

Bay XP



Industrial

IP 65

High Output. High IP. High Bay.

Our high temp, LED High Bay is able to take on almost any environment thanks to its standard IP65 rating and ability to tackle temperatures of up to 65 degrees ambient. The Bay XP is engineered for peak performance and unparalleled efficiency, producing more lumen output with less energy.



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.

Our Flagship Highbay



More lumen output, with Less energy utilised.

Equipped with cutting-edge LED technology, the Bay XP redefines lighting efficiency and performance. The Bay XP maximizes light output while minimizing energy consumption, making it not only powerful but also environmental conscious.

This innovative design ensures that less power is required, resulting in more effective energy use and reduced heat losses. The lower heat generation translates to decreased strain on air handling systems, leading to significant cost savings on cooling and overall operational expenses.

Ideal for spaces where both high performance and energy efficiency are paramount, the Bay XP offers brilliant illumination with a focus on sustainability and cost-effectiveness. Illuminate your space with the Bay XP, where cutting-edge technology meets smarter efficiency.

KEY FEATURES

MODULAR

- The fitting can reach a max lumen package of 40,848 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

- 3 different optics for multiple lens combinations.

3 SIZE OPTIONS

- Bay XP 102
- Bay XP 103
- Bay XP 104

OPTICS

- Impact rating IK08/5J

TEMPERATURE

- Ambient room temperature -25°C to +45°C. (Up to +65°C on request)

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 XP can be manufactured to your desired specifications, see the options below.



kV Protection:
4kV surge
protection



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



Indoor



Recyclable



Lenses



SABS
Approved



L&B Rating:
L90 B10
50 000 hrs

Bay XP 102 700 x 173mm

Raw Lumen:	11,908 lm	20,534 lm	23,100 lm
Effective Lumen:	10,568 lm	18,150 lm	20,424 lm
Wattage:	62W	115W	123W
Raw Efficacy:	194 lm/w	179 lm/w	188 lm/w
Effective Efficacy:	172 lm/w	158 lm/w	166 lm/w
Max Ta:	65°C	45°C	30°C
L&B:	L80 B50	L90 B10	L90 B10
Hrs:	50000hrs	50000hrs	50000hrs



Bay XP 103 1000 x 173mm

Raw Lumen:	17,862 lm	27,300 lm	34,650 lm
Effective Lumen:	15,852 lm	23,850 lm	30,636 lm
Wattage:	92W	145W	185W
Raw Efficacy:	194 lm/w	189 lm/w	188 lm/w
Effective Efficacy:	172 lm/w	165 lm/w	166 lm/w
Max Ta:	65°C	45°C	35°C
L&B:	L80 B50	L90 B10	L90 B10
Hrs:	50000hrs	50000hrs	50000hrs



Bay XP 104 1350 x 173mm

Raw Lumen:	23,816 lm	41,068 lm	46,200 lm
Effective Lumen:	21,136 lm	36,300 lm	40,848 lm
Wattage:	123W	230W	246W
Raw Efficacy:	194 lm/w	179 lm/w	188 lm/w
Effective Efficacy:	172 lm/w	158 lm/w	166 lm/w
Max Ta:	65°C	45°C	35°C
L&B:	L80 B50	L90 B10	L90 B10
Hrs:	50000hrs	50000hrs	50000hrs



Modularity, one fitting, many pairing options.

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

Our other modular fittings.



BayXP 202



LED eBay Light industrial diffused low bay

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



Bay XL Factories, Warehouses, Supply rooms etc.

