

energywise

Lighting Catalogue



Industrial



EX Range



Retail & Commercial



Horticulture



Retrofit

energywise

Better light
through research.

Our energywise lighting options:

Please use the Bookmark function to easily navigate the catalogue. Click on a fitting below, click on the page number on the next page and find a "back to contents page" at the bottom of each brochure cover page.

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

Lights on

INDUSTRIAL

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

RETROFIT

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 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 4-100 IP65
Bakeries, Industrial kitchens etc

Standard
Height: 2.5-10m
IP: 65
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 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

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.

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Contact us
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Our Photo-metric Laboratory



Our photo-metric laboratory is equipped with thermal testing stations, state-of-the-art photo-goniometers, spectrometers and more. When coupled with our lighting engineers' knowledge and a decade of LED-specific experience across industrial, commercial, horticultural and EX applications, this backbone to our company means no Energywise luminaires even approach the production stage without complete quantifiable certainty in their performance and output. **We extend access to this service to our customers who wish to gain a better understanding of their imported or locally manufactured fittings.**

Contact us for more information.



LEDrail 5000 series

The future of linear lighting.

Introducing the LEDrail 5000 series - the ultimate LED retail lighting solution, born from a decade of innovation and leadership. With a seamless design that fits together like child's play, this series offers unmatched ease and flexibility.

Boasting a modern, sleek body design, our light fitting exudes a seamless, polished surface.

This latest generation LEDrail feature remarkably faster installation.

With perfected modularity, our LEDrail offers unprecedented flexibility and adaptability to any environment.

Elevate your space with our visually striking linear light fitting, featuring unparalleled aesthetic refinement.

Launching in early 2023, contact us to learn more about this groundbreaking new product.

Our new selector plug with 7 circuits, see page 10

VS lenses 30°, 60°, 90°, 110°, RS, AS, UGR

Dark Light

Dark light is a discreet type of lighting with an almost imperceptible light source

This lighting fixture has a specialized lens that eliminates glare and ensures uniform light distribution for a great visual experience. The lens is designed to be glare-free, reducing eye strain and discomfort. It provides both stunning aesthetics and stellar performance for your space.



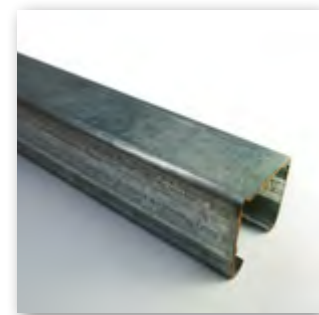
Our efficient low UGR (Unified Glare Rating) lens uses advanced optics with 65° and 90° light emission angles, paired with a grid for an exceptional low-glare light. It maintains high color constancy (CLC) and even illumination in low ceiling spaces, making it ideal for recessed, surface-mounted, and suspended luminaries in offices, stores, and architectural applications.



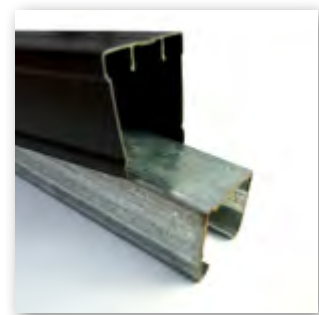
CHANNEL DRESSING



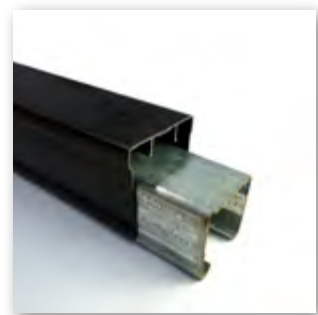
Introducing **Channel Dressing**, a revolutionary product designed to enhance your P2000 channel trunking. **Our solution eliminates the need for repainting** and provides a quick upgrade to your channel's aesthetic. Channel Dressing also increases the channel's capacity, providing three additional channels for running cables. Specifically designed with our new XFIT & Highlight light fittings (pages 12 & 13) in mind, Channel Dressing is the perfect addition to elevate your space.



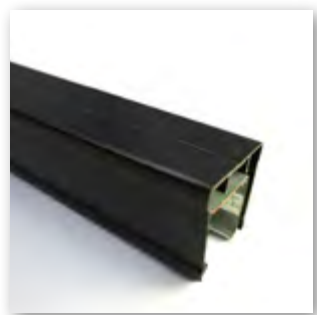
Use Channel Dressing to cover old P2000.



Open the dressing and place over the P2000.



The dressing allows space for cables.



Adjust the dressing to the ideal placement.

Black or white casing fits snugly over the P2000. This cover is a cost effective solution to older trunking without the need to repaint.



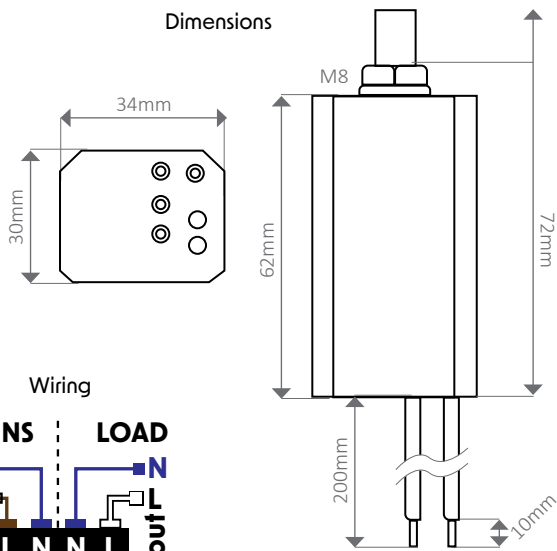
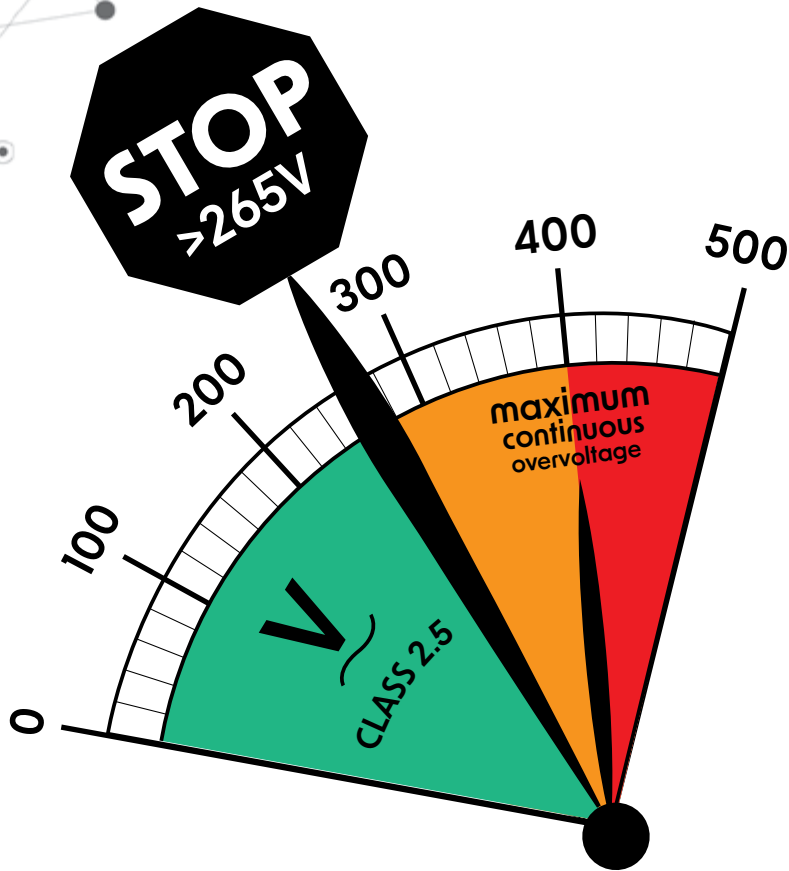
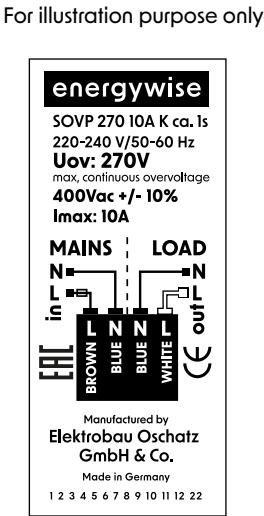
The casing provides 3 channels for any additional cables

The VOLTPRO

Surge & Overvoltage Protection

SPECIFICATIONS	
Nominal voltage	220 240 Vac (not suitable for DC-voltage supplies)
Power dissipation at nominal voltage	125mW
Max. continuous overvoltage	400 Vac +/- 10%
Nominal frequency	50/60Hz
Maximum load current (Im)	10A
In rush current withstand	100A (Lin- Lout)
Disconnecting voltage	270 Vac +/- 3%
Response time	90ms < t < 2s
Surge withstand voltage	10.000V
Reset	Disconnect from the mains voltage. After reconnecting the device will re-connect the load to the supply voltage in case supply voltage is within the limits within 7 seconds
Protection rate	IP20
Storage temperature	-40°C ... 80°C
Operating temperature	-40°C. ... 60°C
Tc max.	70°C
Lead wires Lin, Lout, 2x N	Lin (BN), Lout (WT), 2x N (BU), 1,5mm² stranded-200mm
Indicator	Green LED ON: AC power supply OK Ret LED ON : Overvoltage > 270V ac +/-3%
External Fuse	16A
Dimensions (axbxh)	62 x 34 x 27 mm
Fixiation	M8x10

Surge and Power supply overvoltage protection device.
Protection against surge and power frequency overvoltages (TOV).
In the event of a continuous overvoltage a internal power relay will disconnect the load from the supply voltage until the device is reset.



energywise

Better Light
Through Research.

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Riverhorse Valley, Durban, South Africa, 4017
Postal address: PO Box 1166, Kloof, South Africa, 3640



Multi Circuit Solutions

We offer a wide range of through power solutions, ranging from the standard 3-wire option to an impressive 7-wire solution, providing you with a comprehensive selection to meet your needs. Our linear LEDrail lighting system is the result of extensive research and development, designed to provide a simple and effective solution for interlinking up to 25 meters of lighting.



This lighting system boasts almost 10 years of development and a reliable 3-wire connection. The LEDrail 4000 & 5000 can be upgraded to a 5-wire or 7-wire solution, providing greater flexibility and functionality, including the impressive ability to feed from a generator and/or inverter.

Introducing our energywise Selector Plug

After extensive research and development, we are proud to present a sophisticated 7-pole pickup selector solution, Designed by energywise, manufactured in Europe.

