

# Bay XL

## Versatility in a robust package

Fully serviceable, high-powered LED Highbays designed for commercial as well as light and heavy industrial applications. With a unique modular platform allowing extreme versatility of configuration. Bay XL's are made standard with an IP40 rating as well as built-in 4kV surge protection (upgradeable with a replaceable 10kV module).



Industrial

IP 40

Lights on.  
Job done.



kV Protection:  
4kV surge  
protection

IP  
40

Indoor



SABS  
Approved

energywise

Better light  
through research.

# The light touch.



## A Highbay to suit your commercial needs.

First there was the Bay XP, the high powered, high IP king of industrial lights. But the demand for the same specs, for smaller environments was yet to be addressed. The Bay XL is that perfect combination of efficiency and power output at a lighter cost.

Our XL is the tailor made commercial partner for many businesses. From light industrial to commercial settings our XL ticks all the boxes. Furthermore, like a Swiss army knife it can be specified in a variety of ways to match your particular space and requirements.

No space is left unlit when you choose the Bay XL. It can be set up in long lengths up to 1.5m and daisy chained across a room. Side-by-side configurations of fittings can be used daisy chained to each other to allow for a single point electrical installation.

### KEY FEATURES

#### MODULAR

The fitting can reach a max lumen package of 36340lm, however, with our patented pairing bracket, we can bank as many fittings alongside each other as needed. In so doing your lumen package potential becomes almost exponential.

#### LENSES

- 4 different optics

#### 4 SIZE OPTIONS

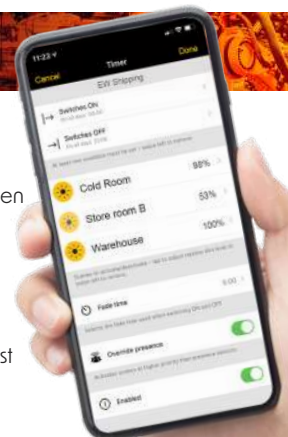
- Bay XL 101 (Split)
- Bay XL 102
- Bay XL 103
- Bay XL 104

#### OPTICS

- Impact rating IK08/5J

#### MOUNTING OPTIONS

- P2000 mount
- Ceiling mount
- Suspended / Pendant



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



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

# Specifications

Spec'd for **every** situation.

Our Bay XL can be manufactured to your desired specifications, see the options below.



**kV Protection:**  
Up to 4kV surge protection



**5000K standard**  
3000K, 4000K,  
6500K available  
CR>80 R9>I3

**IP  
40**

**Indoor**



**Recyclable**



**Lenses**



**Modular:**  
Expandable system

## Bay XL 102

Raw Lumen:  
Effective Lumen:

7918 lm  
6598 lm

8484 lm  
7532 lm

240V:  
Raw Efficacy:  
Effective Efficacy:

**47W**  
168 lm/w  
140 lm/w

**57W**  
150 lm/w  
133 lm/w

Max ambient:  
L&B:

**40°C**  
L80 B10  
50K hrs

**40°C**  
L80 B10  
50K hrs

**650 mm**

## Bay XL 103

Raw Lumen:  
Effective Lumen:

11877 lm  
9897 lm

12726 lm  
11298 lm

240V:  
Raw Efficacy:  
Effective Efficacy:

**71W**  
168 lm/w  
140 lm/w

**85W**  
150 lm/w  
133 lm/w

Max ambient:  
L&B:

**40°C**  
L80 B10  
50K hrs

**40°C**  
L80 B10  
50K hrs

**870 mm**

## Bay XL 104

Raw Lumen:  
Effective Lumen:

14376 lm  
13196 lm

16968 lm  
15064 lm

240V:  
Raw Efficacy:  
Effective Efficacy:

**94W**  
153 lm/w  
140 lm/w

**113W**  
150 lm/w  
133 lm/w

Max ambient:  
L&B:

**40°C**  
L80 B10  
50K hrs

**30°C**  
L80 B10  
50K hrs

**1200 mm**

## Bay XL 105

Raw Lumen:  
Effective Lumen:

17970 lm  
16495 lm

21210 lm  
18830 lm

240V:  
Raw Efficacy:  
Effective Efficacy:

**118W**  
153 lm/w  
140 lm/w

**141W**  
150 lm/w  
133 lm/w

Max ambient:  
L&B:

**40°C**  
L80 B10  
50K hrs

**30°C**  
L80 B10  
50K hrs

**1500 mm**



## Modularity, one fitting, many pairing options.

The Bay XL can be configured with up to 3 lights to fit the requirements of any space.