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



1 x 102 20 424 lm
1 x 103 30 636 lm
1 x 104 40 848 lm



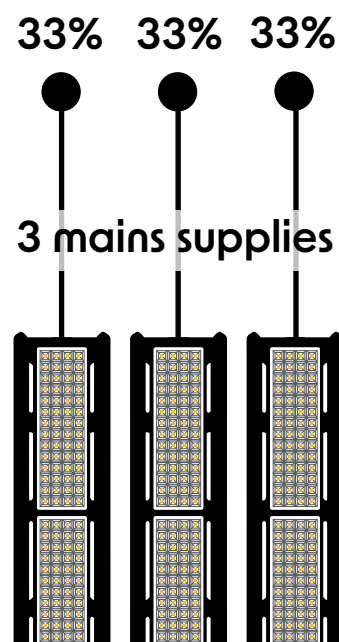
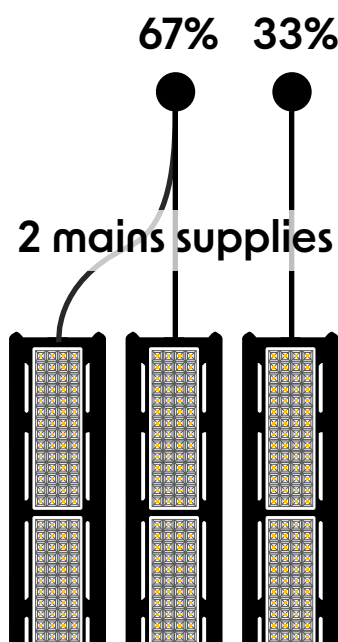
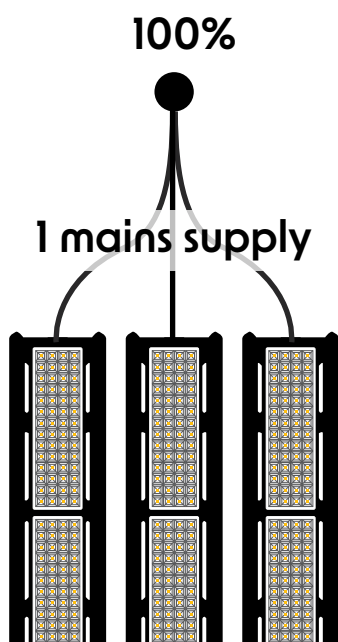
2 x 102 40 848 lm
2 x 103 61 272 lm
2 x 104 81 696 lm



3 x 102 61 272 lm
3 x 103 91 908 lm
3 x 104 122 544 lm

Suggested wiring options.

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

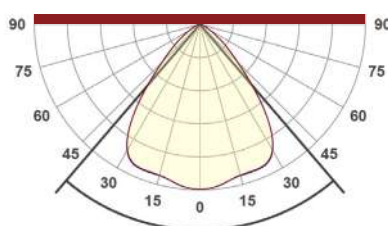


Distribution Options

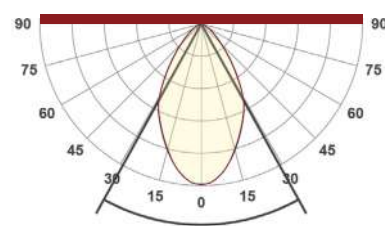
The light you need, where you want it.

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.

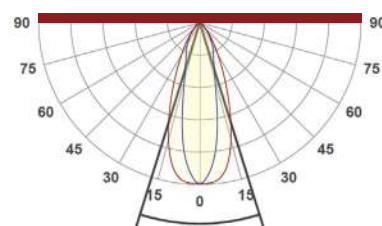
In so doing we can provide solutions for warehouses or shelving, for punching deep through high-racks or throwing wide beams across open spaces. With these technologies, the only time you have dark spots is if you intentionally wanted to.



Wide 90°



Medium 60°



High Rack

A Closer Look

Engineered to the highest standards.

Heat-sink

Aluminum heat-sink engineered to keep the LEDs comfortable up to an ambient temperature of 65°C. This radical design is also easier to clean and has been spec'd for African conditions where upwards of 30 degrees is more the norm than the exception.