This innovative design offers enhanced wiring capabilities, particularly in the South African market, to meet the evolving needs of our customers. The seven poles not only provide separate pathways for electrical power, but also facilitate connections to a generator, inverter etc for optimal versatility.



Our system boasts a compact and robust design, featuring two sides each equipped with 7 sturdy conductors, including an earth wire. This innovative solution is specifically engineered to seamlessly integrate into our streamlined light fixtures, offering the perfect balance of strength and versatility in a small form factor. This unit offers a user-friendly solution for selecting between three distinct electrical power sources. The centre selector can be easily rotated to switch between these options, providing maximum flexibility and ease of use. This intuitive design ensures that you have access to the most appropriate power source for your specific needs, with a minimum of hassle.



This unit is designed for safe and efficient power selection, with a center selector for as an example; mains, generator, and or inverter sources. To ensure safety, the unit is sealed once closed. To change power sources, although the unit has been designed to be safely operated when live, disconnect the power to the fittings before rotating the selector, safety first. See page 10 for more details

An Energywise and VS-Group Europe joint collaboration,
Designed by Energywise, manufactured in Europe.



The energywise[®] Selector Plug with 7 circuits

Effortlessly select from 3 separate Bipolar lines

The 7-pole connector with pickup-selector simplifies the selection process between the 3 separate circuits whilst its compact design allows for seamless integration into the housing of our fitting.

Type: **CONNECTOR FEMALE SOCKET + MALE PLUG**
3 + 3 + E SELECTABLE POLES, WITH 1 + 1 POLE TAP OFF SELECTOR

Rated voltage:	400V
Rated current:	25 A (2A for 2 pole tap off power to the Driver)
Working temperature:	T 85°C
Terminals	SCREW CLAMPS
Terminals connecting capacity:	0,75 ÷ 2,50mm ²
Protection degree (IP):	IP20
In conformity to the standards:	EN 61984
In conformity to the requirements of the directive:	2014/35/EU

- The 3+3+E pole female-socket and male-plug connector features a 1+1 rotating pole pickup selector for easy selection.

- The bush screw clamps are made of nickel-plated brass and the hexagon head screws are engraved and made of zinc-plated iron.

- This device is suitable for interconnecting lighting fixtures, enabling the driver to be fed from any of three possible circuits, with separate Live and Neutral connections.

- The rotary line selector gives the installer the option to choose one of three available lines through the rotation device.

- Selection can only be made when the plugs are disconnected, ensuring safety and eliminating residual or floating currents.

- The pickup rotor selector can be pre-set and locked during production or set by the installer on-site.

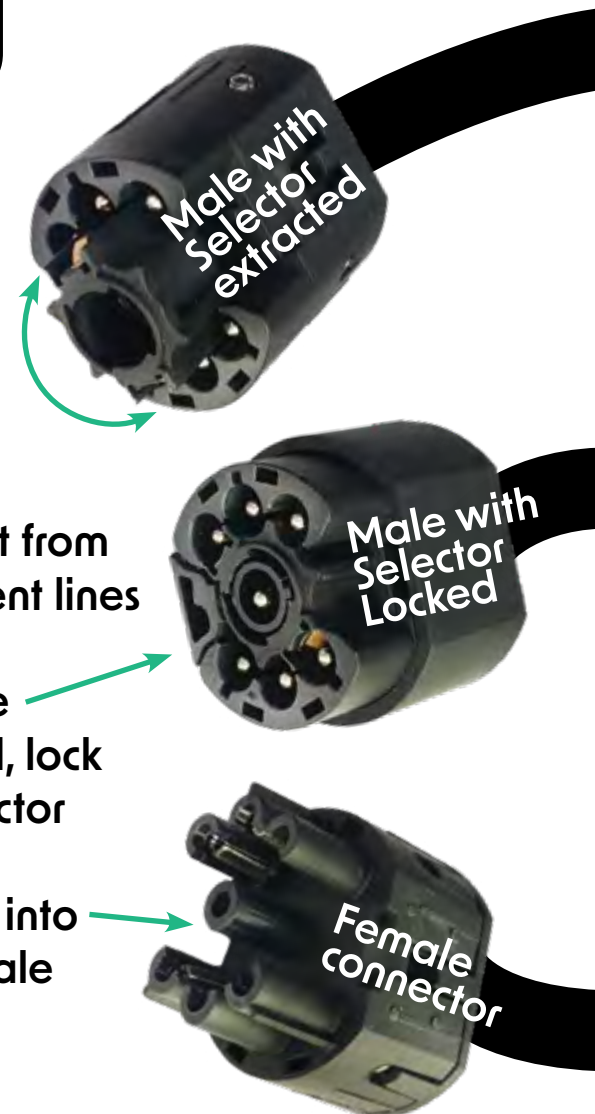
- When the male-plug is connected to the female-socket, the rotor becomes inaccessible.

NOTE: the maximum current of the Tap off line coming out from the rotor selector must not exceed 2A.

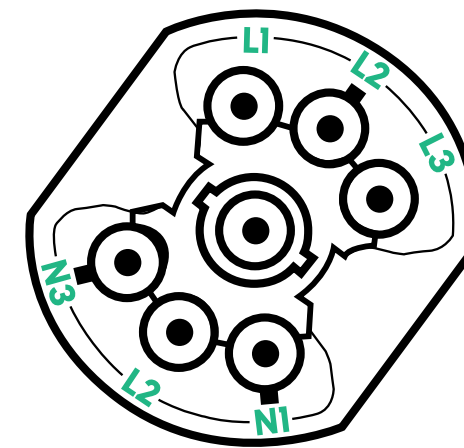
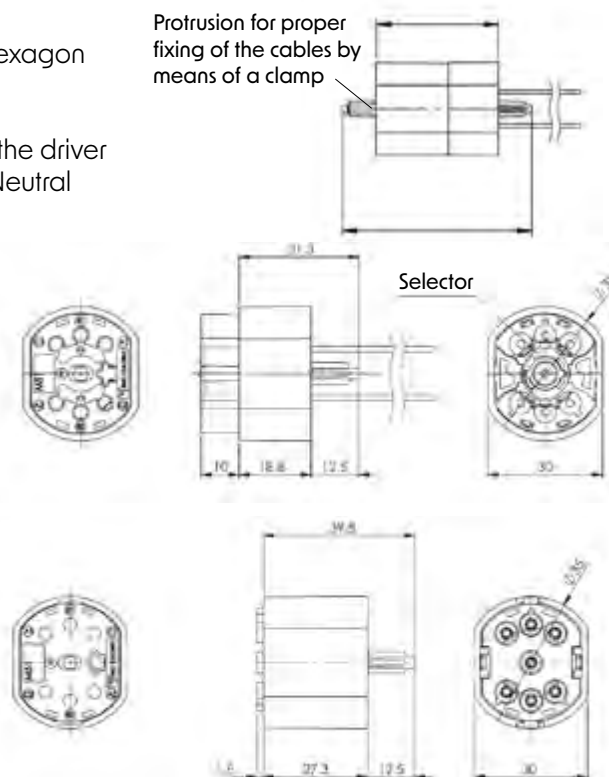
1. Select from 3 different lines

2. Once selected, lock the selector

3. Plug into the female side



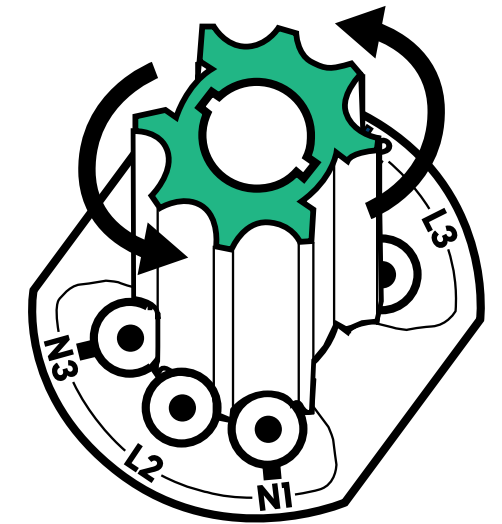
Protrusion for proper fixing of the cables by means of a clamp



L1/N1 = Mains
 L2/N2 = Generator
 L3/N3 = UPS/Inverter

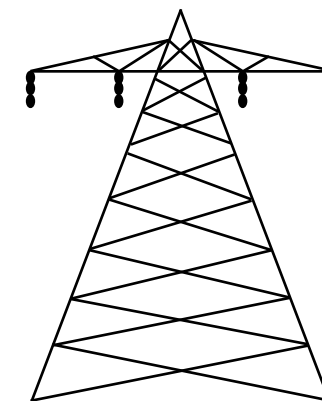
Proposed example, multiple options available

Use long nose pliers to lift the pole-pickup-selector. Then rotate to the desired line.

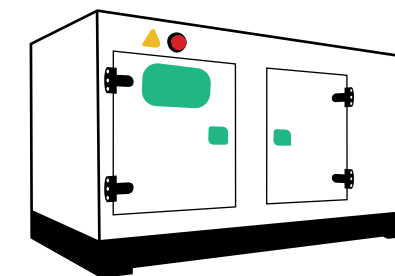


How our 7 Pole-Pickup-Selector could work

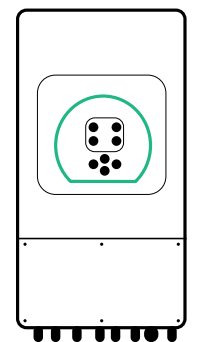
The Selector plug will enable you to connect 3 separate circuits and to easily re-allocate any of the connected fittings to any of the 3 feeds, with ease, without tools and in complete safety.



