

# LEDrail 4LCO

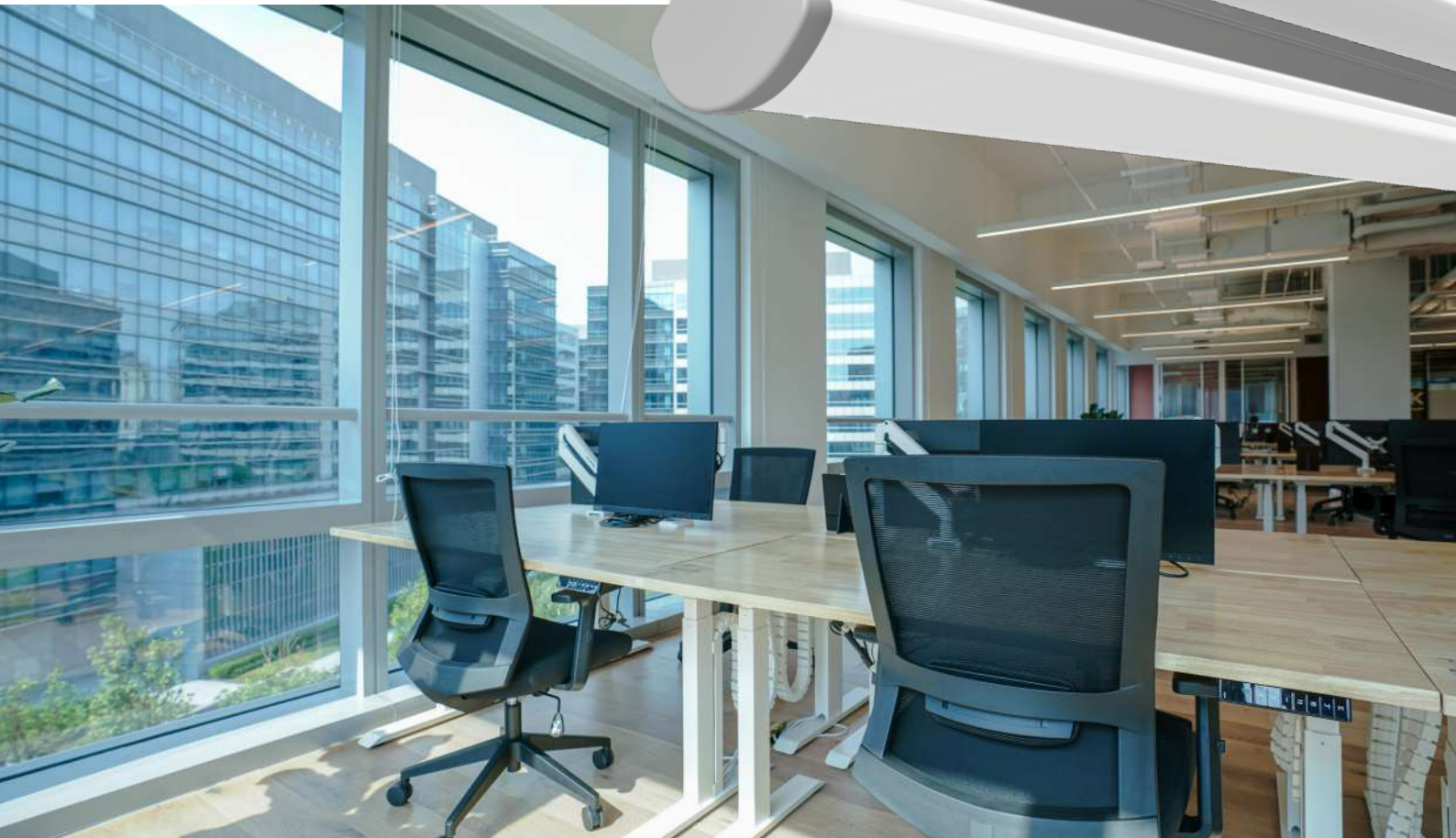


Retail

IP 40

## Where functionality meets beauty.

The LEDrail 4LCO, the perfect blend of innovation and convenience. Designed with our signature **SNAP & GO** technology, maintenance has never been easier - No fuss, no hassle, just quick and efficient upkeep. But that's not all, the LEDrail 4LCO also delivers beautifully diffused lighting that's gentle on the eye, creating a soft inviting atmosphere in any space.



