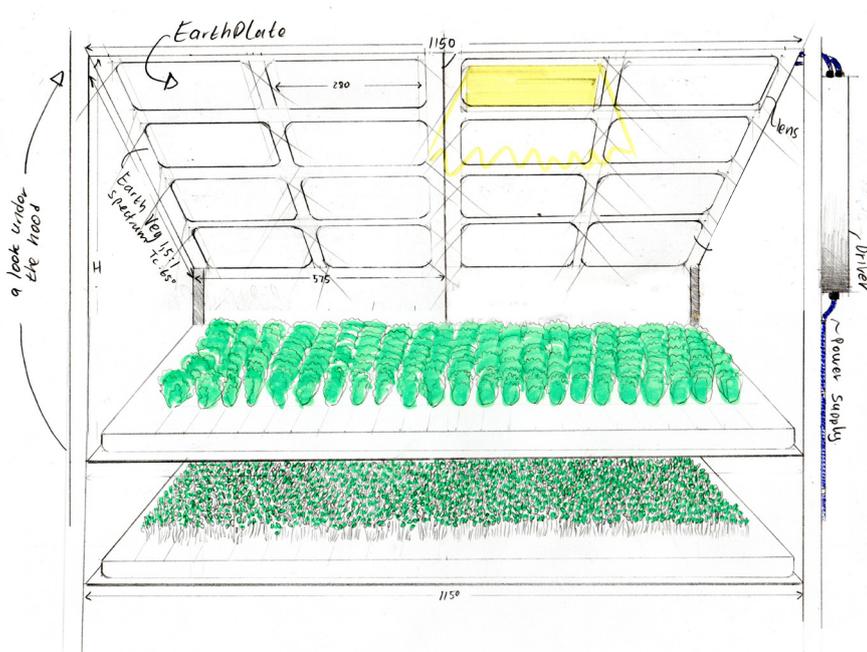
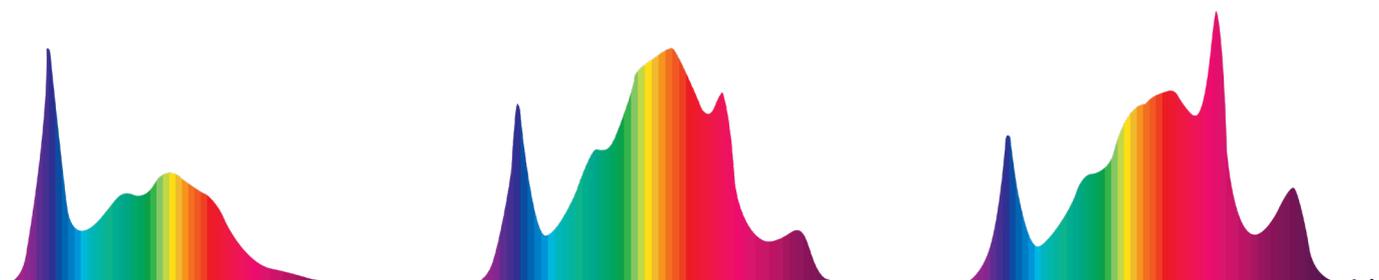
**We can assist you** in finding the best spectrum from over a dozen options we have on offer, covering propagation, vegging and flowering/fruiting stages of growth, We look forward help you find the one that suits your facility, intended crop & budget best. Helping you navigate the variants to ensure a good fit for you & your needs.

**Examples of 3 of our 12 available spectrums (breakdown of other spectrums available on request):**

**Earth™ Veg 1.5:1 Spectrum**

**Earth™ 0.4+:1 Spectrum**

**Earth™ 0.3:1 Spectrum**



### Layout Spec

- Layout of vertical farming rack setup, lettuce and micro greens.
- EARTHplate used with remote drivers to maximise space due to low ceiling.

### Mounting options

- Included claw for P2000 trunking or shackle for use with rope, cable or chain are available to you with the Earth Systems.



