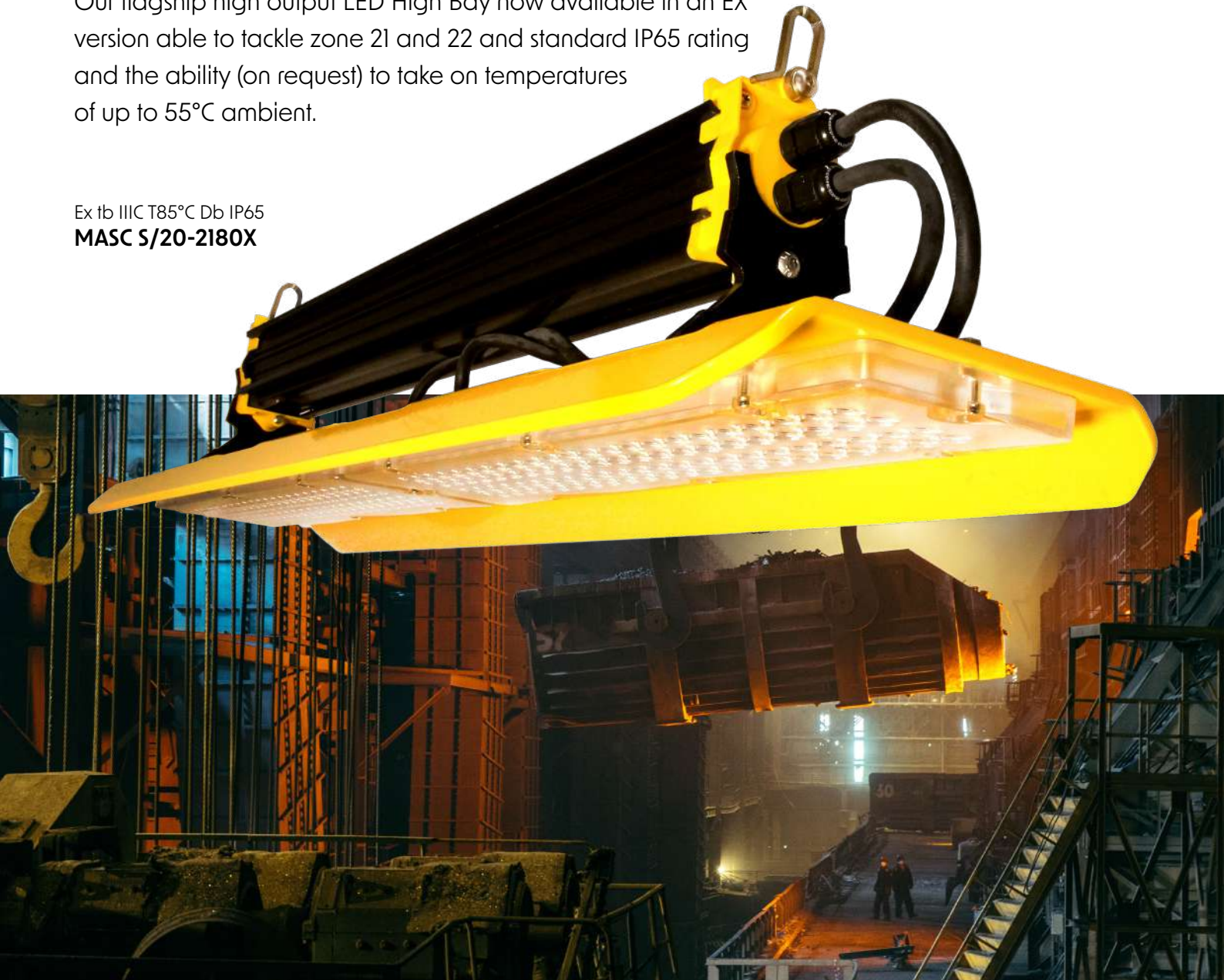# EX Bay ZONE 21/22

The bar just got raised.