Proudly manufactured in  
**South Africa** using  
European LED Technology



**kV Protection:**  
1kV-2kV,  
4kV or 10kV on  
request



**Indoor**



**Acrylic  
Diffuser**



**5 Year  
Warranty**

**energywise**

Better light  
through research.

# A blend of innovation and convenience

## Beautifully diffused lighting

The LEDrail 4LCO is equipped with a meticulously engineered diffuser that transforms lighting into an art form. This advanced diffuser is designed to evenly disperse light across your space, eliminating harsh shadows and bright spots.

Not only does the diffuser create a visually stunning effect, but it also contributes to the fixture's overall energy efficiency. By optimizing the spread of light, the LEDrail 4LCO ensures that you get the maximum benefit from every lumen, providing brilliant illumination without wasted energy.

Ideal for a myriad of environments, our diffuser finds its true calling in automotive factories, where precision is paramount and glare can be a hindrance. Its 120-degree spread ensures that every corner is properly illuminated, creating a safer and more productive workspace.

### KEY FEATURES

#### 6 SIZE OPTIONS

- LEDrail 4LCO 102 560mm
- LEDrail 4LCO 104 1120mm
- LEDrail 4LCO 105 1400mm
- LEDrail 4LCO 106 1680mm
- LEDrail 4LCO 108 2240mm
- LEDrail 4LCO 110 2800mm

#### DIFFUSER

- Our acrylic diffuser allows for a wider and even distribution of light, making it a beautiful product for boardrooms and the like.



**Optional:**  
Bluetooth, Wifi,  
Dali & Bi Level.  
Casambi App  
featured above.



#### MOUNTING OPTIONS

- Ceiling, Floating or Pendant
- Suspended
- Surface mount

\*25°C is for Textbooks, Not Africa's Sun:  
All EW Lights are designed for the 30°C Reality. Minimum.



# Specifications

## From manufacturing plants to retail floors.

Standard fitting finish options are white, anodised and black. Bespoke colour options on request.



**kV Protection:**  
1kV-2kV. 4kV or  
10kV on request



**5000K standard**  
3000K, 4000K,  
6500K available  
CR>80 R9>13



**Indoor**



**Colour Options:**  
White, & Black



**Suspended/  
Pendant Mount**



**Ceiling  
Mount**



**Acrylic  
Diffuser**

### 102

### 104

### 105

### 106

### 108

### 110

Raw Lumen up to: Effective Lumen up to:	2920 - 3512 lm 2336 - 2734 lm	5840 - 9952 lm 4672 - 7280 lm	7300 - 12440 lm 5840 - 9100 lm	8760 - 14,928 lm 7008 - 10,920 lm	11,680 - 19,904 lm 9344 - 14,560 lm	14,600 - 24,880 lm 11,680 - 18,200 lm
<b>240V:</b>	<b>18W - 21W</b>	<b>35W - 59W</b>	<b>44W - 74W</b>	<b>53W - 89W</b>	<b>70W - 118W</b>	<b>88W - 148W</b>
Raw Efficacy up to: Effective Efficacy up to:	166 - 164 lm/w 133 - 128 lm/w	166 - 168 lm/w 133 - 123 lm/w	166 - 168 lm/w 133 - 123 lm/w	166 - 168 lm/w 133 - 123 lm/w	166 - 168 lm/w 133 - 123 lm/w	166 - 168 lm/w 133 - 123 lm/w
<b>Max Ta:</b> <b>L&amp;B:</b>	<b>40°C</b> L80 B10 70 000 Hrs	<b>40°C</b> L80 B10 70 000 Hrs	<b>40°C</b> L80 B10 70 000 Hrs	<b>40°C</b> L80 B10 70 000 Hrs	<b>40°C</b> L80 B10 70 000 Hrs	<b>40°C</b> L80 B10 70 000 Hrs
	<b>560 x 55mm</b>	<b>1120 x 55mm</b>	<b>1400 x 55mm</b>	<b>1680 x 55mm</b>	<b>2240 x 55mm</b>	<b>2800 x 55mm</b>

## SNAP & GO No tools, no fuss, no problem

The **Snap & Go** feature of the LEDrail 4LCO is designed to make maintenance a breeze, redefining convenience in lighting solutions. With this innovative mechanism, accessing the fixture for maintenance or routine checks is as simple as a quick snap without having to remove the trunking installation. No more fumbling with tools or struggling with complex setups—just a seamless, intuitive process that is as easy as 1,2,3.