P2000 Claw



Shackle

### Applications

- Top lighting / Suspended lighting – High bay lighting from above crop
- Vertical farming – in vertical or horizontal orientation
- Virtually any plant/crop at any stage/season
- Complimentary to sunlight (greenhouse) or replacement to sunlight (indoor)



# THE LUMINAIRES



**The EARTHbay** has the LED driver box attached to the back of the fitting for easy, out of the way storage allowing for compact linear runs of fittings



**The EARTHplate** design allows for the LED plate and driver box to be separated. When slim-line LED plates are a must because of height restrictions, the EARTHplate XP is your perfect solution for high bay racking applications

## Two variants, one light

The EARTHbay and EARTHplate have matching LED configurations & outputs.

## Key difference

Whilst the EARTHbay has an attached driver box behind the fitting the EARTHplates driver is separated from the driver box (up to 2m).

## Wattages

Maximum driver efficiencies and wattages between 300W and 330W respectively.

## Dimmable (DALI)

Both come dimmable ready unless requested to be otherwise.

## µmols capacity

Both EARTH configurations are designed to provide powerful µmols packages. However thanks to their modularity we can build the system up or strip it down. This allows us to provide you a fitting as powerful or restrained as you require.

## Spectrums & lenses

Both the Plate & Bay offer the same phenomenal spectrums & lenses for you to select from.

## AT A GLANCE:



Impact resistant lens (IK08)



4 different light distribution options (lenses)



Dimmable DALI standard, non dimmable on request.



5 year warranty  
\*Click here for terms and conditions



Standard 4 kV surge protection



Upgrade 10kV surge protection available



Able to operate at +35°C ambient



Plug and play ability to service your fittings without an electrician

**Our EARTHbay & EARTHplate** range are based off of the same chassis of our industrial flagship XP series. What this means for you is a fitting whose body has proved itself at cooling, protecting and housing luminaires in some of the most rugged environments in Africa. We then combined this chassis with grow technology sourced from the leading horticultural component manufacturers in both Europe and Asia. We then put the new system through months of testing to ensure that the final product could deliver against our best intentions. The final result, a grow light several years in the making, yet on the very tip of the latest technological advancements in LED grow light technology available today.

## A CLOSER LOOK

### Heat-sink

Aluminum heat-sink engineered to keep the LEDs comfortable up to an ambient of 35°C\*. This radical design is also easier to clean fitting without compromising heat dissipation. (\*Higher temp on request).

### Lenses

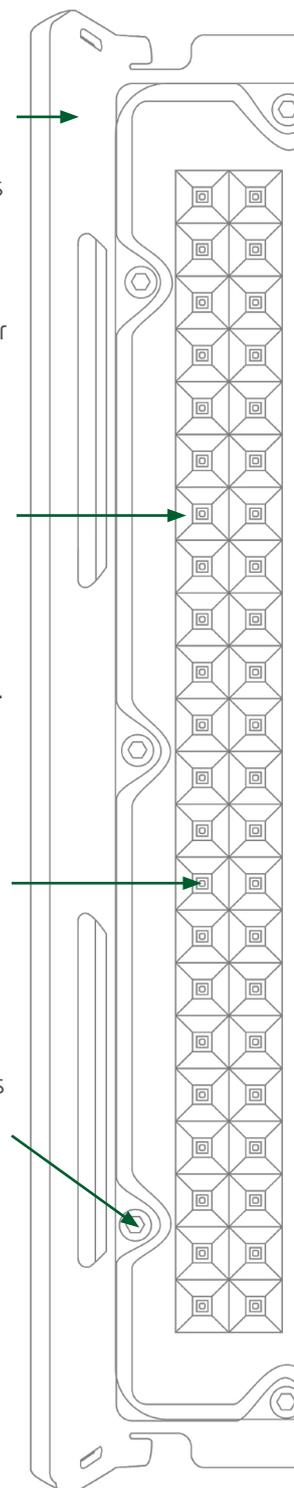
Polycarbonate lens offer great IK08 impact protection and efficient distribution control. The continuous silicone gasket allows a water-resistant (IP65) assembly.

### LEDs

Source from the best component manufactures in Europe to ensure maximum lifespan, quality and light spectrums.

### Finishings

All fasteners are Stainless Steel 316 rust free longevity.



Designed and  
Manufactured by

**energywise**

Better Light  
Through Research.

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# Other Energywise lighting options

Energywise specialises in LED luminaires for industrial, EX, commercial and horticultural applications.