Our flagship high output LED High Bay now available in an EX version able to tackle zone 21 and 22 and standard IP65 rating and the ability (on request) to take on temperatures of up to 55°C ambient.

Ex tb IIIC T85°C Db IP65
MASC S/20-2180X

**Lights on.
Work done.**

4kv

kV Protection:
Up to 4kV, 10kV
on request

**IP
65**

Indoor

IK08/5J

**Impact
Resistance:**
IK08/5J

energywise

**Better light
through research.**

INTRODUCING

Our industry leading Highbay with all the punch you could ask for now available with EX peace of mind.

Our EX Bay is 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 luminaries in some of the most rugged environments in Africa.

We then combined this chassis with EX technology sourced from the leading component manufacturers in both Europe and Asia. These new systems were then put through months of testing to ensure that the final product could deliver against our exacting specifications.

The final result, an EX light years in the making, yet at the leading edge of technological advancements in LED EX light technology available today.

*25°C is for Textbooks, Not Africa's Sun:
All EW Lights are designed for the 35°C Reality.

KEY FEATURES

MODULAR
- With extra Lumen Packages up to 120 000lm.

LENSES
- 4 different optics for countless optic combinations

3 SIZE OPTIONS
- EX Bay 102
- EX Bay 103
- EX Bay 104

OPTICS
- Impact rating IK08/5J

TEMPERATURE
- Ambient room temperature -25°C to +40°C. (Up to +55°C on request)

MOUNTING OPTIONS
- P2000 Trunking
- Pendant

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

GET IT ON
Google Play

Download on the
App Store

Designed &Tested here

Specifications

Specced for _every_ situation. All our EX BayXP fittings are zone 21 & 22 certified:
Ex tb IIIC T85°C Db IP65 - MASC S/20-2180X

4kv

kV Protection:
Up to 4kV, 10kV
on request

KELVIN

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

IP 65

Indoor

IK08/5J

**Impact
Resistance:**
IK08/5J

PC

LED Lenses:
Polycarbonate

Al stainless SS316

Construction:
Aluminum &
Stainless Steel

Modular:
Expandable
system

EX BayXP 102

Raw Lumen:	10568 lm	15640 lm	19908 lm
Effective Lumen:	8258 lm	12936 lm 1	15196 lm
240V:	**56W**	**93W**	**126W**
Power Factor:	0.96	0.96	0.96
Raw Efficacy:	189 lm/w	168 lm/w	159 lm/w
Effective Efficacy:	148 lm/w	139 lm/w	121 lm/w
Max ambient:	**50°C**	**45°C**	**40°C**
L&B:	L80 B10	L80 B20	L80 B50
	55°C 60K hrs	45°C 60K hrs	40°C 60K hrs

Fitting Size LxBxH: **650 x 175 x 145 mm**
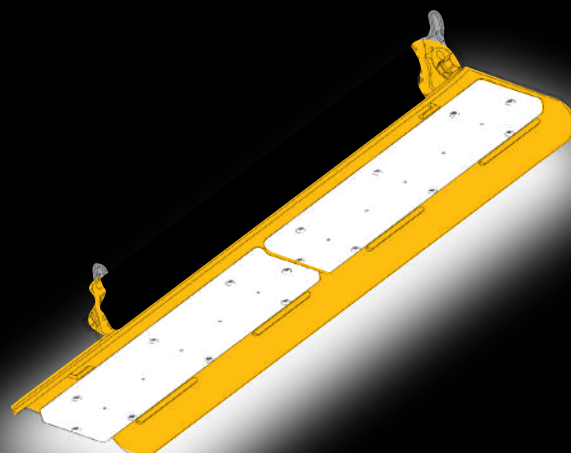
EX BayXP 103

Raw Lumen:	15852 lm	23460 lm	26811 lm
Effective Lumen:	12387 lm	19404 lm	23370 lm
240V:	**84W**	**140W**	**163W**
Power Factor:	0.97	0.97	0.97
Raw Efficacy:	189 lm/w	168 lm/w	165 lm/w
Effective Efficacy:	148 lm/w	139 lm/w	144 lm/w
Max ambient:	**50°C**	**45°C**	**40°C**
L&B:	L80 B10	L80 B20	L80 B50
	55°C 60K hrs	45°C 60K hrs	40°C 60K hrs