Lenses

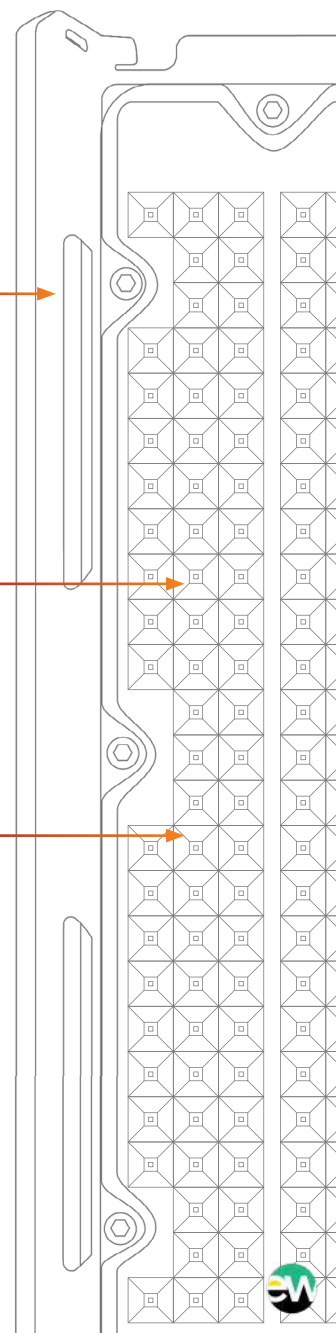
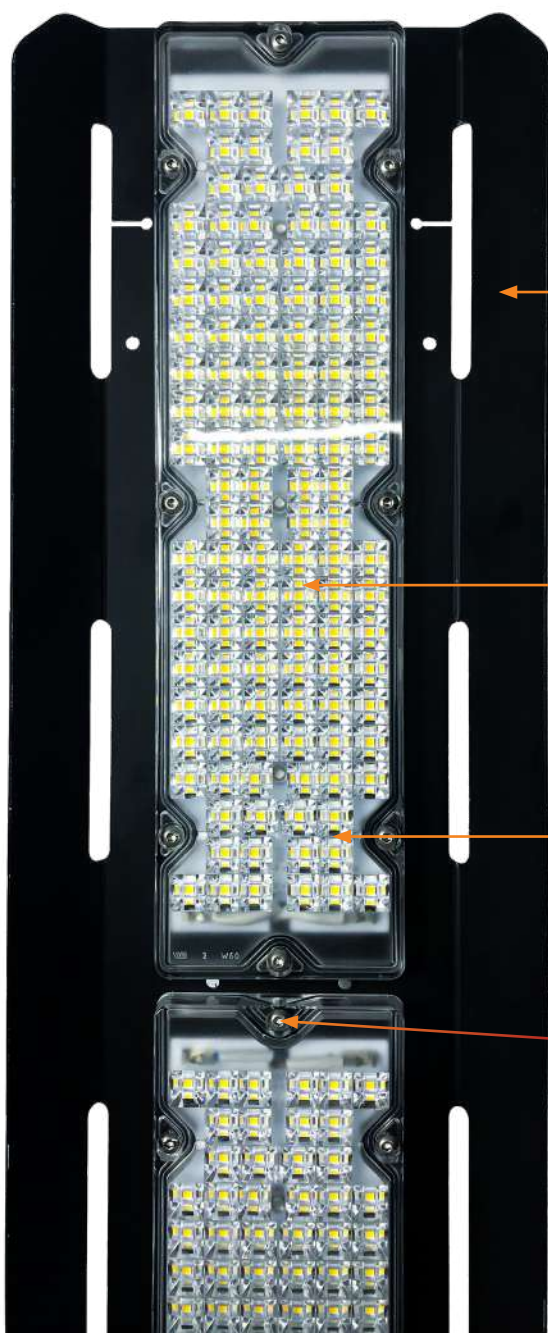
Polycarbonate lenses offer great IK08/5J impact protection and efficient distribution control. The continuous silicone gasket allows a water-resistant (IP65) assembly.

LEDs

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

Finishings

All fasteners are Stainless Steel 316 rust free longevity.