1

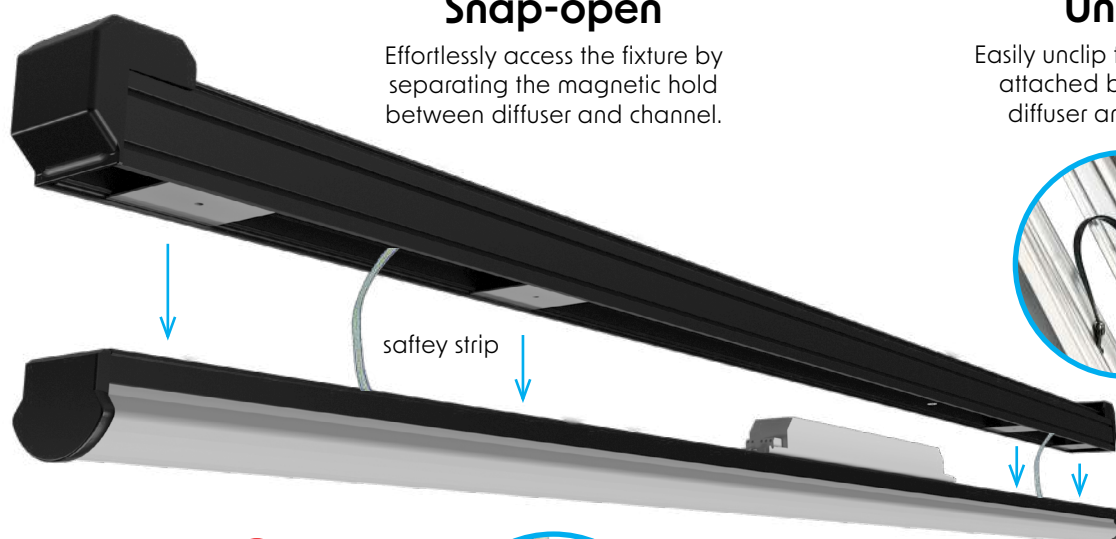
### Snap-open

Effortlessly access the fixture by separating the magnetic hold between diffuser and channel.

2

### Unclip

Easily unclip the safety strip attached between the diffuser and channel.



3

### Disconnect

Seamlessly disconnect the 3-way yellow connector.  
**It's that simple.**

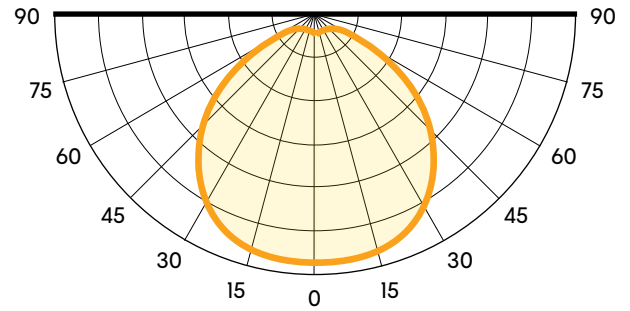


# Diffused light

Light to work to.

**The diffuser designed** for the 4LCO provides a low glare perfect for offices, boardrooms, and a host of commercial environments.

Introducing our 120-degree diffuser, designed to deliver not just light, but an experience. Say goodbye to harsh glare and hello to a beautifully illuminated environment. Crafted to perfection, this diffuser ensures that light is distributed evenly, creating a welcoming ambiance in any setting.