### Our other modular fittings.



## BayXL 202



### LED eBay Light industrial diffused low bay

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

### Bay XP Factories, Warehouses, Supply rooms etc.

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



**1 x 102** 7 532 lm

**1 x 103** 11 298 lm

**1 x 104** 15 064 lm

**1 x 105** 18 830 lm



**2 x 102** 15 064 lm

**2 x 103** 22 596 lm

**2 x 104** 30 128 lm

**2 x 105** 37 660 lm



**3 x 102** 22 596 lm

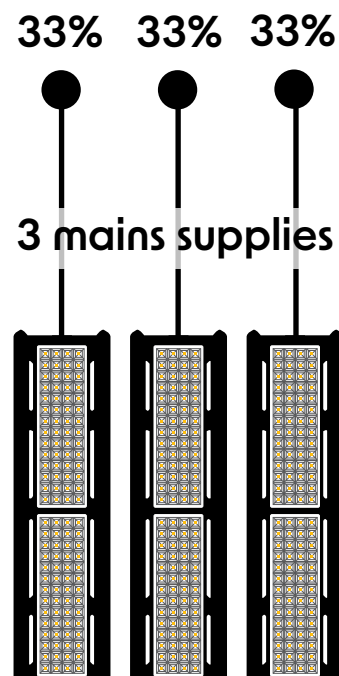
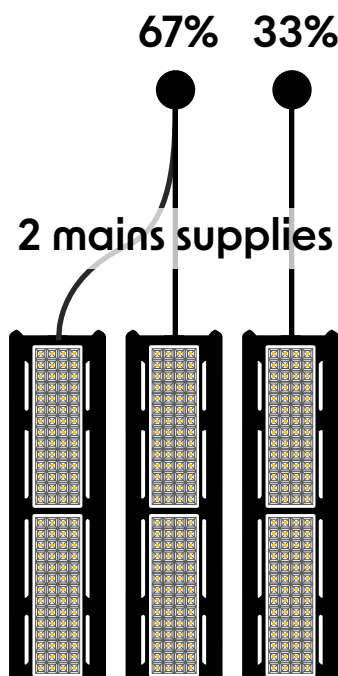
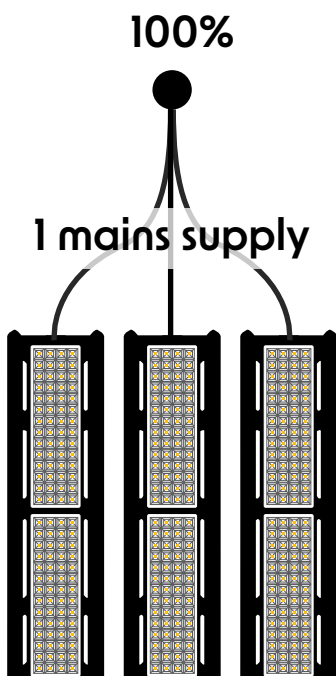
**3 x 103** 33 894 lm

**3 x 104** 45 192 lm

**3 x 105** 56 490 lm

## Suggested wiring options.

The Bay XL can be configured using a step switch system to manage your lights and power.