Fitting Size LxBxH: **850 x 175 x 145 mm**
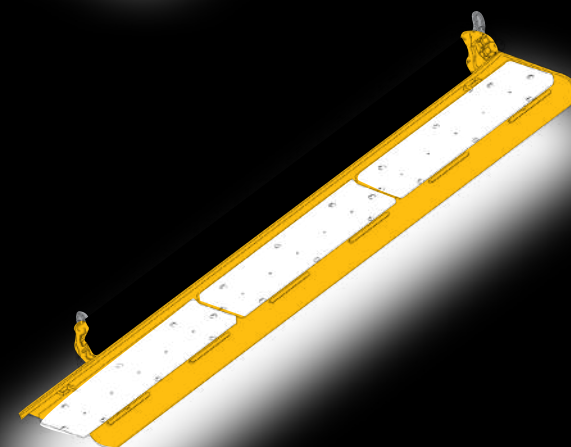
EX BayXP 104

|			
Raw Lumen:	21136 lm	31280 lm	39816 lm
Effective Lumen:	16516 lm	25872 lm	30392 lm
240V:	**112W**	**186W**	**251W**
Power Factor:	0.98	0.98	0.98
Raw Efficacy:	189 lm/w	168 lm/w	159 lm/w
Effective Efficacy:	148 lm/w	139 lm/w	121 lm/w
Max ambient:	**50°C**	**45°C**	**40°C**
L&B:	L80 B10	L80 B20	L80 B60
	55°C 60K hrs	45°C 60K hrs	40°C 60K hrs

Fitting Size LxBxH: **1150 x 175 x 145 mm**
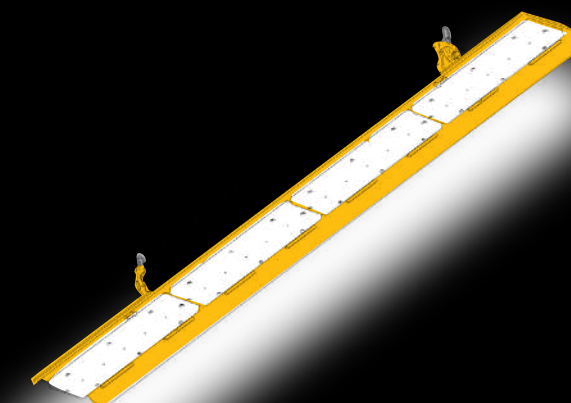
Distribution Options
The light you need, where you want it.

The development of high-quality optical lenses has changed the lighting game. Gone are the days of naked bulbs throwing out in a wide light spray covering everything from the ceiling above to the walls no one needs to see. With today's advancements in lens efficiency, we are able to put the light where you need it most providing you lux levels on both vertical and horizontal planes.

In so doing we can provide solutions for shelving or walkways, for punching deep through high-racks or throwing wide beams across open spaces. With these technologies, the only time you have dark spots is if you intentionally wanted to.

Narrow 30°

Medium 60°

Medium Wide 70°

Wide 110°
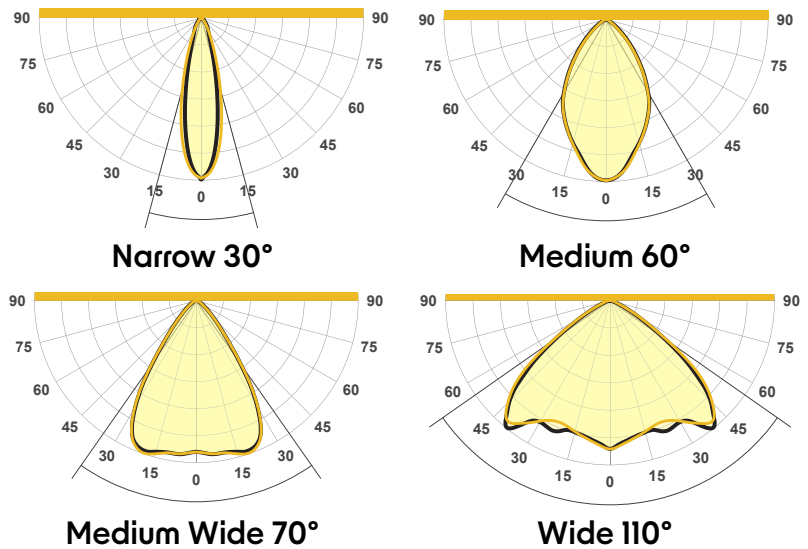
A Closer Look
Engineered to the highest standards.