120° Diffuser

## A Closer Look

**Engineered to the highest standards.**

### Driver

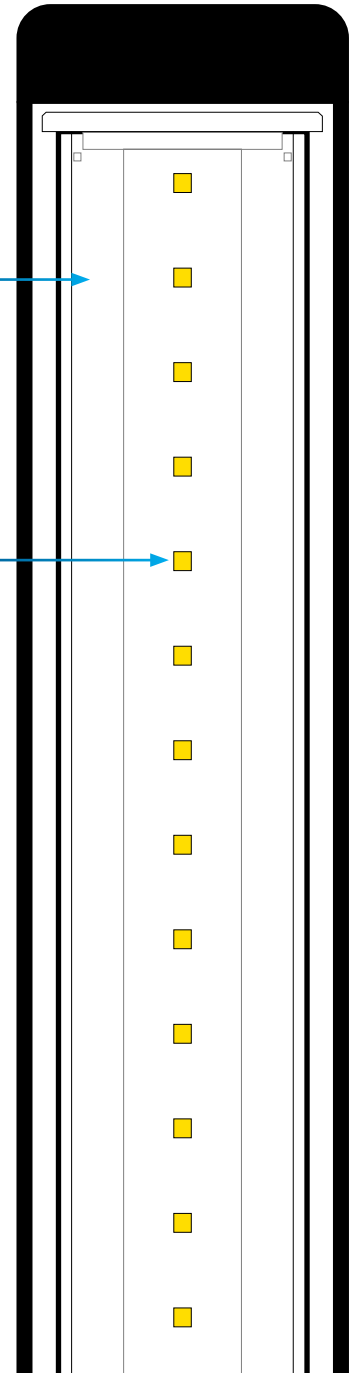
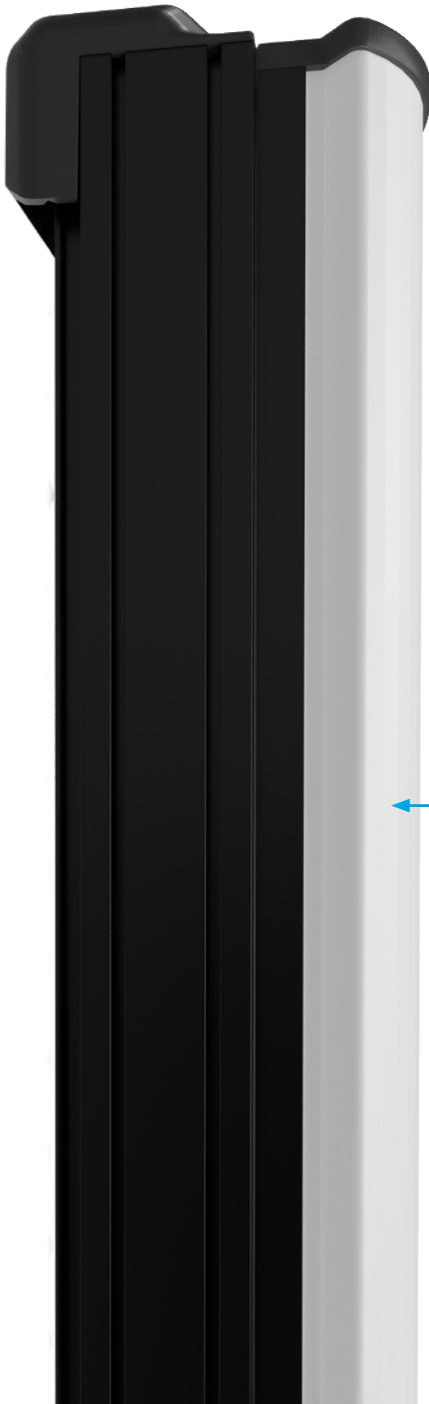
The driver powering this elegant light is housed within the fitting body to add to that slick, simple design. Suitable for tougher South African conditions and designed to last up to 70 000 hours.

### LEDs

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

### Diffuser

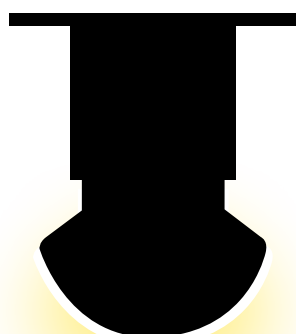
A harmonious band of light pours through our acrylic diffuser. It allows for wider and even distribution of light creating a welcoming ambiance in any environment.



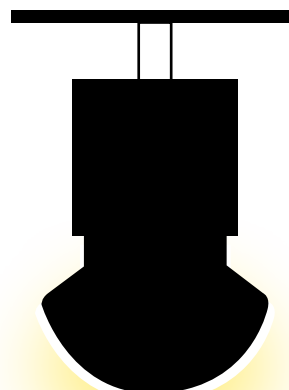
# Installation

## Easy to install, Saving you time & money

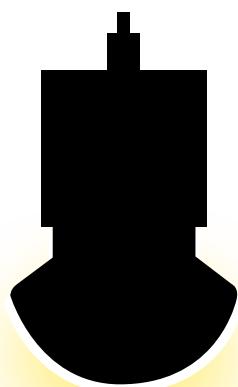
The LEDrail 4000 family are simple to install with a few different mounting options. Please specify your preference when ordering your LEDrail.