## INDUSTRIAL

### Lights on



**Bay XP**  
Factories, Warehouses,  
Cold rooms etc.

**Standard**  
Height: 6-25m  
IP: 65  
Temp: 40°C

**Bay XL**  
Factories, Warehouses,  
Supply rooms etc.

**Standard**  
Height: 3-20m  
IP: 40  
Temp: 30°C

**Bay XE**  
Factories, Warehouses,  
Supply rooms etc.

**Standard**  
Height: 6-25m  
IP: 20  
Temp: 30°C

**DUSTPROOF**  
Warehouses, Car parks,  
Corridors.

**Standard**  
Height: 2.5-8m  
IP: 66  
Temp: 35°C

**Torch Bulkhead**  
Heavy industrial areas.

**Standard**  
Height: 2-10m  
IP: 65  
Temp: 30°C



**HIGHbay XF**  
Light industrial econo  
low bay.

**Standard**  
Height: 2-10m  
IP: 20  
Temp: 30°C

**LOWbay XF**  
Light industrial econo  
low bay, Task lighting.

**Standard**  
Height: 2-10m  
IP: 20  
Temp: 30°C

**LED eBay**  
Light industrial econo  
diffused low bay

**Standard**  
Height: 2-10m  
IP: 40  
Temp: 35°C

**Retrofit 44**  
Converting old HID  
tech to LED

**Standard**  
Height: 8m  
IP: 00  
Temp: 30°C

**Retrofit 22**  
Converting old HID  
bulkhead to LED

**Standard**  
Height: 10m  
IP: 00  
Temp: 35°C

**Bricklight**  
Recessed wall light

**Standard**  
Height: 2m  
IP: 00  
Temp: 30°C

## RETAIL & COMMERCIAL



**LEDrail 1000**  
Shops, Production  
facilities, parking

**Standard**  
Height: 2.5-10m  
IP: 40  
Temp: 30°C

**LEDrail 2000**  
Shops, Sheds,  
Underground parking

**Standard**  
Height: 2.5-10m  
IP: 40  
Temp: 30°C

**LEDrail 4000**  
Retail, board rooms,  
department stores.

**Standard**  
Height: 2.5-6m  
IP: 40  
Temp: 35°C

**LEDrail 8000**  
Retail, board rooms,  
department stores.

**Standard**  
Height: 2.5-6m  
IP: 40  
Temp: 35°C

**LEDrail 4-100**  
All retail outlets,  
showrooms, offices etc

**Standard**  
Height: 2.5-10m  
IP: 40  
Temp: 35°C

**LEDRAIL 4-100 IP65**  
Bakeries, Industrial  
kitchens etc

**Standard**  
Height: 2.5-10m  
IP: 65  
Temp: 35°C

**LEDRAIL 4-100 GAP**  
Retail applications,  
Hardware stores etc

**Standard**  
Height: 2.5-10m  
IP: 40  
Temp: 35°C

## EX



**EX Bay XP**  
Factories, Warehouses,  
Mills, Marine etc.

**Standard**  
Height: 6-25m  
IP: 65  
Temp: 40°C

**EX Flood**  
Factories, Warehouses,  
Mills, Marine etc.

**Standard**  
Height: 3-10m  
IP: 65  
Temp: 40°C

**EX DUSTPROOF  
PREMIUM** Warehouses,  
Car parks, Mills.

**Standard**  
Height: 2.5-8m  
IP: 65  
Temp: 40°C

**EX DUSTPROOF**  
Warehouses, Car parks,  
Corridors, Mills.

**Standard**  
Height: 2.5-8m  
IP: 65  
Temp: 40°C

**EX Pod**  
Factories, Mines,  
Marine etc.

**Standard**  
Height: 2-5m  
IP: 68  
Temp: 40°C

**EX Torch**  
Heavy industrial areas.

**Standard**  
Height: 2-10m  
IP: 65  
Temp: 40°C

## EARTH



**EARTHbay**  
Horticulture, Open  
areas etc

**Standard**  
Height: 2.5m  
IP: 65  
Temp: 35°C

**EARTHplate**  
Horticulture, Rack/  
Under shelf etc

**Standard**  
Height: 0.5m  
IP: 65  
Temp: 35°C

**EARTHpod**  
Horticulture, Propagation,  
Vertical, Racks etc.

**Standard**  
Height: 0.2m  
IP: 65  
Temp: 35°C

Job done

energywise

Better light  
through research.