

# LOBOX BAY

Available in  
**Black & White**



## Different build, same trusted performance.

LOBOX BAY takes the proven power of the Bay XP and reinforces it with 3CR12 enclosure. Built to handle heat, corrosion, and harsh conditions. This under cover IP65-rated LED with its epoxy-coated aluminium heat sink is ideal for petrol stations, canopy lighting, and demanding industrial zones.

Industrial

IP  
65



Proudly manufactured in  
**South Africa** using  
European LED Technology



**kV Protection:**  
4kV surge  
protection



**L&B Rating:**  
L80 B10  
90 000 hrs



**Optic Impact  
Rating:**  
IK08/5J.



**5 Year  
Warranty**

**energywise**

Better light  
through research.

# A Tough nut to crack

## Same trusted core. Reinforced to endure.

LOBOX BAY is the evolution of trusted performance — engineered for environments where ordinary fittings just don't cut it. Based on our high-efficiency Bay XP platform, the LOBOX BAY retains everything that makes the original great: powerful lumen output, energy-saving performance, and long-term reliability. But now, it's housed in an even tougher shell, perfect for under canopy applications.

Its outer body is fabricated from 3CR12 stainless steel. Whether exposed to corrosive coastal air or intense industrial grime, LOBOX BAY is built to resist wear and withstand the elements.

At the core, you'll still find the Bay XP's proven LED and driver system, aluminium heat sink plate, coated in durable epoxy, ensures thermal efficiency while adding to the unit's greater corrosion resistance.

If you need a luminaire that takes a beating but never misses a beat, LOBOX BAY is the one.

## KEY FEATURES

### MODULAR

- The fitting can reach a max lumen package of 12,330 effective lumen.

### LENSES

- 3 different optics for multiple lens combinations.

### 3 SIZE OPTIONS

- LOBOX Bay 101
- LOBOX Bay 201
- LOBOX Bay 301

### OPTICS

- Impact rating IK08/5J

### TEMPERATURE

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

### MOUNTING OPTIONS

- Suspended, mounted directly on the ceiling or by using a bracket (Available as an add-on).



**Optional:**  
Bluetooth, Wifi,  
Dali 2 & Bi Level.  
Casambi App  
featured above.



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

# Specifications

## Spec'd for every situation.

Our LOBOX Bay 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



**Undercover**



**Recyclable**



**Lenses**



**Modular:**  
Expandable  
system



**L&B Rating:**  
L80 B10  
90 000 hrs

## LOBOX Bay 101 470 x 220mm

Raw Lumen:  
Effective Lumen:

5954 lm  
5033 lm

Wattage:  
Raw Efficacy:  
Effective Efficacy:

**31W**  
194 lm/w  
164 lm/w

Max Ta:  
L&B:  
Hrs:

**40°C**  
L80 B10  
90 000 hrs



## LOBOX Bay 201 470 x 345mm

Raw Lumen:  
Effective Lumen:

11,908 lm  
10,568 lm

Wattage:  
Raw Efficacy:  
Effective Efficacy:

**62W**  
194 lm/w  
172 lm/w

Max Ta:  
L&B:  
Hrs:

**40°C**  
L80 B10  
90 000 hrs



## LOBOX Bay 301 470 x 475mm

Raw Lumen:  
Effective Lumen:

13,893 lm  
12,330 lm

Wattage:  
Raw Efficacy:  
Effective Efficacy:

**72W**  
193 lm/w  
171 lm/w

Max Ta:  
L&B:  
Hrs:

