

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 65°C ambient.

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



Proudly manufactured in
South Africa using
European LED Technology



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



Indoor



**Impact
Resistance:**
IK08/5J



**5 Year
Warranty**

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 30°C Reality. Minimum.

KEY FEATURES

MODULAR

- With extra Lumen Packages up to 40,800 lm.

LENSES

- 3 different optics for multiple lens 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 +45°C. (Up to +65°C on request)

MOUNTING OPTIONS

- P2000 Trunking
- Pendant



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



Specifications

Spec'd for **every** situation. All our EX BayXP fittings are zone 21 & 22 certified:
Ex 1b IIC T85°C Db IP65 - MASC S/20-2180X



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



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



Indoor



Impact Resistance:
IK08/5J



LED Lenses:
Polycarbonate



Construction:
Aluminum &
Stainless Steel



Modular:
Expandable
system

EX BayXP 102

Raw Lumen:
Effective Lumen:

11,908 lm
10,568 lm

18,200 lm
15,900 lm

23,100 lm
20,424 lm

Wattage:
Power Factor:
Raw Efficacy:
Effective Efficacy:

62W
0.96
194 lm/w
172 lm/w

96W
0.96
189 lm/w
165 lm/w

124W
0.96
188 lm/w
166 lm/w

Max Ta:
L&B:
Hrs:

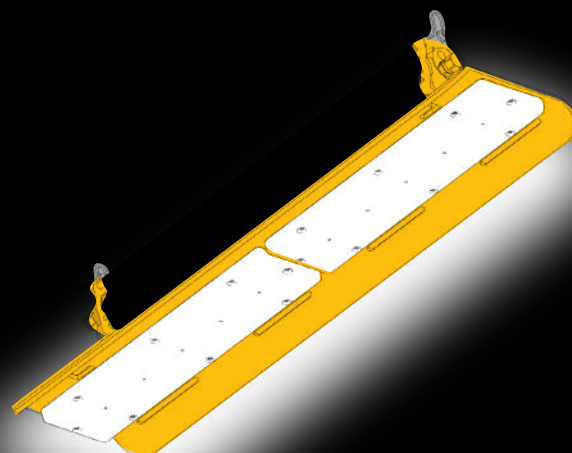
65°C
L80 B50
50 000 Hrs

45°C
L90 B10
50 000 Hrs

35°C
L90 B10
50 000 Hrs

Fitting Size:

700 x 173mm



EX BayXP 103

Raw Lumen:
Effective Lumen:

17,862 lm
15,852 lm

27,300 lm
23,850 lm

30,801 lm
27,225 lm

Wattage:
Power Factor:
Raw Efficacy:
Effective Efficacy:

92W
0.97
194 lm/w
172 lm/w

145W
0.97
189 lm/w
165 lm/w

173W
0.97
179 lm/w
158 lm/w

Max Ta:
L&B:
Hrs:

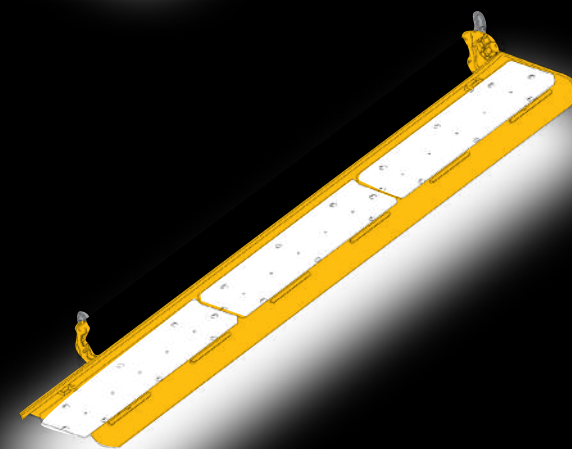
65°C
L80 B50
50 000 Hrs

45°C
L90 B10
50 000 Hrs

35°C
L90 B10
50 000 Hrs

Fitting Size:

1000 x 173mm



EX BayXP 104

Raw Lumen:
Effective Lumen:

23,816 lm
21,136 lm

36,400 lm
31,800 lm

46,200 lm
40,848 lm

Wattage:
Power Factor:
Raw Efficacy:
Effective Efficacy:

123W
0.98
194 lm/w
172 lm/w

193W
0.98
189 lm/w
165 lm/w

246W
0.98
188 lm/w
166 lm/w

Max Ta:
L&B:
Hrs:

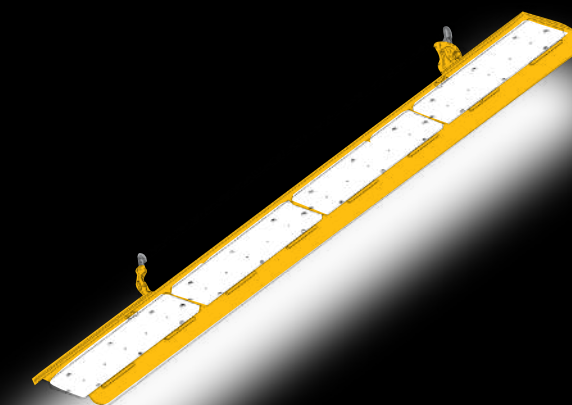
65°C
L80 B50
50000 Hrs

45°C
L90 B10
50 000 Hrs

35°C
L90 B10
50 000 Hrs

Fitting Size:

1350 x 173mm

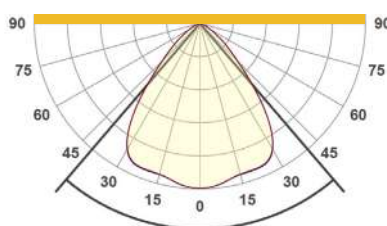


Distribution Options

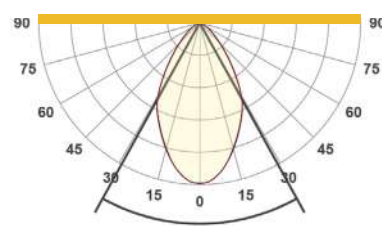
The light you need, where you want it.

