

# EX Pod

ZONE  
21/22

ZONE  
1/2

EX

IP  
68

A standout luminaire with IP68 level protection & impressive operating temperature range.



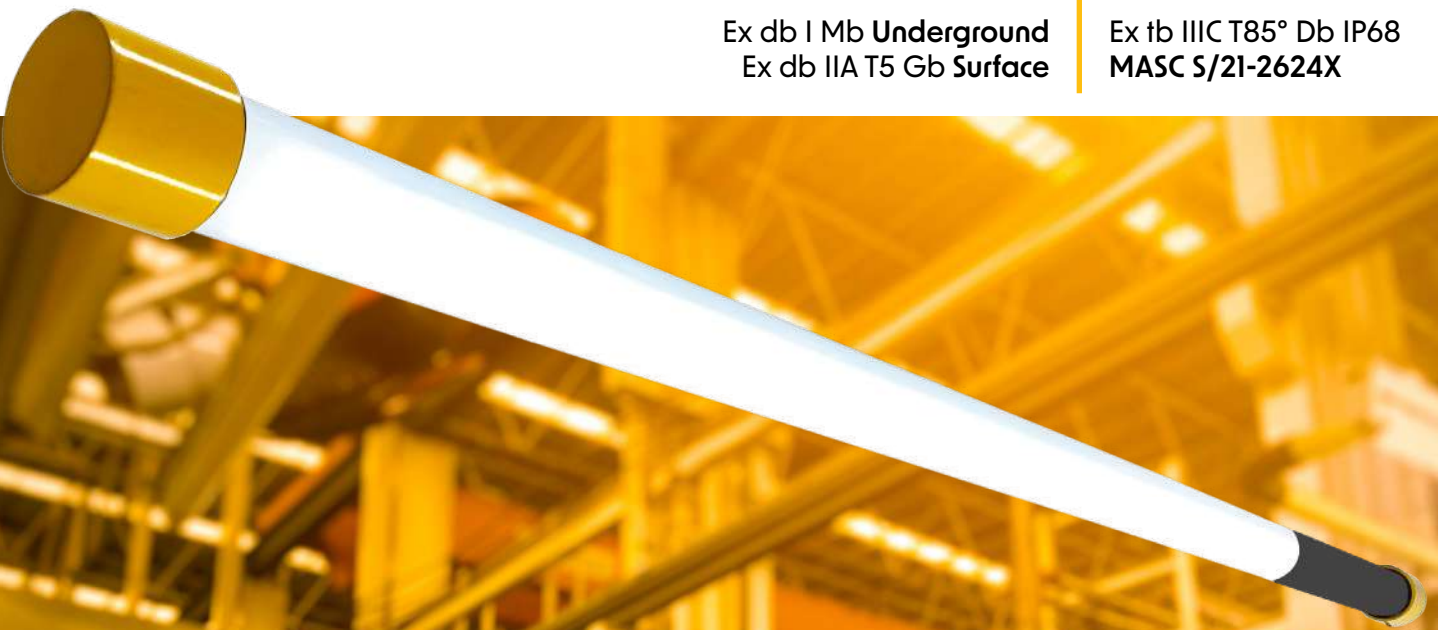
This IP68 fitting is designed for durability in harsh environments and available for Zone 21/22 as well as Zone 1/2.

EX POD ZONE 1/2

EX POD ZONE 21/22

Ex db I Mb **Underground**  
Ex db IIA T5 Gb **Surface**

Ex tb IIIC T85° Db IP68  
MASC S/21-2624X



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



**kV Protection:**  
4kV, 10kV on  
request

**IP  
68**

**Indoor /  
Outdoor**



**Impact  
Resistance:**  
IK08/5J



**5 Year  
Warranty**

**energywise**

Better light  
through research.

# INTRODUCING



This IP68 fitting is designed for durability in harsh environments and available for Zone 1/2 as well as Zone 21/22.

**Our EX Pod** is the perfect combination of durability and output. Housed inside an impact resistant polycarbonate tube and available for Zone 21 and 22 locations which are hazardous because of the presence of combustible dust and fibers and Zone 1 or 2 which are hazardous due to the presence of combustible liquids or gases.