**40°C**  
L80 B10  
90 000 hrs



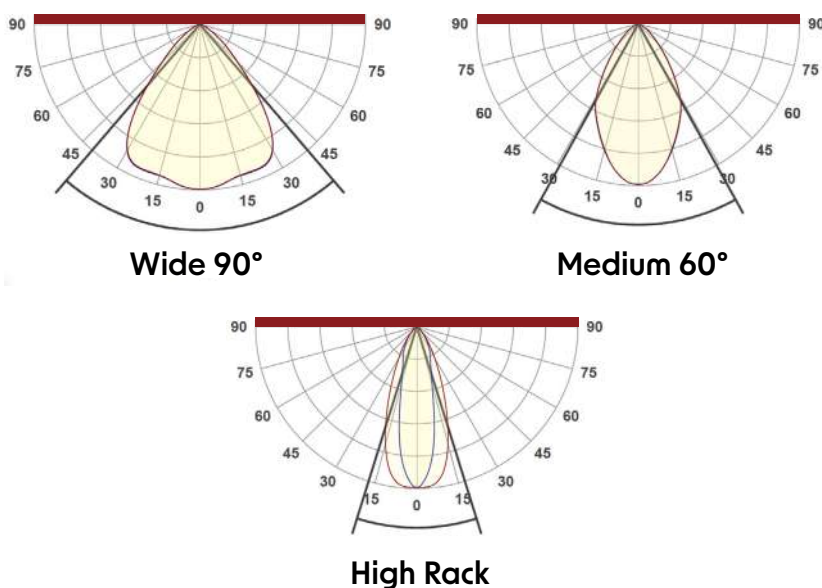


# Distribution Options

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 with near pin point accuracy without sacrificing efficiency.

In so doing we can provide solutions specific to your needs with our selection of lenses, meaning the only time you have dark spots is if you want them intentionally.



## A Closer Look

Engineered to the highest standards.

### 3CR12 enclosure

The LOBOX BAY features a durable 3CR12 stainless steel outer body, offering excellent corrosion resistance in coastal and industrial environments. Design to protect internal components, cuts down on maintenance, and extends lifespan in tough conditions.

### Lenses

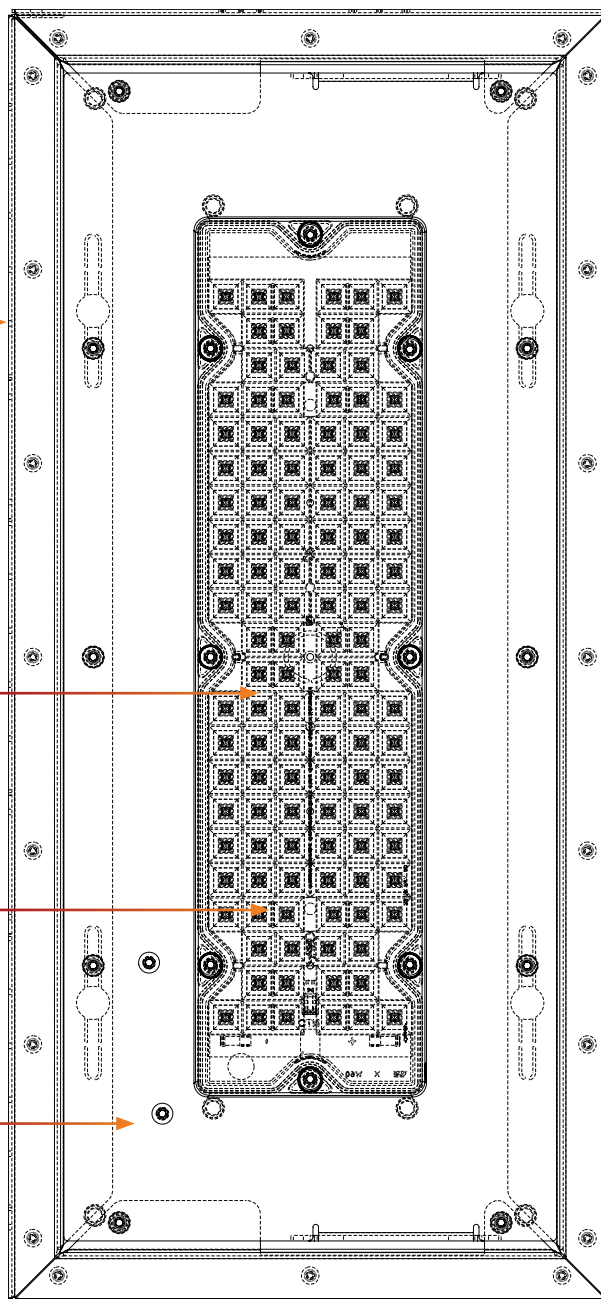
Polycarbonate lenses offer great IK08/5J impact protection and efficient distribution control. The continuous silicone gasket allows a water-resistant (IP65) assembly.