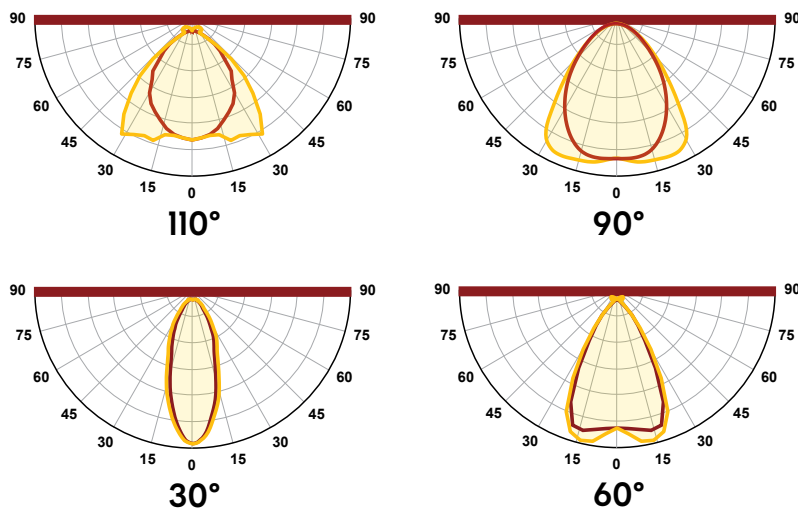


# Distribution Options

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 technology, we are able to put the light where you need it most providing you lux levels where you need it without sacrificing efficiency.

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.



## A Closer Look

Engineered to the highest standards.

### Heat-sink

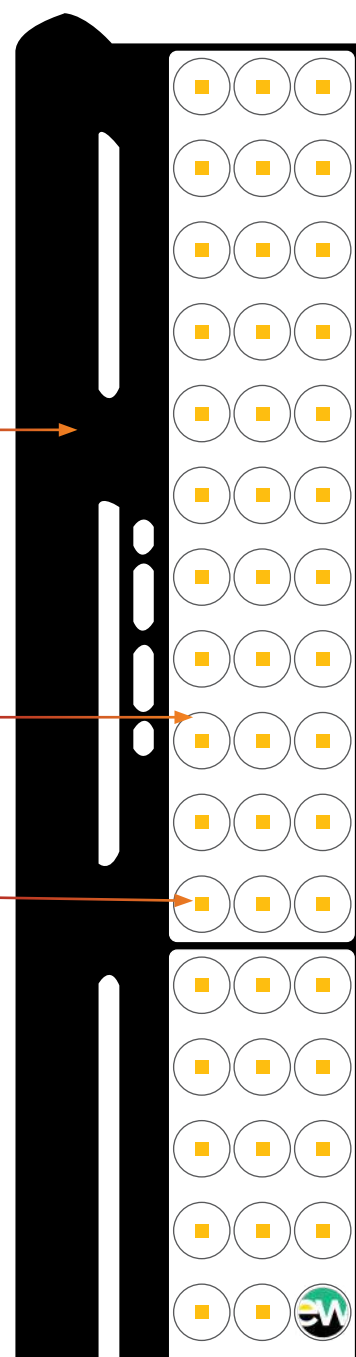
Aluminum heat-sink engineered to keep the LEDs comfortable up to an ambient of 35°C. This radical design is also easier to clean fitting without compromising heat dissipation.

### Lenses

Polycarbonate lens offer great IK08 impact protection and efficient distribution control.

### LEDs

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



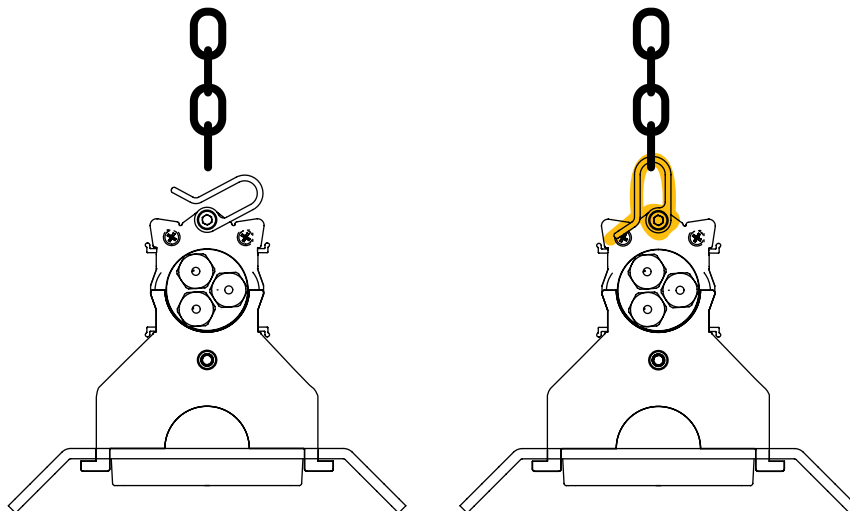
# Installation

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

The Bay XL family includes fittings of single or multiple side-by-side LED modules for suspension or surface mount applications. They are capable of high lumen output packages and suitable for installation from as low as 6m up to 8m.