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.

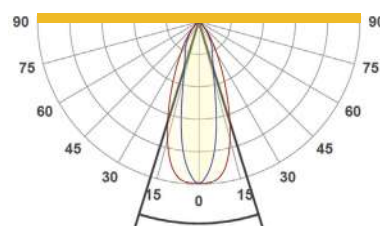
In so doing we can provide solutions for shelving or walkways, for punching deep through high-racks or throwing wide beams across open spaces. With these technologies, the only time you have dark spots is if you intentionally wanted to.



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 of 45°C*. This radical design is also easier to clean fitting without compromising heat dissipation. (*Higher temp on request).

Lenses

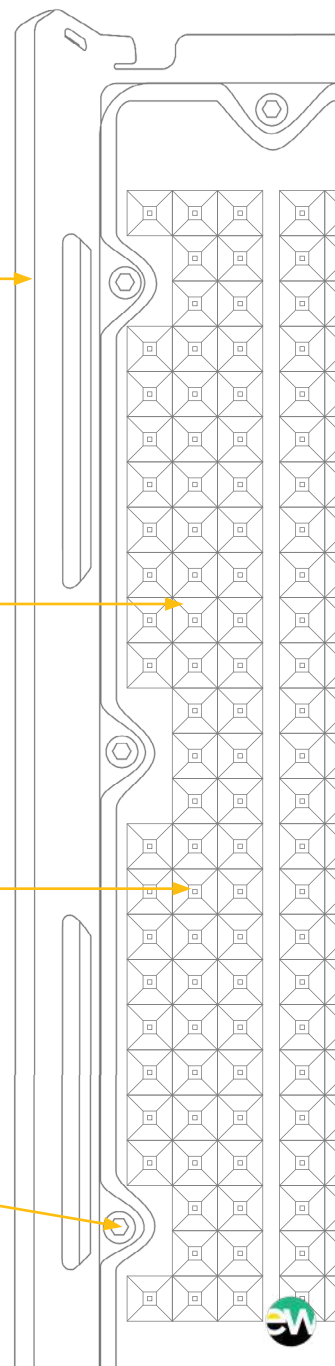
Polycarbonate lens offer great IK08 impact protection and efficient distribution control. The continuous silicone gasket allows a water-resistant (IP65) assembly.

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.



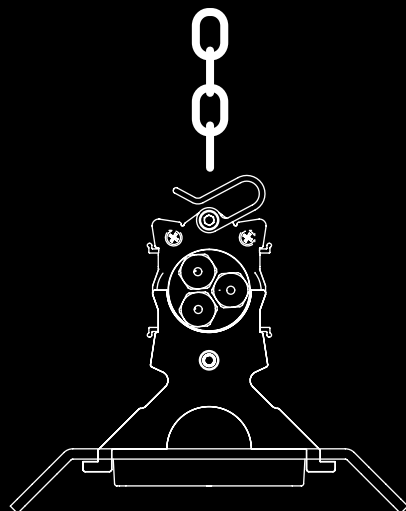
Installation

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.

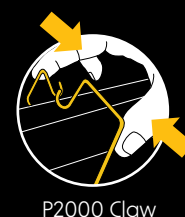
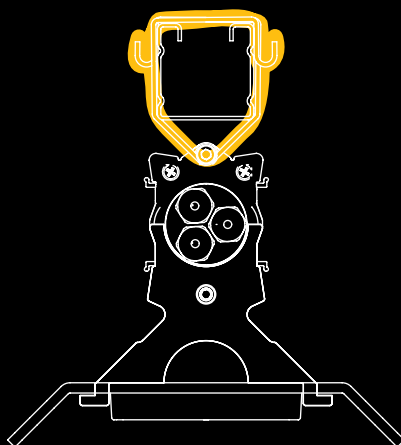
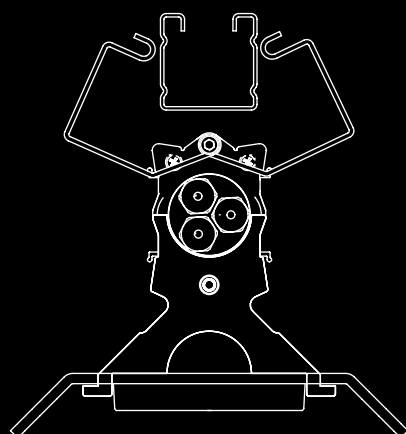
Suspension - Mini Shackle (Standard)

Quick snap-on hook attachment, no tools required.



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 EX Bay range.



Indoor



Sustainably Recyclable.



Polycarbonate Lens.



Serviceable: All units are serviceable and all parts replaceable.



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



Colour rendition index 80+



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



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 316.



Suspended by chain or steel cable. (not included)



Excellent Luminous Efficacy (Lm/W)



Top Bin Chips <3 MacAdams

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



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 / +27 87 941 0012

Physical address: Unit 5 Edstan Business Park, 2 Ibhumbesi Road, Riverhorse Valley, Durban, South Africa, 4017

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



Permit number
MASC-098MR



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.