### LEDs

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

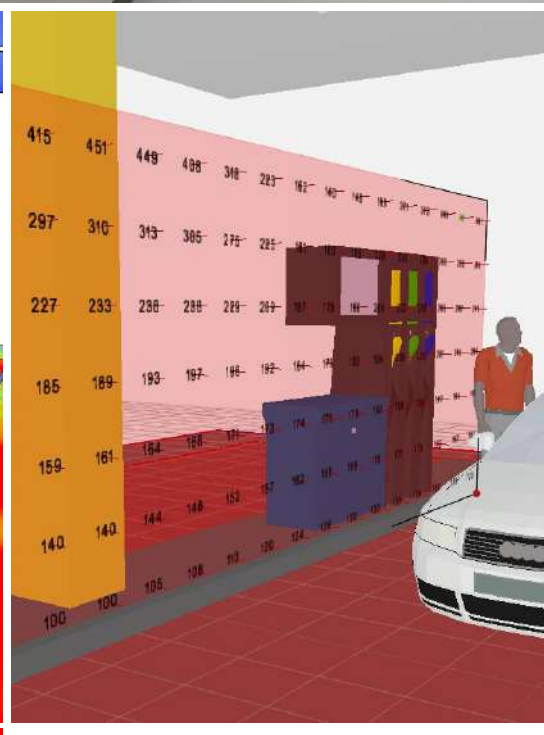
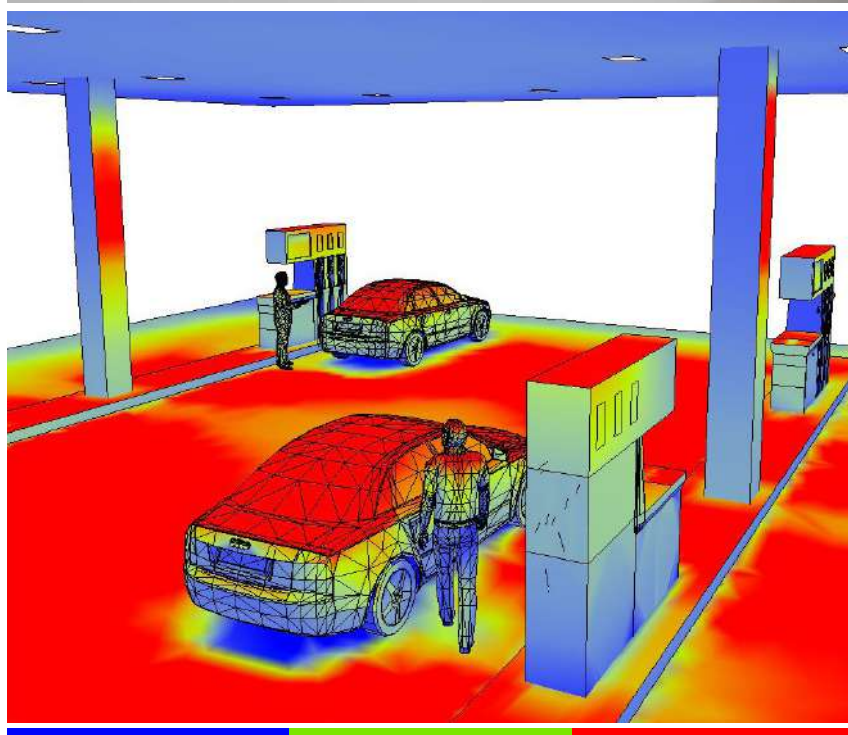
### Heat sink

Aluminium heat sink plate, coated in durable epoxy, ensures thermal efficiency while adding to the unit's corrosion resistance.