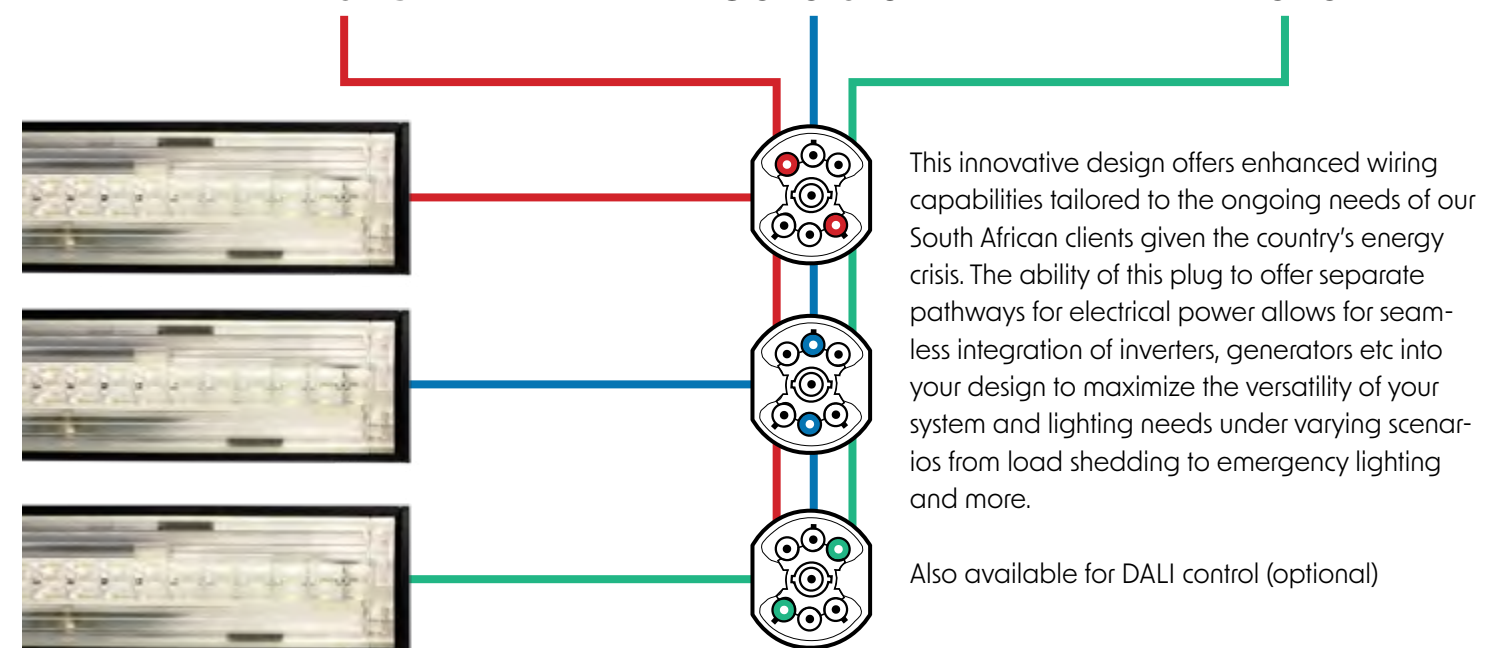
Mains



Generator



Inverter



This innovative design offers enhanced wiring capabilities tailored to the ongoing needs of our South African clients given the country's energy crisis. The ability of this plug to offer separate pathways for electrical power allows for seamless integration of inverters, generators etc into your design to maximize the versatility of your system and lighting needs under varying scenarios from load shedding to emergency lighting and more.

Also available for DALI control (optional)

X-Fit

Cross functional magnetic solution.

Our X-fit linear retail solution offers a magnetic attachment for seamless integration with P2000 trunking, reducing installation time on site. The product leverages our established ledrail technology and boasts 8 lens options, premium European components, and is designed and developed by our South African R&D team, with a focus on African resilience. Made to work seamlessly with Channel dressing.



5 year warranty:
7 year warranty
available T&Cs apply.

Retail

IP
40

The Highlight

Flood or focus, you decide.

Our Highlight light fitting switches between focusing and flooding light, using optimal optics for the task. It rotates or pivots like a traditional spot but can be locked in place to prevent glare. The Highlight doesn't need expensive tracks, reducing overheads. It can stand alone or work with Xfit and Channel Dressing for a complete lighting upgrade. We're committed to providing high-quality lighting solutions that enhance your space.



5 year warranty:
7 year warranty
available T&Cs apply.

P2000 Not supplied



COMING SOON



Proudly manufactured in
South Africa using
European LED Technology



kV Protection:
1kV-2kV,
4kV or 10kV on
request



Indoor



5/7 Year
Warranty
T&Cs apply

energywise

Better light
through research.



Proudly manufactured in
South Africa using
European LED Technology



kV Protection:
1kV-2kV,
4kV or 10kV on
request



Mount:
P2000
Compatible



5/7 Year
Warranty
T&Cs apply

energywise

Better light
through research.

Retail

IP
20



Industrial



Bay XP

16

High Output. High IP. High Bay.

Our flagship high output LED High Bay is able to take on almost any environment thanks to its standard IP65 rating and ability (on request) to tackle temperatures of up to 65°C ambient. The Bay XP has a built-in 4kV surge protection and is fully serviceable. (upgradeable with a replaceable 10kV surge protection module and or a VOLTpro).



Our Highbay flagship.

A Highbay of the Highest Standards.

This heavyweight highbay is designed to tackle the toughest industrial conditions with ease. Packing a serious lumen punch and 4 different optics at its disposal the BAY XP is able to offer precision lighting from heights that would give other highbays vertigo.

Manufactured with a solid aluminum heat sink for superior heat dissipation, impact-rated lenses and water and dust ingress protection, this luminaire was built for environments that have 'challenging as their middle name. And thanks to some refined engineering, this workhorse can be fine-tuned on request to go where other luminaires fear to tread and tackle ambient temperatures of up to 65°C (on request).

From sweltering factories to industrial cold rooms & everything between the XP is the benchmark in highbay lighting. It comes in a range of sizes to best suit your output requirements and offers our highest lumen packages on offer. This versatile powerhouse is the highbay you never knew you always wanted....and more.

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 for countless optic combinations

4 SIZE OPTIONS

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

OPTICS

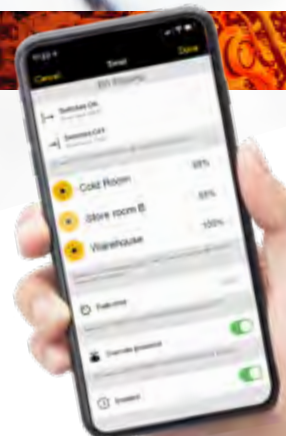
- Impact rating IK08/5J

TEMPERATURE

- Ambient room temperature -25°C to +40°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.



**5 Year
Warranty**
*T&Cs apply



**Fully
Serviceable**



kV Protection:
4kV surge
protection



Indoor



Lenses



Diffuser:
IK08/5J



Modular:
Expandable
system



Optional:
Bluetooth, Wifi,
Dali & Bi Level

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



**Sustainably
Recyclable**



Lenses



Modular:
Expandable
system

700 mm

Bay XP 102

Effective Lumen up to:

8258 lm

12494 lm

18170 lm

240V:
Effective Efficacy:

59W
139 lm/w

92W
131 lm/w

144W
125 lm/w

Max ambient:
L&B:

65°C
L80 B10
F3 75K hrs

50°C
L80 B10
F3 75K hrs

40°C
L80 B10
F3 75K hrs



1000 mm

Bay XP 103

Effective Lumen up to:

12387 lm

18741 lm

27255 lm

240V:
Effective Efficacy:

89W
139 lm/w

138W
136 lm/w

215W
127 lm/w

Max ambient:
L&B:

65°C
L80 B10
F3 75K hrs

50°C
L80 B10
F3 75K hrs

40°C
L80 B10
F3 75K hrs



1350 mm

Bay XP 104

Effective Lumen up to:

16516 lm

24988 lm

36340 lm

240V:
Effective Efficacy:

118W
139 lm/w

184W
136 lm/w

287W
127 lm/w

Max ambient:
L&B:

65°C
L80 B10
F3 75K hrs

50°C
L80 B10
F3 75K hrs

40°C
L80 B10
F3 75K hrs



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.



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

BayXP 202



1 x 102 18 170 lm

1 x 103 27 255 lm

1 x 104 36 340 lm



2 x 102 36 340 lm

2 x 103 54 510 lm

2 x 104 72 680 lm



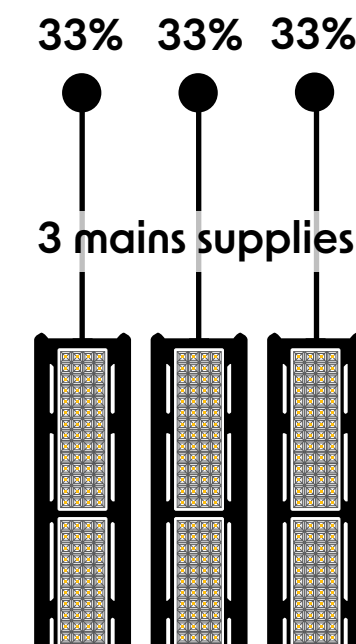
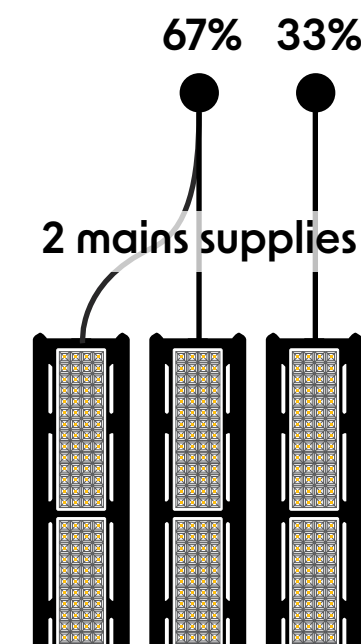
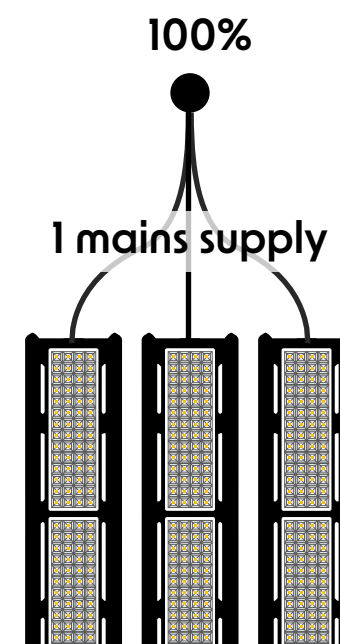
3 x 102 54 510 lm

3 x 103 81 765 lm

3 x 104 109 020 lm

Suggested wiring options.