Heat-sink

Aluminum heat-sink engineered to keep the LEDs comfortable up to an ambient of 40°C*. This radical design is also easier to clean fitting without compromising heat dissipation. (*Higher temp on request).
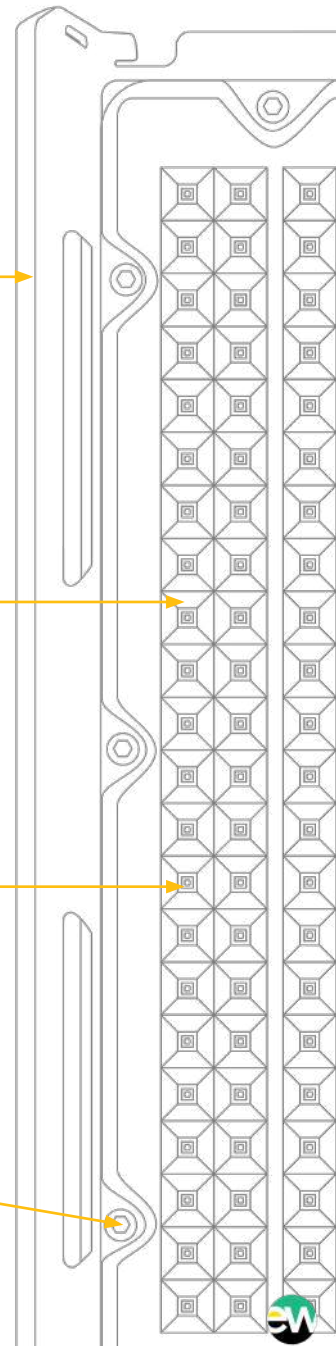
Lenses

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

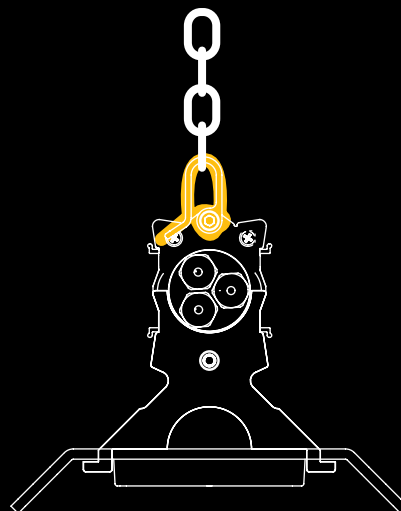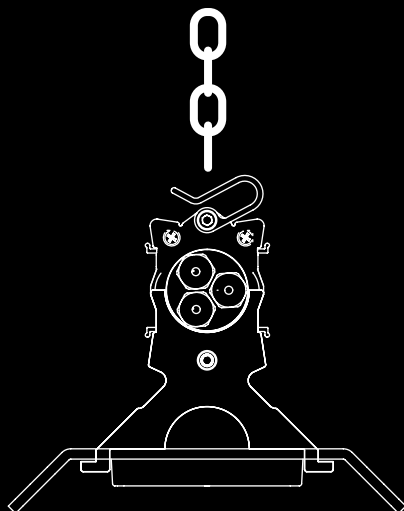All fasteners are Stainless Steel 316 rust free longevity.