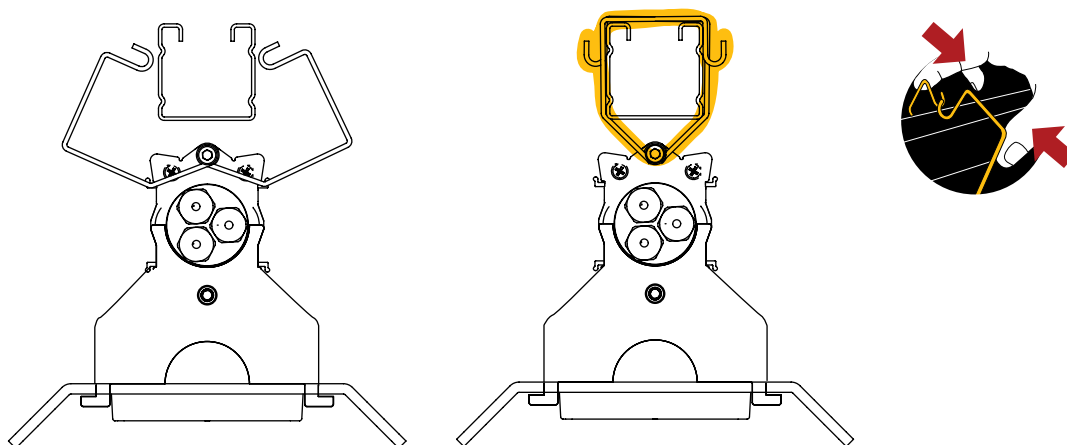
### Suspension - Mini Shackle (Standard)

Quick snap-on hook attachment, no tools required.



### Claw - On request

Claw included on request, hooks directly onto P2000 Channel.



#### Disclaimer:

Although every effort is made to ensure that at the time of publication, the technical details here within, are accurate, true and in line with the latest production specifications, we do reserve the right to change or upgrade any of the details without prior notice, agreement or warning, for any of our products or components.

Our products and their performance are in constant evolution through:

- technology upgrades to improve energy efficiency and performance, increased safety and cost effectiveness
- to comply or conform to suppliers updates or according to new safety standards.

The true nature of any upgrade is always to provide a better product, therefore, there will be no recourse for any complaints or claims of any nature regarding changes to specs.

We are ISO 9001-2015 compliant and our assembly line follows IEC 60958 guidelines – our products are covered by a Product Liability Policy.

Our LED products are covered by a 5 year warranty\*

\*T&C's apply, please check with Head Office for further details.

#### Effective lumen output after warmup:

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  $T_a$  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 Bay XL range.



Indoor.



Lenses.



Serviceable: All units are serviceable and all parts replaceable.



5600K Standard, 3000K, 4000K, 6500K on request.



Colour rendition index 80+



Top Bin Chips <3 MacAdams



Modular.



Earth connection and CLASS I insulation fixture.



Optic impact rating IK08/5J.



Voltage surge protection up to 4Kv.



All screws & mini shackles in stainless steel.



Suspended by chain or steel cable. (not included)



Plug & Play.



Recyclable.

# Extras

Optional Extras.



Casambi bluetooth technology.



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



Excellent Luminous Efficacy (Lm/W)



Voltage surge protection. Up to 10kv.



IES files available.



P2000 Trunking mount



Motion sensor



**5 year warranty:**

Please visit [www.energywise.co.za](http://www.energywise.co.za)

Designed and  
Manufactured by

**energywise**

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Through Research.

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# 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.