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



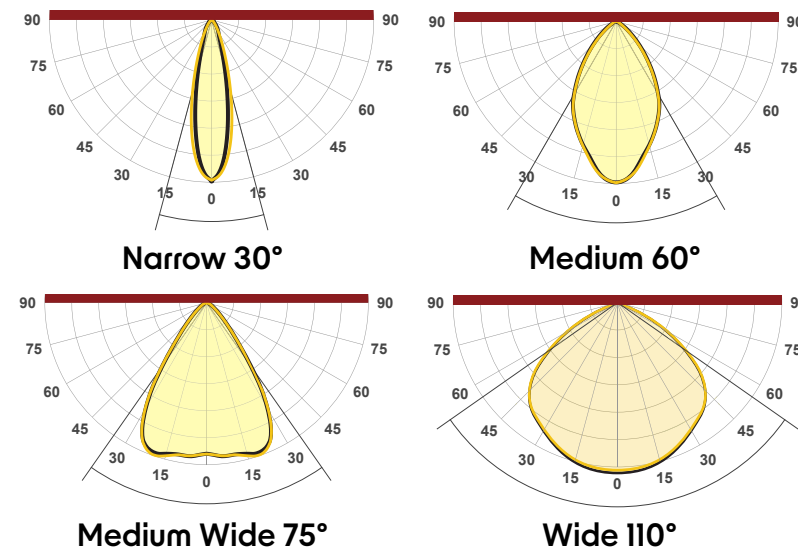
Distribution Options

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.



A Closer Look

Engineered to the highest standards.

Heat-sink

Aluminum heat-sink engineered to keep the LEDs comfortable up to an ambient of 40°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 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.

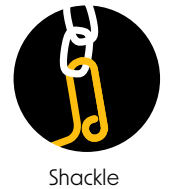
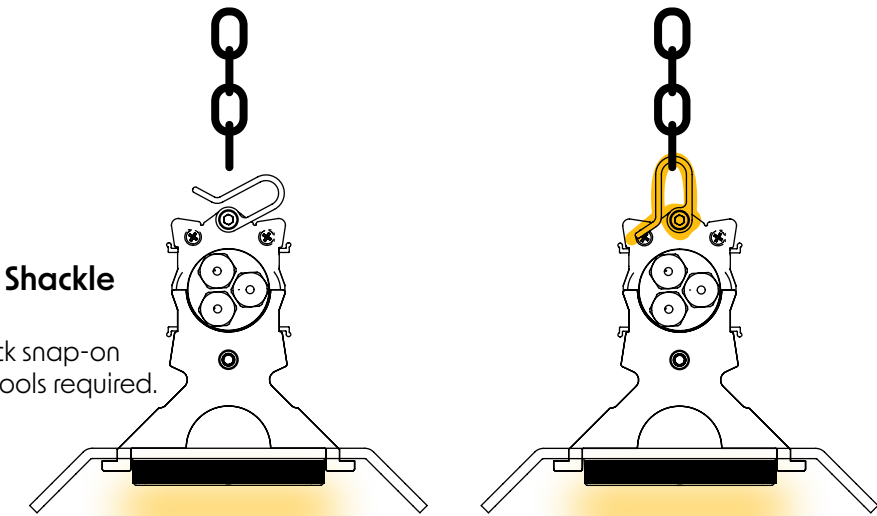
Installation

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

The Bay XP 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.

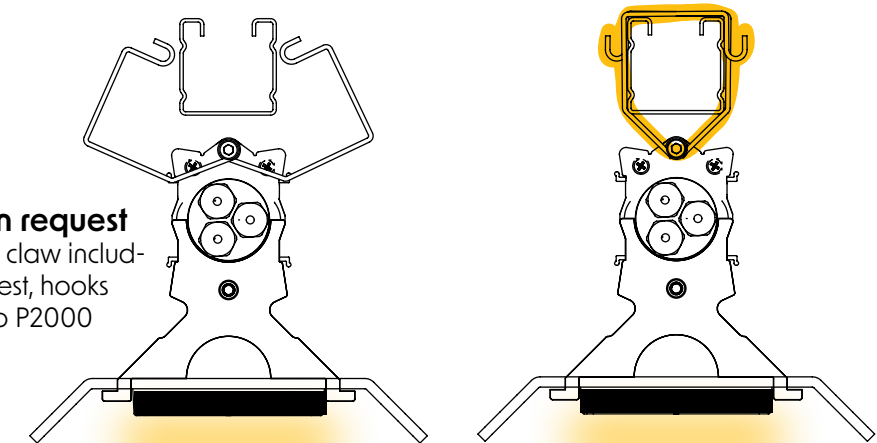
Suspension - Mini Shackle (Standard)

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



Claw - On request

Spring steel 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 Ta 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 XP range.



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 MacAdam Ellipses



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.



Sustainably Recyclable.

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

BayXP Pailpac Warehouse



BayXP Coca-Cola Distribution



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 and or a VOLTpro).



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.



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

**IP
40**

Indoor



**Sustainably
Recyclable**



Lenses



Modular:
Expandable
system

Bay XL 102

Effective Lumen:	5820 lm	7490 lm
240V:	47W	57W
Effective Efficacy:	124 lm/w	133 lm/w
Max ambient:	40°C	30°C
L&B:	L80 B10 50K hrs	L80 B10 50K hrs
650 mm		

Bay XL 103

Effective Lumen:	8738 lm	11234 lm
240V:	71W	85W
Effective Efficacy:	124 lm/w	133 lm/w
Max ambient:	40°C	30°C
L&B:	L80 B10 50K hrs	L80 B10 50K hrs
870 mm		

Bay XL 104

Effective Lumen:	11650 lm	14979 lm
240V:	94W	113W
Effective Efficacy:	124 lm/w	133 lm/w
Max ambient:	40°C	30°C
L&B:	L80 B10 50K hrs	L80 B10 50K hrs
1200 mm		

Bay XL 105

Effective Lumen:	14563 lm	18724 lm
240V:	118W	141W
Effective Efficacy:	124 lm/w	133 lm/w
Max ambient:	40°C	30°C
L&B:	L80 B10 50K hrs	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 7 490 lm

1 x 103 11 234 lm

1 x 104 14 979 lm

1 x 105 18 724 lm

2 x 102 14 979 lm

2 x 103 22 468 lm

2 x 104 29 956 lm

2 x 105 37 448 lm

3 x 102 22 470 lm

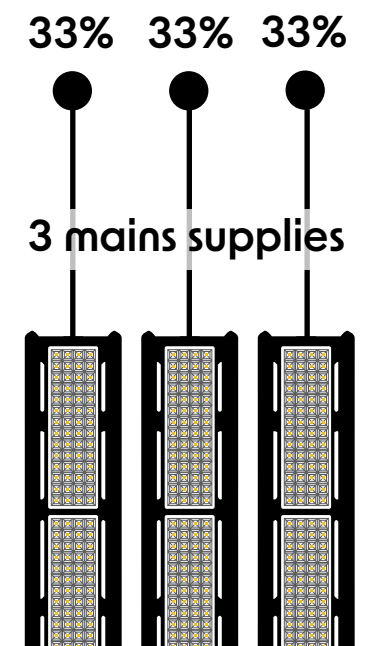
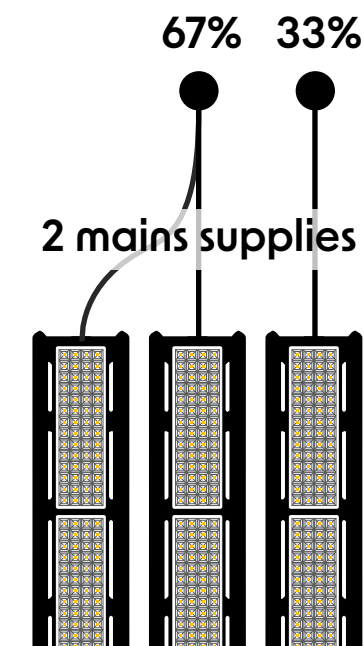
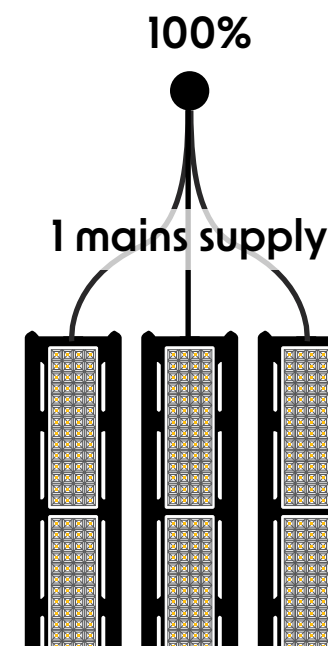
3 x 103 33 702 lm

3 x 104 44 937 lm

3 x 105 56 172 lm

Suggested wiring options.

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

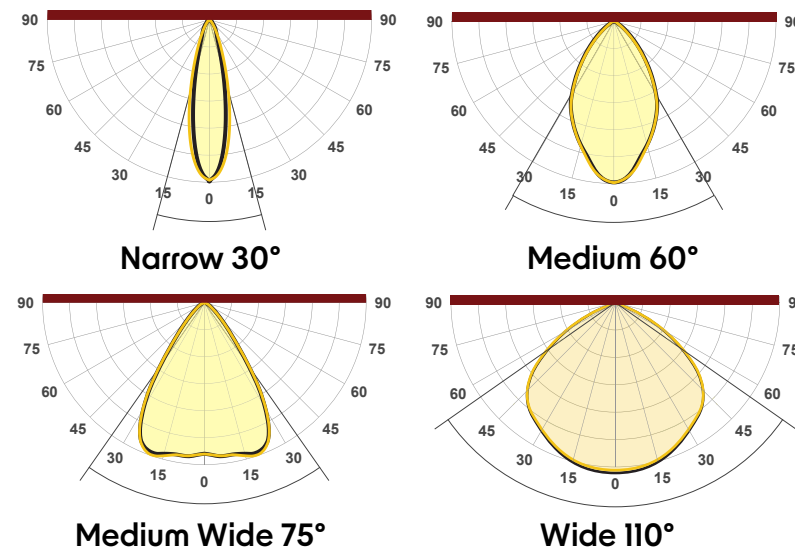


Distribution Options

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

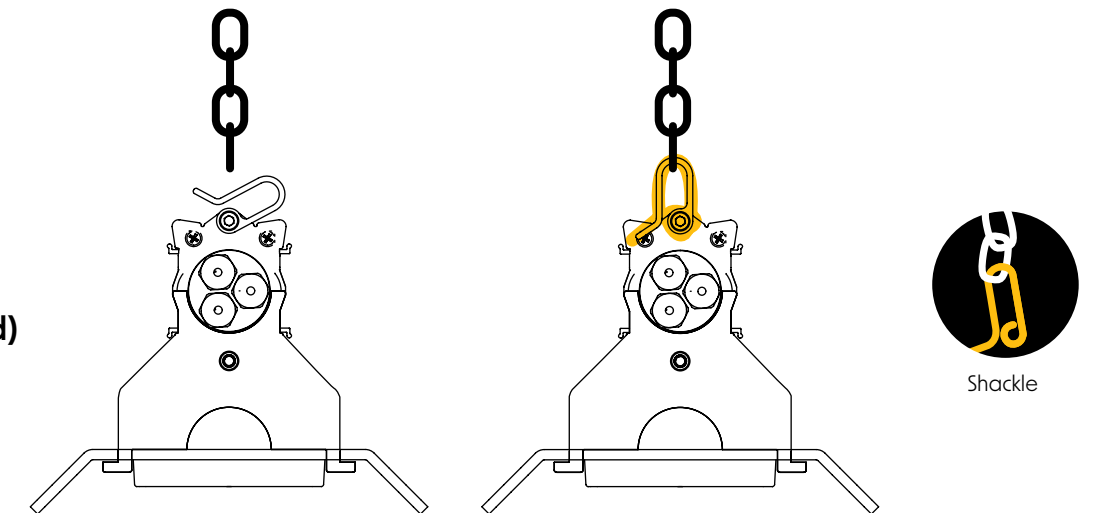
Source from the best component manufactures in Europe to ensure maximum lifespan, quality and light spectrums.