Installation
Easy to install , Saving you time & money

The Bay XP family includes fittings of single or multiple side-by-side LED modules for suspension or surface mount applications. At IP65 they are capable of very high lumen output packages and suitable for installation from as low as 6m up to 25m.
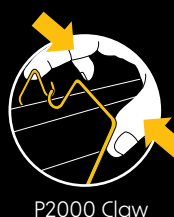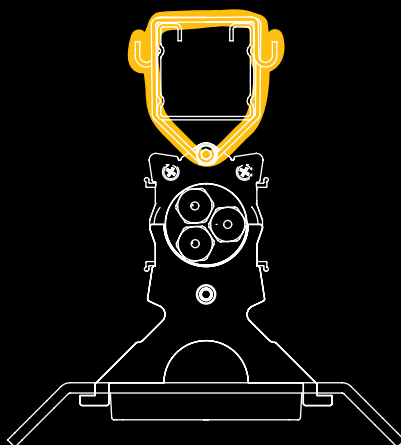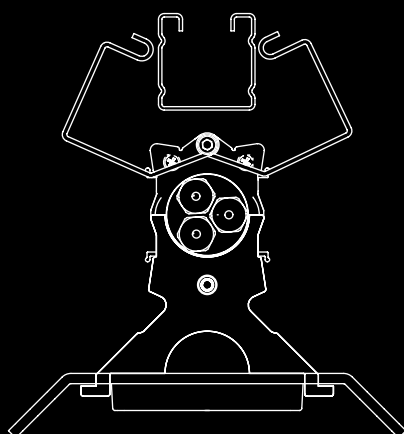
Suspension - Mini Shackle (Standard)
Quick snap-on hook attachment, no tools required.

Shackle

Claw - On request
Claw included on request, hooks directly onto P2000 Channel.

P2000 Claw

Effective lumen output after warm up:
We follow the same practice as other professional manufacturers in providing Effective Performance Data (Lumens, Watts and L&B) that are inclusive of driver and LED thermal losses during the warm-up period.
This can only be achieved by performing the Energy and Photometric Measurement after the LED, within the fitting, is left ON, until a stable and constant Lumen output is reached, ie. reaching a thermally stable condition within the LED assembly at a Ta of 35°C.
Unfortunately it's not uncommon to find suppliers using incomplete data suggesting Efficacy Lumen value to be 10 to 20% higher than the True Effective value.
This misrepresentation is achieved by using Raw LED photometric data that does not include any of the driver losses (generally 2–5 %) and any thermal adjustment losses (this can take 20–240 min & account for 7–15%)
In some extreme cases Effective Lumen is completely misquoted and only the Raw value is mentioned with much higher values.
In both these cases True Effective Lumen is misrepresented and unlawful.

Features

Standard across the EX Bay range.

IP 65 — Indoor

Recyclable.

PC — Polycarbonate Lens.

Serviceable: All units are serviceable and all parts replaceable.

KELVIN — 5000K Standard, 3000K, 4000K, 6500K on request.

CRI — Colour rendition index 80+

L&B — World class ED Life rating

Modular.

Earth connection and CLASS I insulation fixture.

IK08/5J — Optic impact rating IK08/5J.

4kv — Voltage surge protection up to 4Kv.

Al stainless SS316 — All screws & mini shackles in stainless steel 316.

Suspended by chain or steel cable. (not included)

5 year warranty: Please visit www.energywise.co.za

QMS-EXP-EWBR-240322

Extras

Optional Extras.

Bluetooth — Casambi bluetooth technology.

DALI — All units can be fitted with Dali or bi-level driver.

LUMEN / WATT — Excellent Luminous Efficacy (Lm/W)

10kv — Voltage surge protection. Up to 10kV.

.IES — IES files available.

P2000 Trunking mount

Energywise lighting options

Energywise specialises in LED luminaries 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 diffused low bay

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

RETROFIT

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 4LCO
Shops, Production facilities, showrooms.

Standard	
Height:	2.5- 10m
IP:	40
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, Racks etc.

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

EARTHaxis
Grow tent horticulture

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

Job done

energywise

Better light through research.