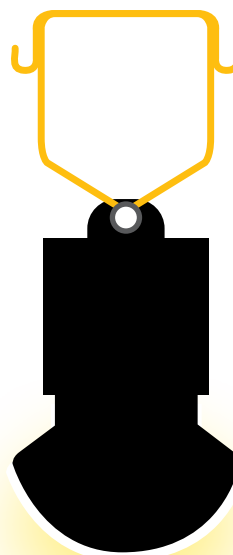
**Ceiling Mount**  
A simple system to mount your new fittings directly to most ceilings.



**Floating Mount**  
A mount for areas where a ceiling mount isn't possible.



**Suspended Mount**  
For hanging the fitting at your desired height.



**P2000 Mount**  
For hanging the fitting on a P2000 trunking.  
**Optional**

### Disclaimer:

While every effort is made to ensure the accuracy of technical details at the time of publication, we reserve the right to modify or upgrade any product or component specifications without prior notice. Our products undergo continuous improvements in technology, energy efficiency, safety, and cost-effectiveness to meet evolving industry standards and supplier updates.

All upgrades are made to enhance product quality, and as such, no claims or complaints will be entertained regarding specification changes.

We are ISO 9001:2015 compliant, and our assembly line adheres to IEC 60958 guidelines. Our products are covered by a Product Liability Policy, and our LED products come with a 5-year warranty (T&Cs apply—please contact Head Office for details).

### Effective Lumen Output After Warm-up

We adhere to industry best practices in providing accurate Effective Performance Data (Lumens, Watts, and L&B) that account for driver and LED thermal losses during the warm-up period.

To ensure precise measurements, we conduct Energy and Photometric Testing only after the LED within the fitting has been powered on long enough to reach a stable and constant lumen output—achieving thermal equilibrium at an ambient temperature ( $T_a$ ) of 35°C.






Unfortunately, some suppliers misrepresent efficacy by inflating lumen values 10–20% above the true effective output. This is often done by using raw LED photometric data, which:

- Excludes driver losses (typically 2–5%)
- Ignores thermal adjustment losses, which can take 20–240 minutes and account for 7–15% reduction in output

Given these factors, the actual Effective Lumen Output is often lower than raw values suggest. In extreme cases, some suppliers report only raw LED values, completely disregarding real-world performance. For transparency and accuracy, we ensure our data reflects true effective lumens, providing reliable performance metrics you can trust.

# Features

Standard across the LEDrail 4LCO range.

-  Indoor.
-  1kV-2kV standard voltage surge protection.
-  Sustainably Recyclable aluminum.
-  Acrylic diffuser.
-  Serviceable: All units are serviceable and all parts replaceable.
-  Top Bin Chips <3 MacAdam Ellipses.
-  Colour temperature 5600K
-  Colour rendition index 80+
-  L&B Life Rating: L80 B10, 70 000 hrs
-  Earth connection and CLASS I insulation fixture.
-  Ceiling mount
-  Floating mount
-  Suspended/pendant mount
-  Recessed mount

# Extras

Optional Extras.

-  Casambi bluetooth technology.  

-  All units can be fitted with Dali or bi-level driver.
-  4kV surge protection upgrade available
-  10kV replaceable surge protection. module
-  IES files available.
-  P2000 Trunking mount
-  VOLTpro



**5 year warranty:**  
Please visit  
[www.energywise.co.za](http://www.energywise.co.za)

Designed and  
Manufactured by

**energywise**

Better Light  
Through Research.

[sales@energywise.co.za](mailto:sales@energywise.co.za) | [www.energywise.co.za](http://www.energywise.co.za)

T: +27 31 764 2345 / +27 87 941 0012

Physical address: Unit 5 Edstan Business Park, 2 Ibhubsesi Road, Riverhorse Valley, Durban, South Africa, 4017



Postal address: PO Box 1166, Kloof, South Africa, 3640

# Energywise lighting options

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

## INDUSTRIAL

						
<b>Bay XP</b> Factories, Warehouses, Cold rooms etc.	<b>Bay XL</b> Factories, Warehouses, Supply rooms etc.	<b>Bay XE</b> Factories, Warehouses, Supply rooms etc.	<b>DUSTPROOF</b> Warehouses, Car parks, Corridors.	<b>VANDAL-RESISTANT DUSTPROOF</b> Car parks, Corridors, Mills.	<b>PUREBox Panel</b> Medical & laboratory, Clean rooms etc.	<b>Torch Bulkhead</b> Heavy industrial areas.
<b>Standard</b> Height: 6-25m IP: 65 Temp: 40/65°C	<b>Standard</b> Height: 3-20m IP: 40 Temp: 30°C	<b>Standard</b> Height: 6-25m IP: 20 Temp: 30°C	<b>Standard</b> Height: 2.5-8m IP: 66 Temp: 35°C	<b>Standard</b> Height: 2.5-8m IP: 66 Temp: 35°C	<b>Standard</b> Height: 3-5m IP: 54 Temp: 35°C	<b>Standard</b> Height: 6-25m IP: 65 Temp: 30°C