**Our EX fittings are manufactured** using approved EX technology sourced from the leading component manufacturers in Europe. We then put the new luminaries through months of testing to ensure that the final product could deliver against our exacting specifications.

**The final result**, an EX light several years in the making, yet on the very tip of the latest technological advancements in LED EX light technology, available today.

## KEY FEATURES

### MODULAR

- With extra Lumen Packages up to 14,200 lm by pairing multiple pods.

### 4 SIZE OPTIONS

- EX Pod 1350mm
- EX Pod 1630mm
- EX Pod 1910mm
- EX Pod 2190mm

### CASING

- Impact rating IK08/5J (ZONE 21/22)
- Impact rating IK08/10J (ZONE 1/2)

### TEMPERATURE

- Ambient room temperature -25°C to +40°C.



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

# Specifications sheet for the FROSTED POD



**kV Protection:**  
4kV, 10kV on request



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



**Indoor / Outdoor**



**Impact Resistance:**  
IK08/5J



**Casing Diffuser:**  
Polycarbonate



**Modular:**  
Expandable system



**L&B Life Rating**  
L90 B10  
30 000 hrs

## 8 Different wattage, length & lumen options

### LOW OUTPUT HIGH OUTPUT

Raw Lumen:	4410 lm	5150 lm
Effective Lumen:	3080 lm	3550 lm
Wattage:	<b>25W</b>	<b>33W</b>
Power Factor:	0.95	0.95
Raw Efficacy:	176 lm/w	157 lm/w
Effective Efficacy:	123 lm/w	108 lm/w
Max Ta:	<b>35°C</b>	<b>35°C</b>
L&B:	L90 B10	L80 B10

**1420mm x 50mm**

**EX POD 103**

Raw Lumen:	5890 lm	6870 lm
Effective Lumen:	4100 lm	4730 lm
240V:	<b>34W</b>	<b>44W</b>
Power Factor:	0.95	0.95
Raw Efficacy:	176 lm/w	157 lm/w
Effective Efficacy:	123 lm/w	108 lm/w
Max Ta:	<b>35°C</b>	<b>35°C</b>
L&B:	L90 B10	L80 B10

**1700mm x 50mm**

**EX POD 104**

Raw Lumen:	7360 lm	8590 lm
Effective Lumen:	5130 lm	5910 lm
240V:	<b>42W</b>	<b>55W</b>
Power Factor:	0.95	0.95
Raw Efficacy:	176 lm/w	157 lm/w
Effective Efficacy:	123 lm/w	108 lm/w
Max Ta:	<b>35°C</b>	<b>35°C</b>
L&B:	L90 B10	L80 B10

**1980mm x 50mm**

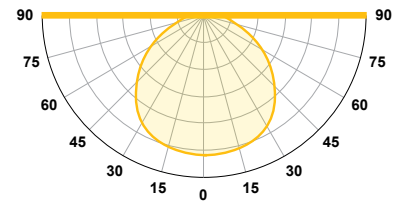
**EX POD 105**

Raw Lumen:	8830 lm	10,300 lm
Effective Lumen:	6160 lm	7100 lm
240V:	<b>50W</b>	<b>66W</b>
Power Factor:	0.95	0.95
Raw Efficacy:	176 lm/w	157 lm/w
Effective Efficacy:	108 lm/w	108 lm/w
Max Ta:	<b>35°C</b>	<b>35°C</b>
L&B:	L90 B10	L80 B10