Installation

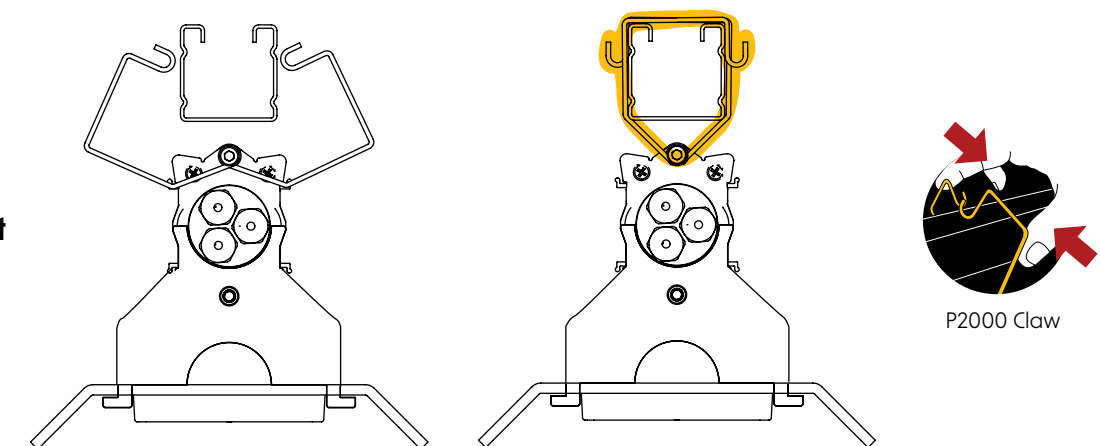
Easy to install, **Saving** you time & money

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 Ta 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 MacAdam Ellipses.
-  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.
-  Sustainably Recyclable.

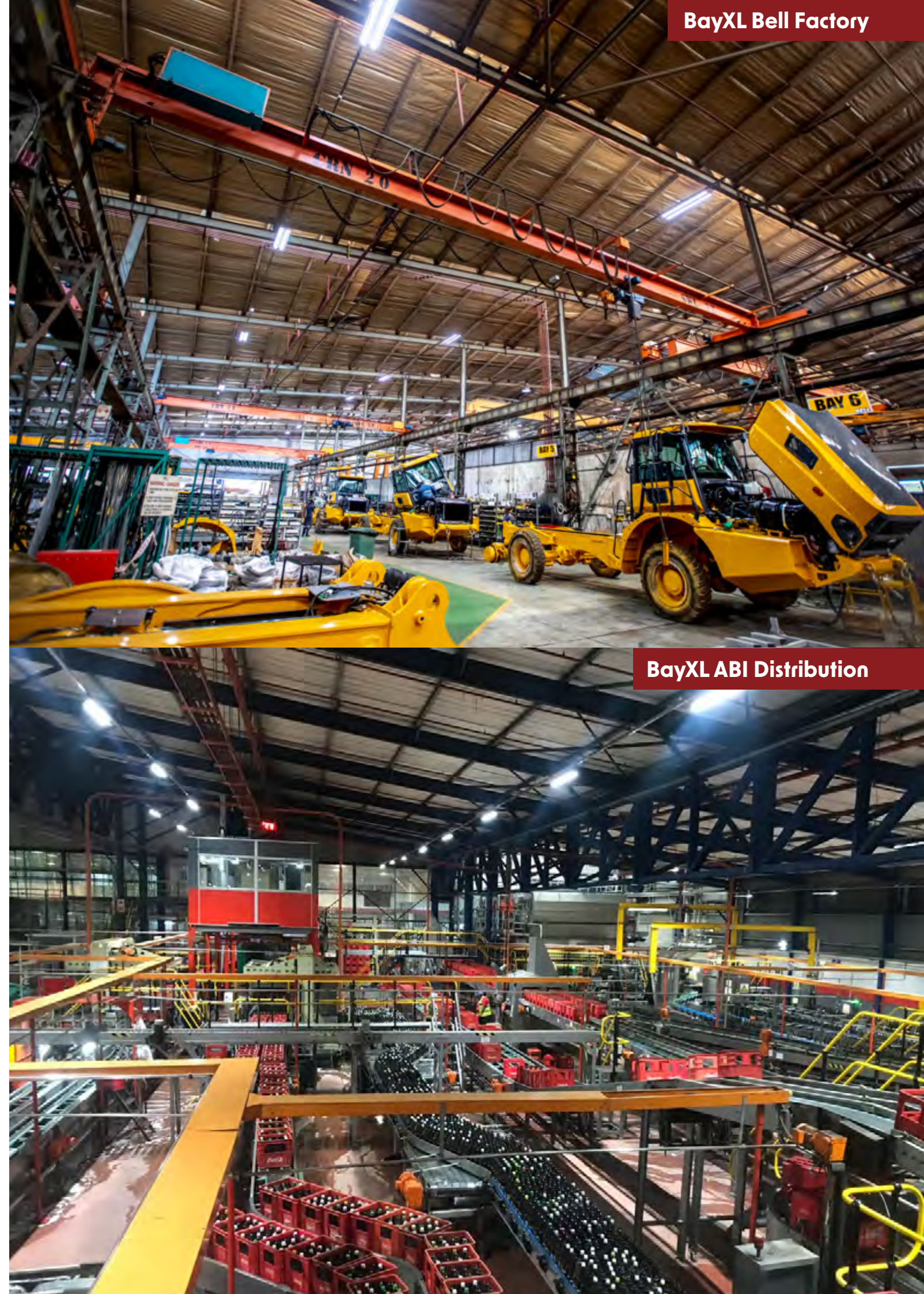
Extras

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.
-  VOLTpro.
-  Different colour options.



5 year warranty:
Please visit
www.energywise.co.za



BayXL ABI Distribution

Bay XE

No frills, all punch, no compromises.

5 YEAR WARRANTY

A high powered and high quality highbay in an economical packaging, the Bay XE packs much of the punch of its more luxurious Bay XP sibling without the frills. A true no nonsense workhorse this the BAY XE was designed to light where you need it without fuss.



Industrial

IP 20

Professional lighting for all.

After the success of our Bay XP we realised there was a gap in the market for a more cost effective solution that did the basics perfectly without the frills.

Manufactured from the same battle tested materials as its big brother and with its superior heat dissipation and high lumen output the Bay XE is suitable for many applications ranging from storage rooms, workshops, light industrial, commercial and garages etc

From sweltering factories to industrial cold rooms the heavyweight XP is the benchmark in high bay lighting. For hardworking factories and busy warehouses the XL delivers perfectly. For everything else the Bay XE shines bright and comes in at a price that's right.

KEY FEATURES

LENSES

- 4 different optics

1 SIZE OPTION

- Bay XE 102

OPTICS

- Impact rating IK08/5J

MOUNTING OPTIONS

- P2000 mount
- Ceiling mount
- Suspended / Pendant



5 Year
Warranty
*T&Cs apply



kV Protection:
4kV surge
protection



Indoor



Lenses



Sustainably
Recyclable



Fully
Serviceable

Specifications

Spec'd for **every** situation.

Our Bay XE is available in the specifications below.



kV Protection:
4kV surge
protection



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



Indoor



**Sustainably
Recyclable**



Lenses

Bay XE 102

Effective Lumen:

18822 lm

240V:

Effective Efficacy:

144W
131 lm/w

Max ambient:
L&B

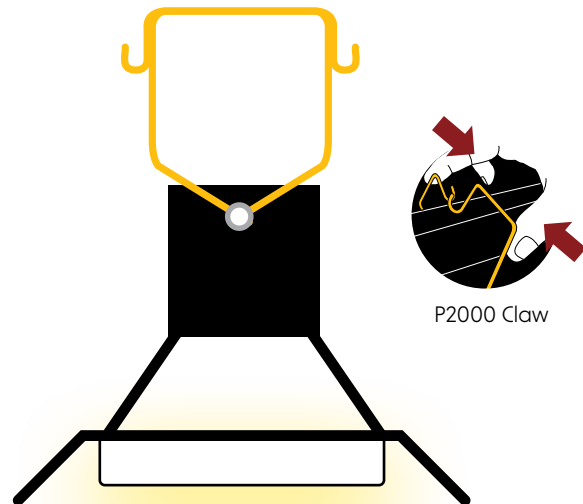
30°C
L80 B10 50K hrs

600 mm

Installation

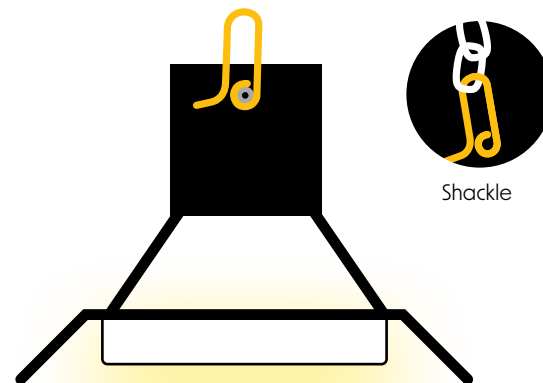
Easy to install, **saving** you time & money

The Bay XE has two simple methods of installations as pictured below.