						
<b>Pod IP65</b> Tamperproof and nearly unbreakable.	<b>Bay XF</b> Get the job done, Glare-Free.	<b>Plate XP</b> Swiss army knife of lighting.	<b>TOBLO bay</b> Factories, Warehouses, Supply rooms etc.	<b>Bay XT</b> Distribution centers, Warehouses etc.	<b>Retrofit 44</b> Converting old HID tech to LED	<b>Retrofit 22</b> Converting old HID bulkhead to LED
<b>Standard</b> Height: 2-5m IP: 65 Temp: 35°C	<b>Standard</b> Height: 2-10m IP: 20 Temp: 30°C	<b>Standard</b> Height: 6-25m IP: 65 Temp: 35°C	<b>Standard</b> Height: 6-25m IP: 40 Temp: 40/30°C	<b>Standard</b> Height: 3-20m IP: 40 Temp: 35°C	<b>Standard</b> IP: 00 Temp: 30°C	<b>Standard</b> IP: 00 Temp: 35°C

## RETAIL & COMMERCIAL

						
<b>LEDrail 1000</b> Shops, Production facilities, parking	<b>LEDrail 2000</b> Shops, Sheds, Underground parking	<b>LEDrail 4000</b> Retail, board rooms, department stores.	<b>LEDrail 8000</b> Retail, board rooms, department stores.	<b>LEDrail 4-100</b> All retail outlets, showrooms, offices etc	<b>LEDrail 4LCO</b> Shops, Production facilities, showrooms etc	<b>Linear 4-300</b> Glare free precision lighting
<b>Standard</b> Height: 2.5-10m IP: 40 Temp: 30°C	<b>Standard</b> Height: 2.5-10m IP: 40 Temp: 30°C	<b>Standard</b> Height: 2.5-6m IP: 40 Temp: 35°C	<b>Standard</b> Height: 2.5-6m IP: 40 Temp: 35°C	<b>Standard</b> Height: 2.5-10m IP: 40 Temp: 35°C	<b>Standard</b> Height: 2.5-10m IP: 40 Temp: 35°C	<b>Standard</b> Height: 2.5-10m IP: 40 Temp: 35°C

						
<b>Downlighter</b> Offices, retail and hospitality settings.	<b>Panel 595x595</b> Offices, healthcare, educational facilities.	<b>Panel 1195x595</b> Offices, commercial, educational settings.	<b>EX Bay XP</b> Factories, Warehouses, Mills, Marine etc.	<b>EX DUSTPROOF PREMIUM</b> Warehouses, Car parks, Mills.	<b>EX DUSTPROOF</b> Warehouses, Car parks, Corridors, Mills.	<b>EX Pod</b> Factories, Mines, Marine etc.
<b>Standard</b> IP: 40 Temp: 30°C	<b>Standard</b> IP: 40 Temp: 30°C	<b>Standard</b> IP: 40 Temp: 30°C	<b>Standard</b> Height: 6-25m IP: 65 Temp: 40°C	<b>Standard</b> Height: 2.5-8m IP: 65 Temp: 35°C	<b>Standard</b> Height: 2.5-8m IP: 65 Temp: 35°C	<b>Standard</b> Height: 2-5m IP: 68 Temp: 40°C

## EARTH

			
<b>EX Torch</b> Heavy industrial areas.	<b>EARTHbay</b> Horticulture, Open areas etc	<b>EARTHplate</b> Horticulture, Rack/ Under shelf etc	<b>EARTHpod</b> Horticulture, Propagation, Racks etc.
<b>Standard</b> IP: 65 Temp: 40°C	<b>Standard</b> From canopy: 0.5-2m IP: 65 Temp: 35°C	<b>Standard</b> From canopy: 0.4-2m IP: 65 Temp: 35°C	<b>Standard</b> From canopy: 0.2-1m IP: 65 Temp: 35°C

Lights on. Job done.

**energywise**

Better light  
through research.