

Bay XL |

Industrial

IP 40

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).



Proudly manufactured in South Africa using European LED Technology



kV Protection: 4kV surge protection



Indoor



SABS Approved



5 Year Warranty

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 20m high 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 18,830 lm, 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 for multiple lens combinations.

4 SIZE OPTIONS

- Bay XL 102
- Bay XL 103
- Bay XL 104
- Bay XL 105

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 30°C Reality. Minimum.

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>13



Indoor



Recyclable



Lenses



SABS
Approved



L&B Rating:
L80 B10
50 000 hrs

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 x 153mm

Bay XL 103

Raw Lumen:
Effective Lumen:

11,877 lm
9897 lm

12,726 lm
11,298 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 x 153mm

Bay XL 104

Raw Lumen:
Effective Lumen:

14,376 lm
13,196 lm

16,968 lm
15,064 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 x 153mm

Bay XL 105

Raw Lumen:
Effective Lumen:

17,970 lm
16,495 lm

21,210 lm
18,830 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 x 153mm



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

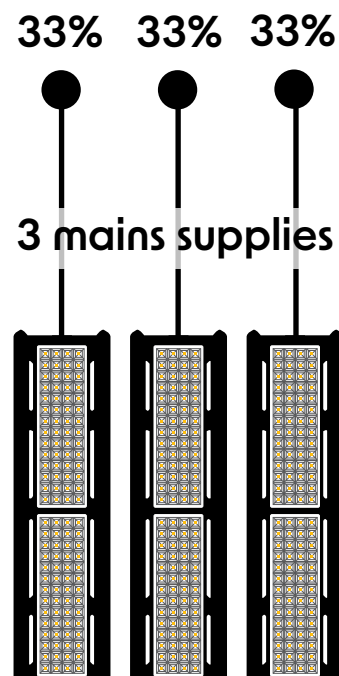
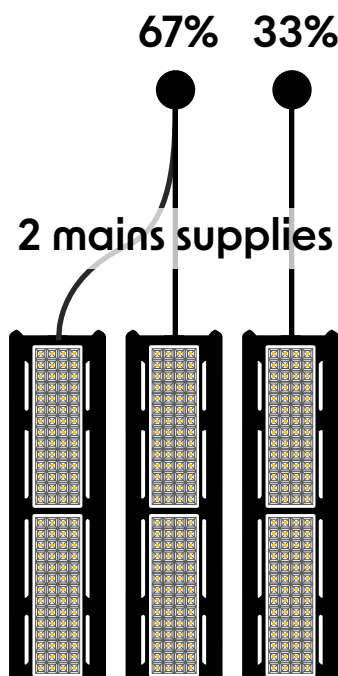
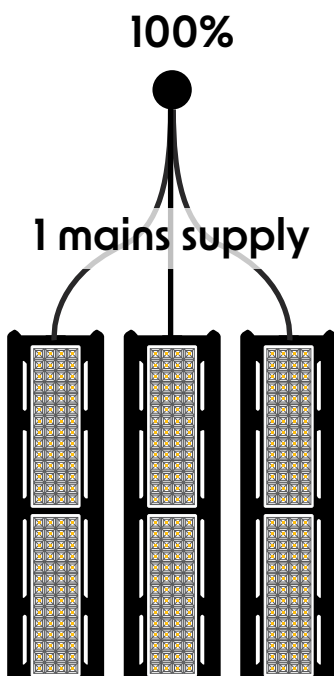
3 x 103 33 894 lm

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.