# Petrol Station Scene

Relux simulation of LoBox Bay lighting a petrol station canopy



0 200 400

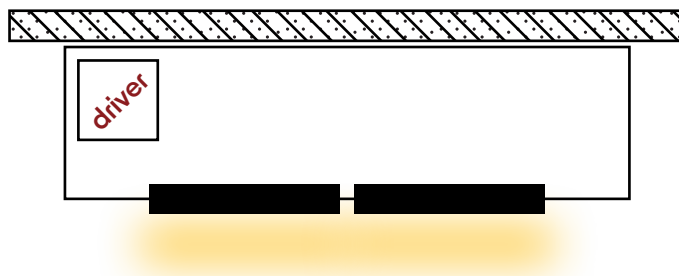
# Installation

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

The LOBOX Bay is easy to install under canopy with a few different mounting options. Please specify your preference when ordering.

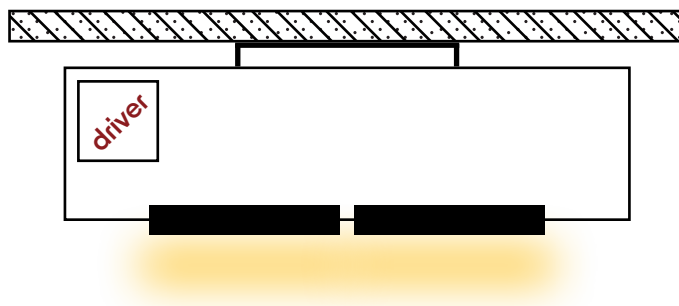
### Ceiling mount

A simple system to mount your new fittings directly to most ceiling.



### Mounting bracket

Available on request at an additional price.



#### 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 LOBOX Bay range.



Undercover



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.



Lenses.



Sustainably Recyclable.



L&B Life Rating: L80 B10, 90 000 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.



Motion Sensor.



VOLTpro



5 year warranty:

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

Designed and  
Manufactured by

**energywise**

Better Light  
Through Research.

[sales@energywise.co.za](mailto:sales@energywise.co.za) | [www.energywise.co.za](http://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





# Energywise lighting options

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

## INDUSTRIAL

						
<b>Bay XP</b> Factories, Warehouses, Cold rooms etc.	<b>Bay XL</b> Factories, Warehouses, Supply rooms etc.	<b>Bay XE</b> Factories, Warehouses, Supply rooms etc.	<b>DUSTPROOF</b> Warehouses, Car parks, Corridors.	<b>VANDAL-RESISTANT DUSTPROOF</b> Car parks, Corridors, Mills.	<b>PUREBox Panel</b> Medical & laboratory, Clean rooms etc.	<b>Torch Bulkhead</b> Heavy industrial areas.
<b>Standard</b> Height: 6-25m IP: 65 Temp: 40/65°C	<b>Standard</b> Height: 3-20m IP: 40 Temp: 30°C	<b>Standard</b> Height: 6-25m IP: 20 Temp: 30°C	<b>Standard</b> Height: 2.5-8m IP: 66 Temp: 35°C	<b>Standard</b> Height: 2.5-8m IP: 66 Temp: 35°C	<b>Standard</b> Height: 3-5m IP: 54 Temp: 35°C	<b>Standard</b> Height: 6-25m IP: 65 Temp: 30°C





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

## RETAIL & COMMERCIAL

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

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

## EARTH

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

Lights on. Job done.

**energywise**

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through research.