**2260mm x 50mm**

**EX POD 106**

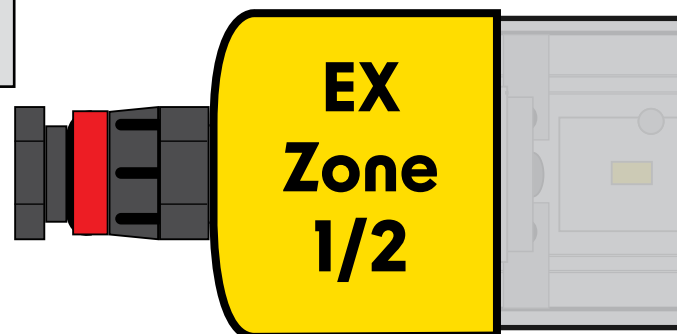
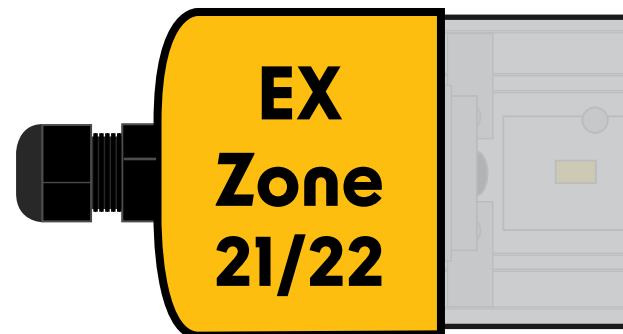
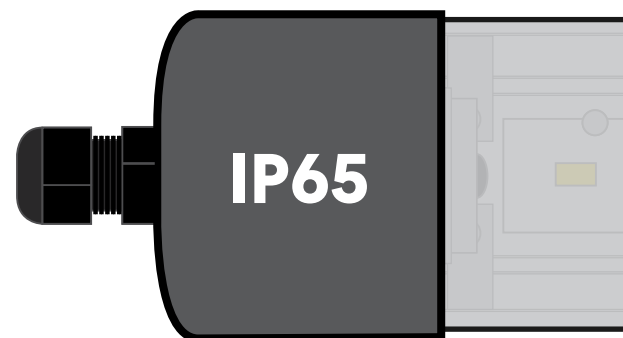
## Distribution option



**Wide (Frosted)**

## 3 Different protection grade options

**FROSTED DIFFUSER**



## Zone 1/2 Available in:

**Group I:** Mining applications  
(methane and coal dust risks)

**Group IIA:** Surface industries  
(general industrial gases like propane)



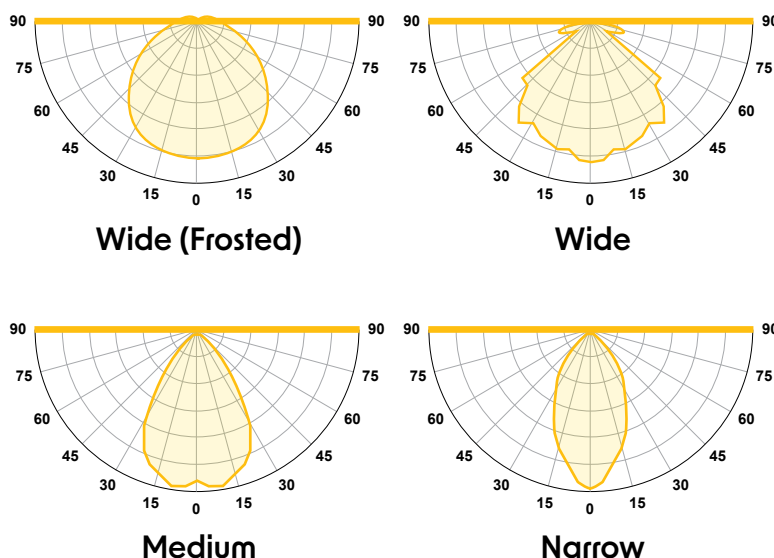


# Distribution Options

## Precision Lighting for Hazardous Environments.

**Optimal Illumination, Exactly Where You Need It** Our Zone 21/22 and Zone 1/2 LED luminaires offer precise light distribution for hazardous environments, maximizing visibility while minimizing glare. They feature specialized optics that effectively direct light, reducing waste and enhancing safety.

Available in various beam angles (30°, 60°, 90°, 110°, and asymmetrical for vertical illumination), they are ideal for targeted aisle lighting, deep rack storage, wide-area coverage, and optimized vertical illumination for shelving. Made with premium European components, these fixtures ensure durability and high-performance lighting in demanding industrial and commercial settings.