P2000 Claw

P2000 Claw Mount
For quick and simple attachment of
the Bay XE to P2000 trunking. **On
request**



Shackle

Suspended Shackle Mount
For hanging the fitting at your desired
height. **On request**

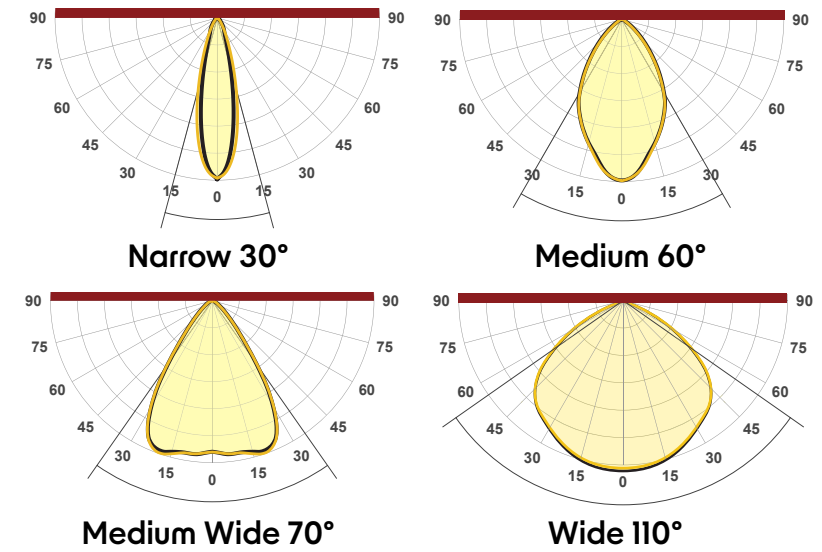
Distribution Options

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.



A Closer Look

Engineered to the
highest standards.

Heat-sink

Aluminum heat-sink engineered to keep the LEDs comfortable up to an ambient of 30°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.

Finishings

All fasteners are Stainless Steel 306 rust free longevity.

Features

Standard across the Bay XE range.

-  IP 20 Indoor.
-  Sustainably Recyclable.
-  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 MacAdam Ellipses.
-  Earth connection and CLASS I insulation fixture.
-  Optic impact rating IK08/5J.
-  Voltage surge protection 4Kv.
-  All screws & mini shackles in stainless steel 306.





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:

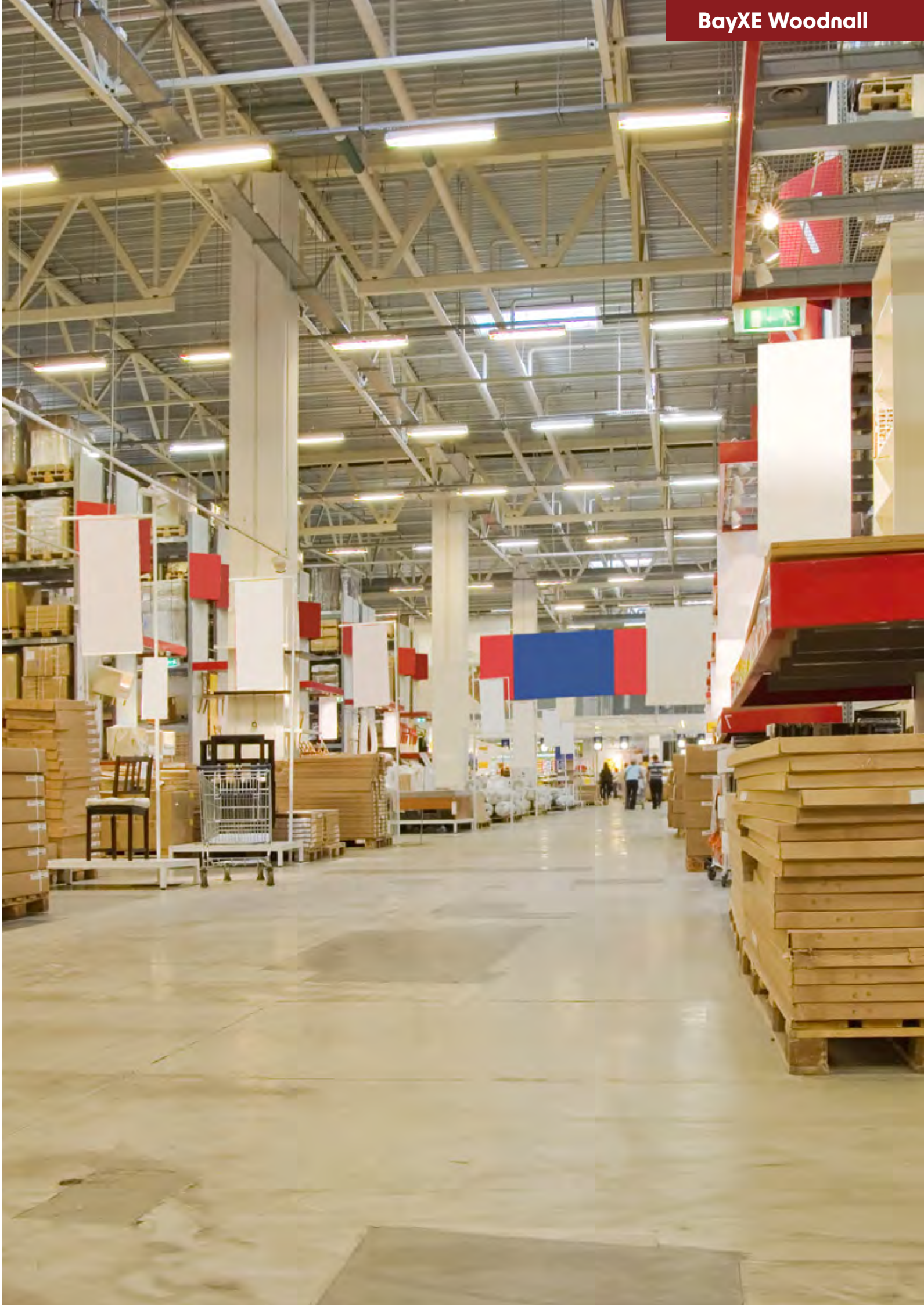
- technology upgrades to improve energy efficiency and performance, increased safety and cost effectiveness
- to comply or conform to suppliers updates or according to new safety standards. The true nature of any upgrade is always to provide a better product, therefore, there will be no recourse for 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 Ta 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.

 **5 year warranty:**
Please visit www.energywise.co.za

Optional

-  Suspended by chain or steel cable. (not included)
-  P2000 Trunking mount.
-  VOLTpro.
-  Different colour options.



Dustproof

Water, vapour & dust proof.

5 YEAR WARRANTY*

Our IP66 LED dustproof is composed of a UV stabilized polycarbonate body which gives excellent protection from long-term degradation from sunlight as well as an IK08/5J optic impact rating. This stout luminaire is fully serviceable and comes with a standard ambient temperature rating of up to 35 degrees Celsius. (Higher on request)



Jack of no shade.

Our SABS approved dustproof luminaire has a premium body imported from Spain, components from Germany & Italy and are assembled, designed and produced in South Africa. The result, a dustproof light fitting leagues above the competition and perfectly suited to a host of environments.

For fast installation and low maintenance you really can't do better, and we haven't even mentioned the exceptionable human centric light quality. Talk about the full package, this is a beautiful piece of tech made to look simple and perform to the highest standard.

Dustproofs are found in every other building and have been popular for years. We have carried on with that same durable form factor and gave it a serious upgrade. LED technology has come so far and now properly outstrips old Fluorescents with longevity, efficiency, light quality and perhaps most importantly, electrical costs.

KEY FEATURES

3 SIZE OPTIONS

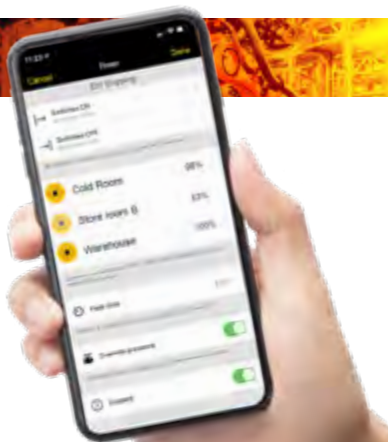
- Dustproof 2 Foot 600mm
- Dustproof 4 Foot 1200mm
- Dustproof 5 Foot 1500mm

DIFFUSER

- Impact rating IK08/5J

TEMPERATURE

- Ambient room temperature standard -5°C to +35°C.



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



5 Year
Warranty
*T&Cs apply



kV Protection:
1kV-2kV,
4kV or 10kV on
request



Indoor



Diffuser:
IK08/5J



Sustainably
Recyclable



Fully
Serviceable

Specifications

Spec'ed for **every** situation.



kV Protection:
1kV-2kV, 4kV or
10kV on request



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



Indoor/Outdoor



Impact Resistance:
IK08/5J



Diffuser:
Polycarbonate

Dustproof

2 Foot

4 Foot

5 Foot

Raw Lumen:
Effective Lumen:

2913 lm 3964 lm
2700 lm 3675 lm

5480 lm 7660 lm
5080 lm 6870 lm

6800 lm 9095 lm
6304 lm 8431 lm

240V:

20W 29W

38W 54W

46W 66W

Raw Efficacy:
Effective Efficacy:

142 lm/w 139 lm/w
134 lm/w 128 lm/w

144 lm/w 142 lm/w
134 lm/w 127 lm/w

148 lm/w 138 lm/w
136 lm/w 130 lm/w

L90 B10 @ 25°:
L80 B10 @ 35°:

>54000Hrs
>50000 Hrs

>54000Hrs
>50000 Hrs

>54000Hrs
>50000 Hrs

Fitting Length:

620mm

1250mm

1540mm

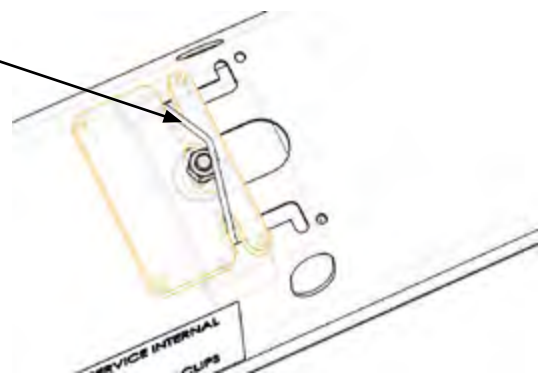
Installation

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

The Dustproof can either be installed as pendant or surface mounted.

Suspension Mounting

Spring Quick snap-on
triangular attachment, no
tools required.



Surface - Simple,
quick surface installation
(installation instructions
provided in box)

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- 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.