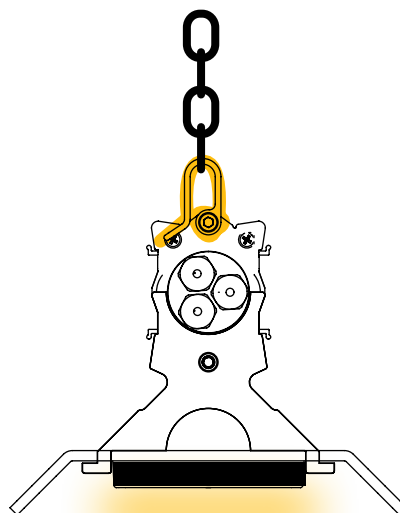
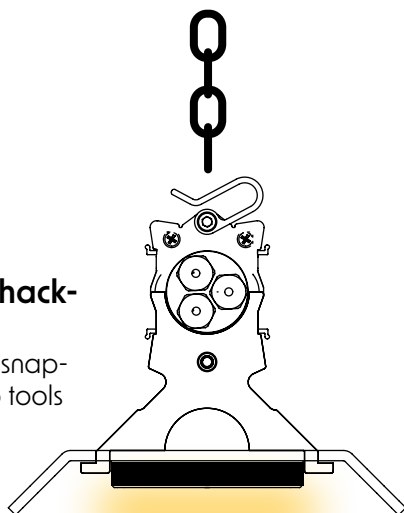
Installation

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

The Bay XP 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 Shack- **le (Standard)**

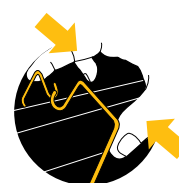
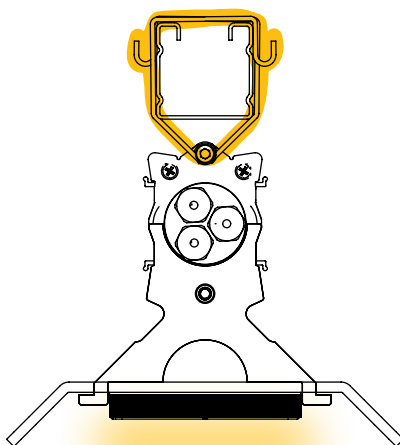
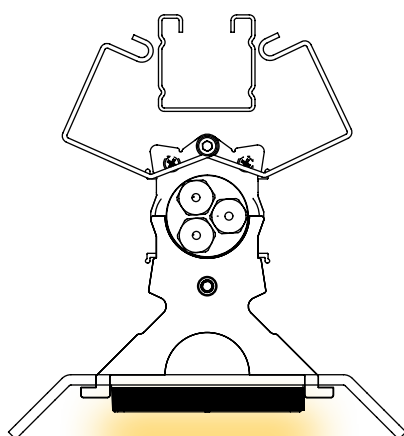
Stainless Steel 316 quick snap-on hook attachment, no tools required.



Shackle

Claw - On request

Spring steel claw included on request, hooks directly onto P2000 Channe



P2000 Claw

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 XP range.



SABS Approved

IP
65

Indoor



Serviceable: All units are serviceable and all parts replaceable.



5000K 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 4Kv.



All screws & mini shackles in stainless steel 316.



Suspended by chain or steel cable. (not included)



Lenses.



L&B Life Rating: L90 B10, 50 000 hrs



Excellent Luminous Efficacy (Lm/W)

Extras

Optional Extras.



Casambi bluetooth technology.



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



Replaceable 10kV surge protection modules available.



IES files available.



P2000 Trunking mount



Motion Sensor.



VOLTpro



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

Physical address: Unit 5 Edstan Business Park, 2 Ibhubesi 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.	Bay XL Factories, Warehouses, Supply rooms etc.	Bay XE Factories, Warehouses, Supply rooms etc.	DUSTPROOF Warehouses, Car parks, Corridors.	VANDAL-RESISTANT DUSTPROOF Car parks, Corridors, Mills.	PUREBox Panel Medical & laboratory, Clean rooms etc.	Torch Bulkhead Heavy industrial areas.
Standard Height: 6-25m IP: 65 Temp: 40/65°C	Standard Height: 3-20m IP: 40 Temp: 30°C	Standard Height: 6-25m IP: 20 Temp: 30°C	Standard Height: 2.5-8m IP: 66 Temp: 35°C	Standard Height: 2.5-8m IP: 66 Temp: 35°C	Standard Height: 3-5m IP: 54 Temp: 35°C	Standard Height: 6-25m IP: 65 Temp: 30°C





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

RETAIL & COMMERCIAL

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

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

EARTH

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

Lights on. Job done.

energywise

Better light
through research.