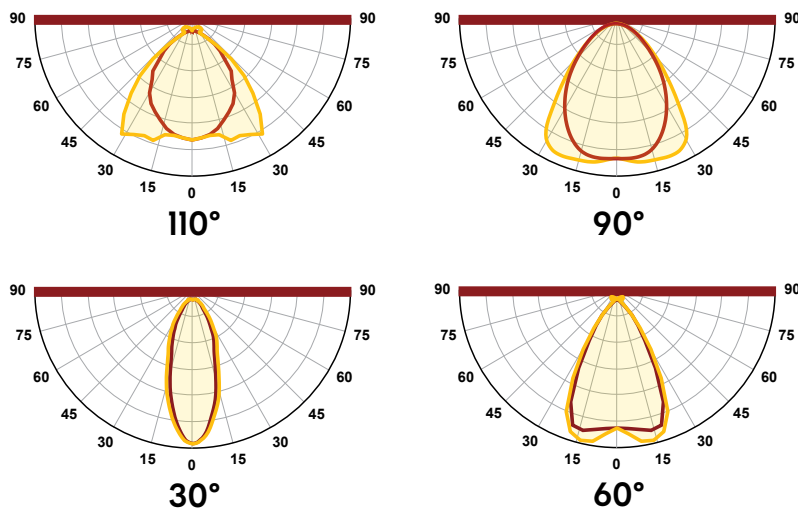


Distribution Options

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

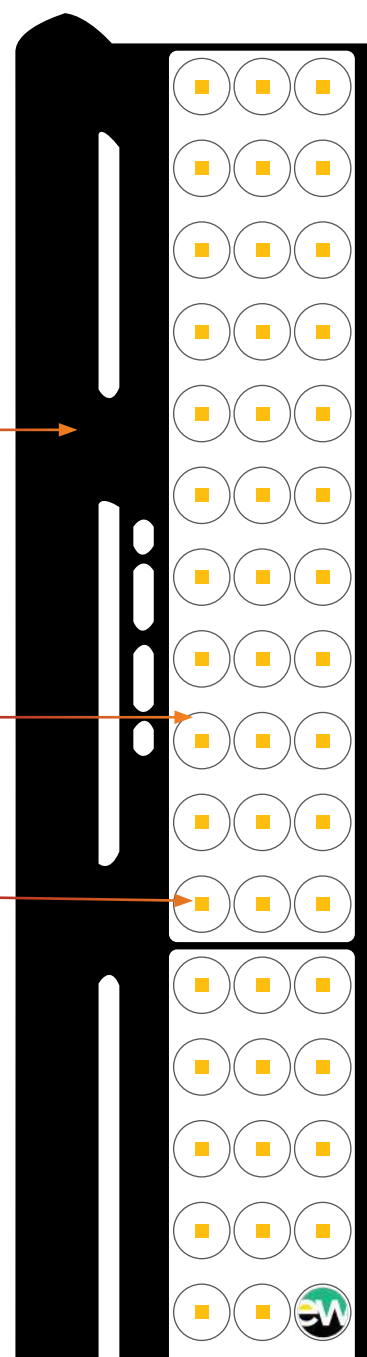
Aluminum heat-sink engineered to keep the LEDs comfortable up to an ambient of 35°C. This radical design is also easier to clean fitting without compromising heat dissipation.

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.



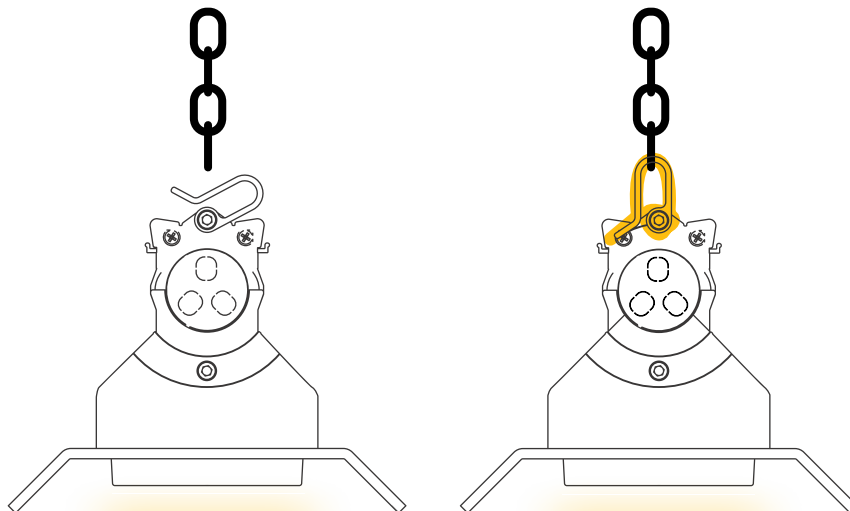
Installation

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 3m up to 20m high.

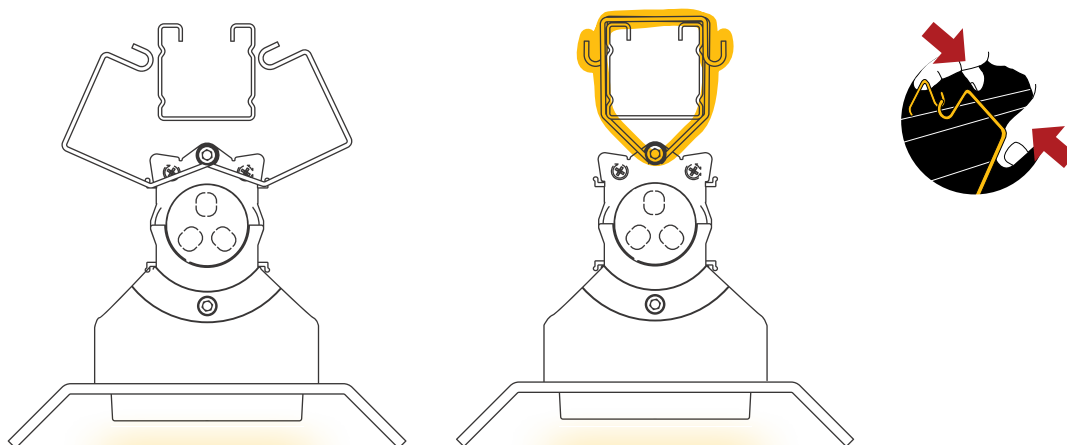
Suspension - Mini Shackle (Standard)

Quick snap-on hook attachment, no tools required.