Distribution Options

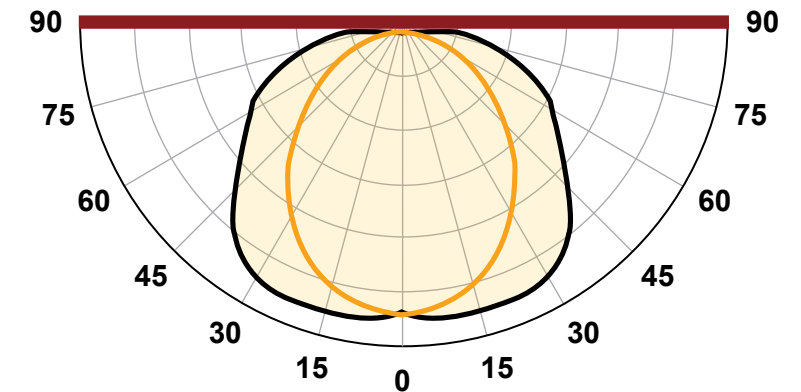
The light you need, where you want it.

LED Dustproofs protect your LEDs,

and offer light onto a specific area, surface, or object. Floodlighting is a basic element of both interior and exterior lighting. These outdoor/indoor luminaires are not meant to only project a wide spread of light.

Dustproofs are ideal for lighting up passages, walkways and car parks, with a soft feel but effective lighting solution. This premium dustproof body and components are sourced from leading manufacturers in Europe.

Dustproof Distribution



A Closer Look

Engineered to the highest standards.

Diffuser

Polycarbonate diffuser offers great IK08 impact protection and efficient distribution of light. The continuous silicone gasket allows a water-resistant (IP66) assembly.

LEDs

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

Finishings

All fasteners are Stainless Steel for longevity.



Features

Standard across the EX Dustproof range.



Indoor/Outdoor.



Sustainably Recyclable.



Polycarbonate Body.



Serviceable: All units are serviceable and all parts replaceable.



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



Colour rendition index 80+.



World class LED Life rating.



Earth connection and CLASS I insulation fixture.



Optic impact rating IK08/5J.



Voltage surge protection 1-2kV.



All screws & mini shackles in stainless steel.



Suspended by chain or steel cable. (not included)



Surface mount.



5 year warranty:
Please visit
www.energywise.co.za

Extras

Optional extras.



Casambi Bluetooth technology.



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



Replaceable surge protection.
Up to 10kV.



IES files available.



Emergency battery backup.



VOLTpro.

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 Ta 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.



Torch

Marine grade, Industrial spec, Die hard.

Our LED bulkhead is composed of high-pressure LM6 Marine grade cast aluminum body and clear polycarbonate diffuser all wrapped up with an IP65 rating and able to withstand temperatures of 40 degrees ambient. Available in 4 different light distributions and standard with a replaceable 10kV surge protection and a high system efficacy of up to 128 lm/w.



Full metal jacket.

Our Industrial Torch Bulkhead is a fitting whose body has proved itself at cooling, protecting and housing luminaries in some of the most rugged environments in Africa.

It is made from LM6 Marine grade cast aluminum with a clear polycarbonate cover wrapped up with an IP65. Elon Musk has already ordered 1000 to hang up outside his Mars base. Jokes aside there isn't much this bulkhead can't easily brush off.

With an incredibly efficient heat dissipation design and a replaceable 10kV surge protection this Torch is simply stuck on the wall and forgotten about.

KEY FEATURES

LENSES

- 4 different optics.

FRONT COVER

- Impact rating IK08/5J

TEMPERATURE

- Ambient room temperature -25°C to +40°C.

MOUNTING OPTIONS

- Surface mounting brackets
- Pole mount
- Pole mount with swivel



**5 Year
Warranty**
*T&Cs apply



kV Protection:
Up to 10kV
Standard



**Outdoor/
Indoor**



**LM6 Marine
Grade Cast
Aluminum**



Diffuser:
IK08/5J



**Fully
Serviceable**



Specifications

The perfect configuration for its job.



kV Protection:
Replaceable 10kV
Surge Protection



Indoor/Outdoor



Impact Resistance:
IK08/5J



Lenses:
Polycarbonate



Construction:
Aluminum &
Stainless Steel



**LM6 Marine
Grade Cast
Aluminum**

TORCH

Effective Lumen up to:

8560 lm

240V:
Effective Efficacy:

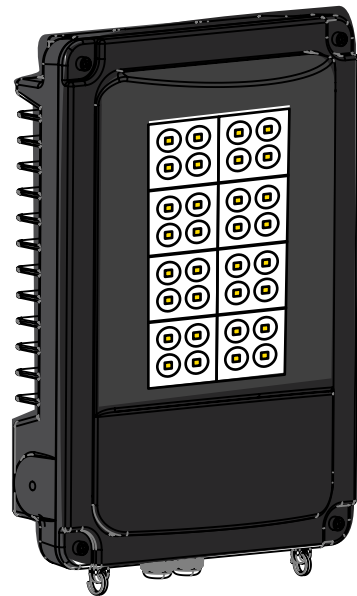
67W
128 lm/w

Max Ta:
L&B:

40°C
L80 B10
40°C 60K hrs

Fitting Size LxBxH:

400x
280x
115mm



Installation

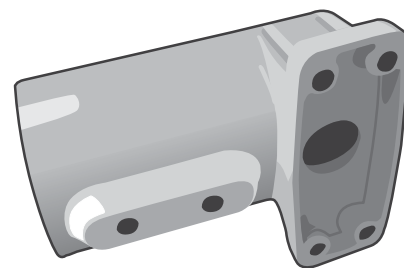
Easy to install, **Saving** you time & money

The Torch is a purpose designed LED bulkhead built for an industrial environment where dust is an explosive issue. Four easily attached mounting feet as standard. Alternatively a wall bracket is optional

**Mount - Surface
mounting brackets**
Solid, no fuss brackets.



**Mount - Pole
mounting brackets.**
Swivel bracket or pole
spigot on request.



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.

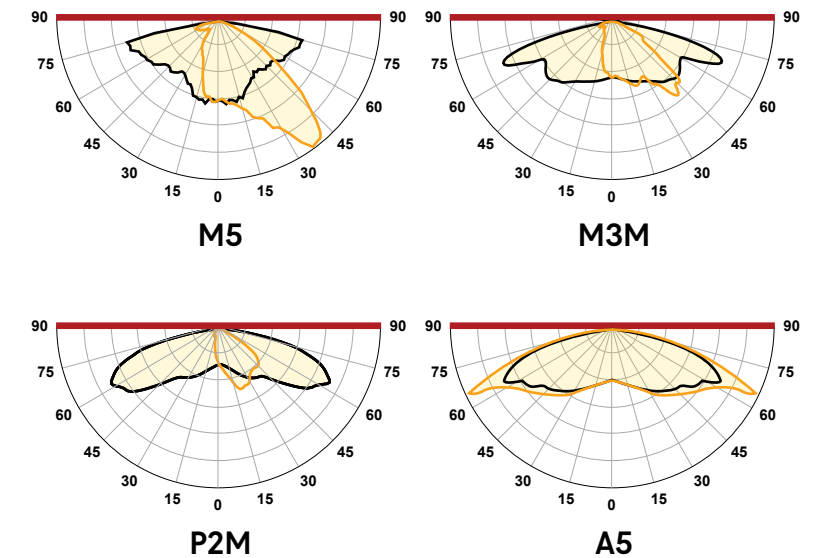
We are ISO 9001-2015 compliant and our assembly line follows IEC 60958 guidelines – our products are covered by a Product Liability Policy. Our LED products are covered by a 5 year warranty* *T&C's apply, please check with Head Office for further details.

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 car parks or walkways or throwing wide beams across open spaces.



A Closer Look

Engineered to the highest standards.

Heat-sink

This industrial bulkhead is specifically designed for LEDs, it has an external heat sink allowing for effective heat dissipation outside of the fitting.

Cover

Polycarbonate cover offers great IK08 impact protection. The continuous rubber gasket allows for a water-resistant (IP65) assembly.

Lenses

For your choice of distribution options.

LEDs

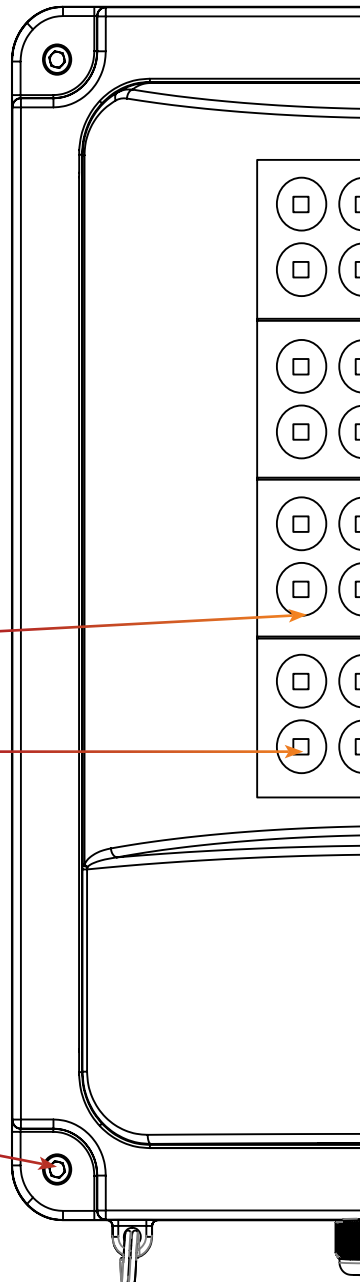
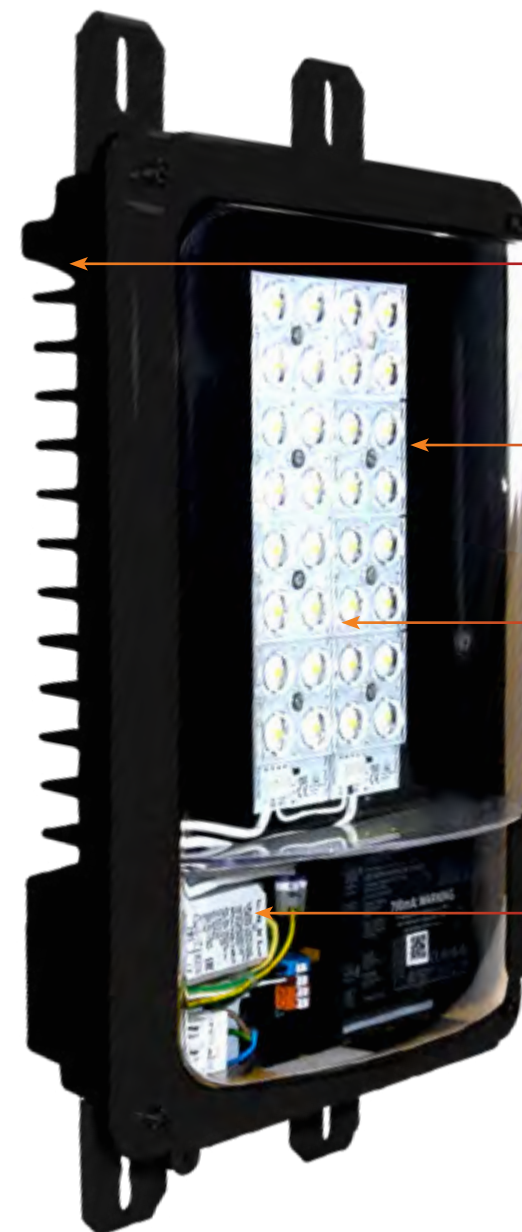
Sourced from the best component manufacturers in Europe to ensure maximum lifespan, quality and light spectrums.