## A Closer Look

### Engineered to the highest standards.

#### Housing

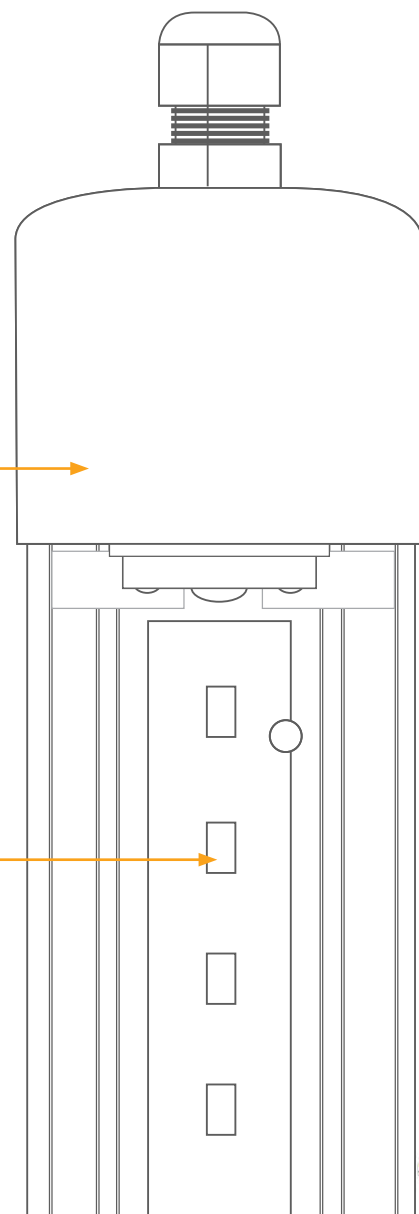
Designed & engineered using polycarbonate for harsh environments.

#### Driver

Only the highest quality drivers from Europe with F3, 4kV, 100K hours. Driver can either be housed within the LED tube or piggy backed in a separate tube above the LEDs.