Claw - On request

Claw included on request, hooks directly onto P2000 Channel.



Disclaimer:

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 Bay XL range.



SABS Approved



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.



L&B Life Rating: L80 B10, 50 000 hrs

Extras

Optional Extras.



Casambi bluetooth technology.



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



Voltage surge protection. Up to 10kV.



IES files available.



P2000 Trunking mount



Motion sensor



VOLTpro



Different colour options.



5 year warranty:

Please visit www.energywise.co.za

Designed and
Manufactured by

energywise

Better Light
Through Research.

sales@energywise.co.za | 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



SABS
APPROVED



MADE IN
SOUTH AFRICA

Energywise lighting options

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

INDUSTRIAL



Bay XP
Factories, Warehouses,
Cold rooms etc.

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



**VANDAL-RESISTANT
DUSTPROOF** Car parks,
Corridors, Mills.

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



PUREBox Panel
Medical & laboratory,
Clean rooms etc.

Standard
Height: 3-5m
IP: 54
Temp: 35°C



Torch Bulkhead
Heavy industrial areas.

Standard
Height:
IP: 65
Temp: 30°C



Pod IP65
Tamperproof and
nearly unbreakable.

Standard
Height: 2-5m
IP: 65
Temp: 35°C



Bay XF
Get the job done,
Glare-Free.

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



Plate XP
Swiss army knife
of lighting.

Standard
Height: 6-25m
IP: 65
Temp: 35°C



TOBLO bay
Factories, Warehouses,
Supply rooms etc.

Standard
Height: 6-25m
IP: 40
Temp: 40/30°C



Bay XT
Distribution centers,
Warehouses etc.

Standard
Height: 3-20m
IP: 40
Temp: 35°C

RETROFIT



Retrofit 44
Converting old HID
tech to LED

Standard
IP: 00
Temp: 30°C



Retrofit 22
Converting old HID
bulkhead to LED

Standard
IP: 00
Temp: 35°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



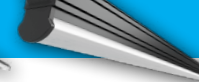
LEDrail 8000
Retail, board rooms,
department stores.

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



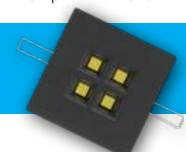
LEDrail 4LCO
Shops, Production
facilities, showrooms etc

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



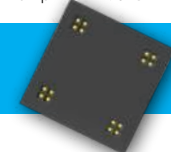
Linear 4-300
Glare free
precision lighting

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



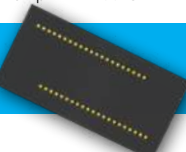
Downlighter
Offices, retail and
hospitality settings.

Standard
IP: 40
Temp: 30°C



Panel 595x595
Offices, healthcare,
educational facilities.

Standard
IP: 40
Temp: 30°C



Panel 1195x595
Offices, commercial,
educational settings.

Standard
IP: 40
Temp: 30°C

EX



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

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



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

Standard
Height: 2.5-8m
IP: 65
Temp: 35°C



EX DUSTPROOF
Warehouses, Car
parks, Corridors, Mills.

Standard
Height: 2.5-8m
IP: 65
Temp: 35°C



EX Pod
Factories, Mines,
Marine etc.

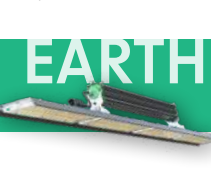
Standard
Height: 2-5m
IP: 68
Temp: 40°C

EARTH



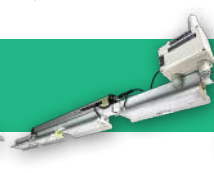
EX Torch
Heavy industrial
areas.

Standard
IP: 65
Temp: 40°C



EARTHbay
Horticulture, Open
areas etc

Standard
From canopy: 0.5-2m
IP: 65
Temp: 35°C



EARTHplate
Horticulture, Rack/
Under shelf etc

Standard
From canopy: 0.4-2m
IP: 65
Temp: 35°C



EARTHpod
Horticulture,
Propagation, Racks etc.

Standard
From canopy: 0.2-1m
IP: 65
Temp: 35°C

Lights on. Job done.

energywise

Better light
through research.