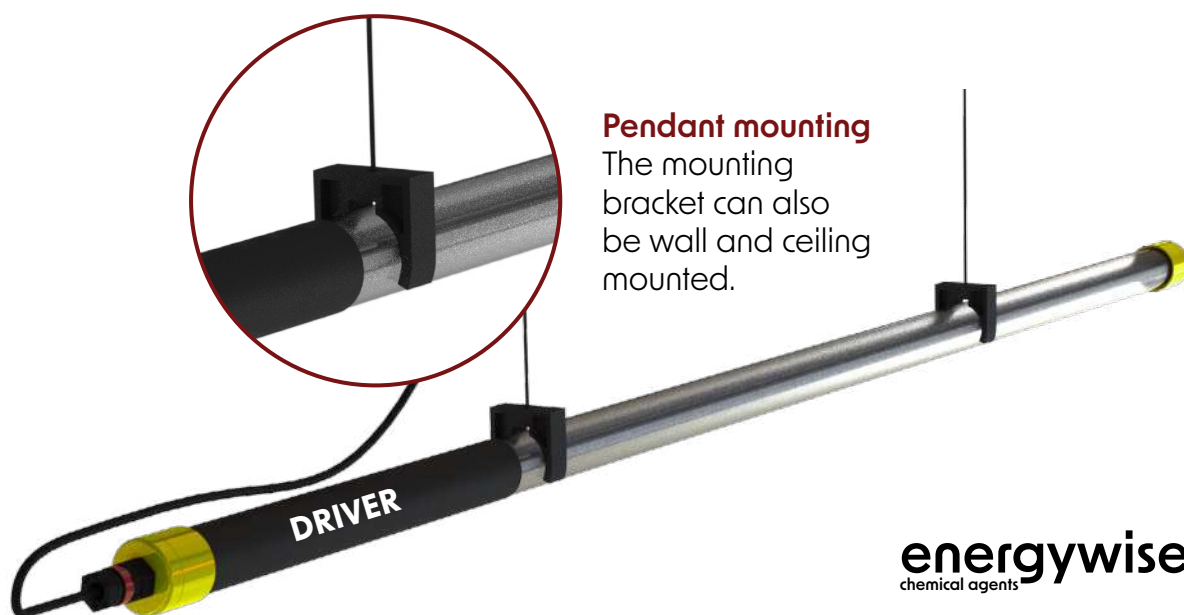
#### LEDs

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



# Installation & Configurations

Easy to install , **Saving** you time & money

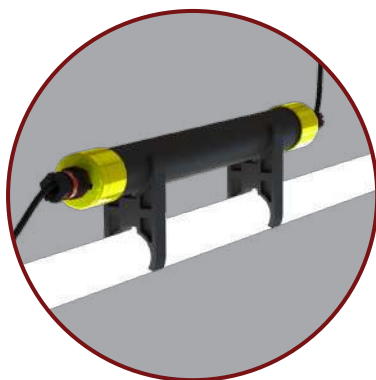


## Pendant mounting

The mounting bracket can also be wall and ceiling mounted.



**Banking / Stacking** - For increased lumen output.



**Remote Driver / Control Gear** - Piggy back driver configuration for uninterrupted light.

### 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).

## energywise

chemical agents

Resistance key:

✓ Resistant    ◉ Relatively Resistant    ⊗ Non-resistant

Chemical agent	Polycarbonate	Aluminum
Acetic acid 10%	✓	✓
Acetone	⊗	✓
Alcoholic beverages	✓	✓
Aluminum sulphate	✓	✓
Ammonia 5%	⊗	✓
Aniline	⊗	✓
Arsenic acid 20%	✓	✓
Benzene	⊗	✓
Benzyl alcohol	⊗	◉
Benzyl	⊗	✓
Bromine	⊗	⊗
Calcium Chloride	✓	✓
Calcium nitrate	✓	✓
Carbon tetrachloride	⊗	✓
Carbonic acid	⊗	✓
Caustic potash	⊗	⊗
Cement	✓	✓
Chlorhydric acid 1-5%	✓	⊗
Chlorine liquids (vapours)	⊗	⊗
Chloroform	⊗	✓
Chromic acid	⊗	⊗
Citric acid 20%	✓	✓
Copper sulphate	✓	⊗
Diesel-naphtha oil	⊗	✓
Ethyl alcohol	✓	✓
Ethyl chloride	⊗	⊗
Ethyl ether	⊗	✓
Food oils and fats	⊗	✓
Formic acid 10%	✓	⊗
Glycerine	✓	✓
Hexane	✓	✓
Iodine	⊗	⊗
Iron chloride	✓	⊗
Isopropyl alcohol	⊗	✓
Lubricating oil	✓	✓
Magnesium sulphate	✓	✓
Methanol	⊗	✓
Mineral oils	✓	✓
Nitric acid 20%	⊗	⊗
Oxygen	✓	✓
Ozone	✓	✓
Perchloric acid 10%	✓	⊗
Petrol	⊗	✓
Phenol	⊗	✓
Potassium bromide	✓	⊗
Potassium nitrate	✓	✓
Potassium permanganate	✓	✓
Sea climate	✓	⊗
Silicon oils	✓	✓
Soda bleach 15%	⊗	⊗
Sodium chloride	✓	⊗
Sodium hydroxide 5%	⊗	⊗
Sodium sulphate	✓	✓
Sugar	✓	✓
Sulphur	✓	✓
Sulphuric acid 30%	✓	⊗
Toluene	⊗	✓
Trichloroethylene	⊗	✓
Zinc sulphate	✓	⊗

# Features

Standard across the EX Pod range.



Indoor / Outdoor



Polycarbonate encapsulation.



Colour temperature 5600K



Colour rendition index 80+



L&B Life Rating: L90 B10, 30 000 hrs



Earth connection and CLASS I insulation fixture.



Optic impact rating IK08/5J.



Voltage surge protection up to 4 kV.



Suspended/pendent mount.



Plug & Play



Modular



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

# Extras

Optional Extras



IES files available.



VOLTpro

## 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.

Designed and  
Manufactured by

**energywise**

**Better Light  
Through Research.**

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



**MASC  
CERTIFIED**



**MADE IN  
SOUTH AFRICA**

# Energywise lighting options

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

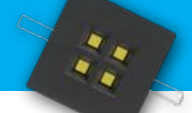

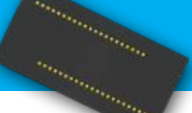




## INDUSTRIAL

						
<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.