Surge Protection

Replaceable 10kV voltage

Finishings

All fasteners are Stainless Steel 316 rust free longevity.



Features

Standard across the Torch bulkhead range.



Water resistant.



Sustainably Recyclable.



Polycarbonate lens and front cover.



Serviceable: All units are serviceable and all parts replaceable.



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



Colour rendition index 75+, 80+ on request.



Top Bin Chips <3 MacAdam Ellipses.



Earth connection and CLASS I insulation fixture.



Front cover impact rating IK08/5J.



Replaceable voltage surge protection 10kV.



Aluminum alloy with stainless steel 316 fasteners.



Surface mount.



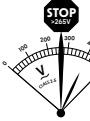
LM6 Marine Grade Cast Aluminum.

Extras

Optional extras



IES files available.



VOLTpro.



Different colour options.

Effective lumen output after warm up:

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 Ta 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.

5 year warranty:
Please visit
www.energywise.co.za



LEDeBay OTV trade



Bay XF

Low glare, high visibility.

Highbay

High power light industrial highbay designed to out spec, outperform and outlast the competition.

Lowbay

For commercial environments that require a little less punch but the same exceptional distribution look no further the Lowbay XF



High lumen, low glare.

First there was the HIGHbay XP, the high powered, high IP king of industrial lights. Soon we had a call for the same quality fitting, better spec'd for smaller environments.

Think Highbay, think retail, think BayXF. Our XF range is the perfect commercial partner for your business. With high quality optics and a refined appearance this luminaire carries the lens package to ensure the light goes where you need it most.

KEY FEATURES

LENSES

- 4 different optics for countless optic combinations

7 SIZE OPTIONS

- HIGHbay XF 104, 204, 304
- LOWbay XF 104, 106, 204, 304

OPTICS

- Impact rating IK08/5J

MOUNTING OPTIONS

- Ceiling mount
- Suspended / Pendant

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



Indoor



Specifications

Spec'd for every situation.

Our HIGHbay XF can be manufactured to your desired specifications, see the options below.



kV Protection:
Up to 10kV



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



Indoor



**Sustainably
Recyclable**

HIGHbay XF 104

Effective Lumen:	3600 lm	5038 lm	5840 lm	6686 lm	7532 lm
240V:	23W	33W	38W	49W	59W
Effective Efficacy:	156 lm/w	151 lm/w	155 lm/w	136 lm/w	132 lm/w
Max ambient:	30°C	30°C	30°C	30°C	30°C
L&B:	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs
1250 mm					

HIGHbay XF 204

Effective Lumen:	7736 lm	10692 lm	12276 lm	14484 lm	16872 lm
240V:	48W	67W	80W	98W	122W
Effective Efficacy:	163 lm/w	159 lm/w	153 lm/w	148 lm/w	138 lm/w
Max ambient:	30°C	30°C	30°C	30°C	30°C
L&B:	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs
1250mm					

HIGHbay XF 304


Effective Lumen:	11604 lm	16038 lm	21736 lm
240V:	71W	101W	148W
Effective Efficacy:	163 lm/w	159 lm/w	155 lm/w
Max ambient:	30°C	30°C	30°C
L&B:	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs
1250 mm			




Specifications

Spec'd for every situation.


Our LOWbay XF can be manufactured to your desired specifications, see the options below.




kV Protection:
Up to 10kV



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



Indoor



**Sustainably
Recyclable**

LOWbay XF 104

Effective Lumen:	3868 lm	5346 lm	6138 lm	7242 lm
240V:	24W	34W	40W	49W
Effective Efficacy:	163 lm/w	159 lm/w	153 lm/w	148 lm/w
Max ambient:	30°C	30°C	30°C	30°C
L&B:	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs
1250 mm				

LOWbay XF 204

Effective Lumen:	7736 lm	10692 lm	12276 lm	14484 lm
240V:	48W	67W	80W	98W
Effective Efficacy:	163 lm/w	159 lm/w	153 lm/w	148 lm/w
Max ambient:	30°C	30°C	30°C	30°C
L&B:	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs
1250 mm				

LOWbay XF 304

Effective Lumen:	11604 lm	16038 lm	17520 lm	21736 lm
240V:	71W	101W	121W	147W
Effective Efficacy:	163 lm/w	159 lm/w	153 lm/w	148 lm/w
Max ambient:	30°C	30°C	30°C	30°C
L&B:	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs	L80 B10 50K Hrs
1250 mm				

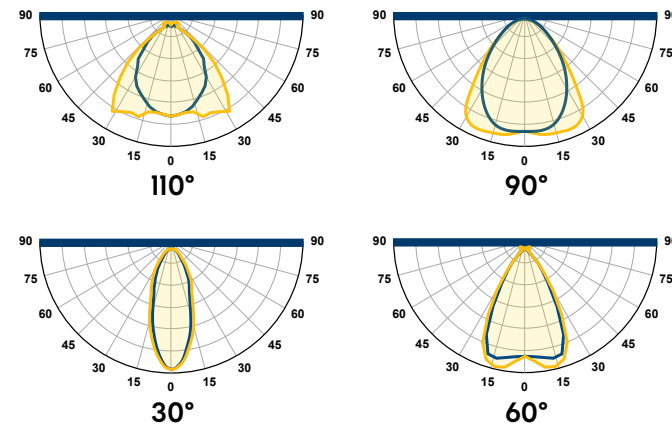


Distribution Options

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. Introducing our 60° UGR lenses (see page 6), which are now available for the Bay XF.



A Closer Look

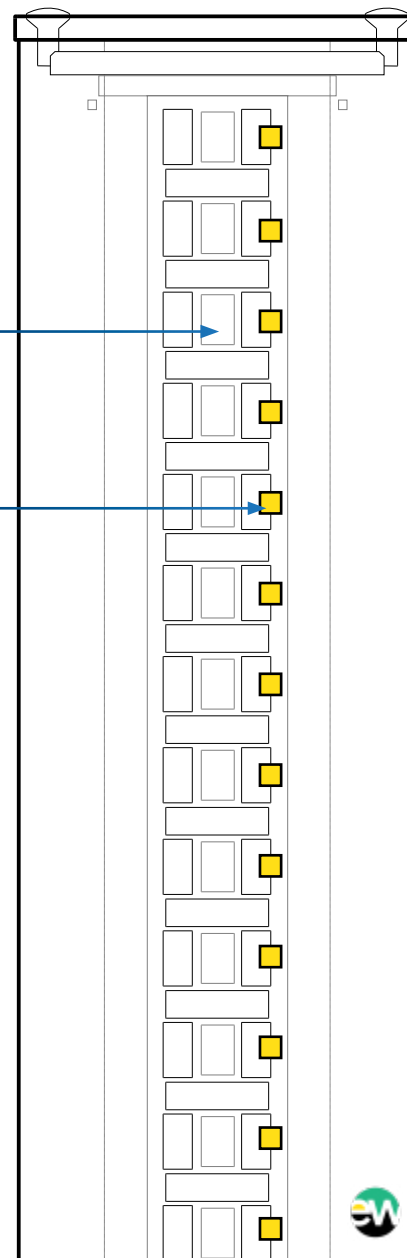
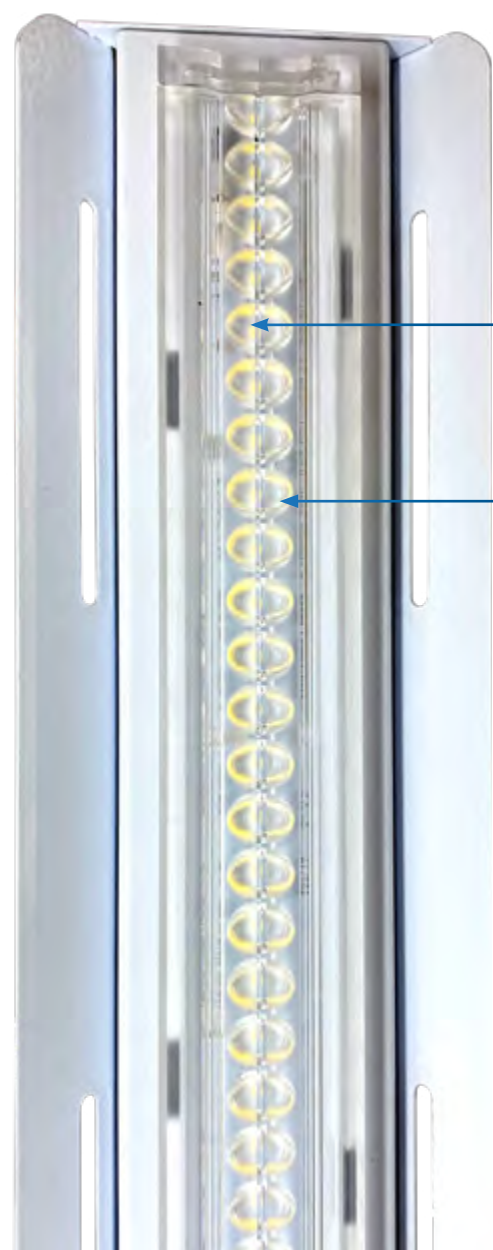
Engineered to the highest standards.

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.



Features

Standard across the BAY XF range.



Indoor.



Sustainably Recyclable.



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 MacAdam Ellipses.



World class LED Life rating.



Earth connection and CLASS I insulation fixture.



Optic impact rating IK08/5J.



Voltage surge protection up to 4Kv.



Suspended by chain or steel cable. (not included)

Extras

Optional Extras.



Casambi Bluetooth technology.

Bluetooth



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.



VOLTpro.



Different colour options.

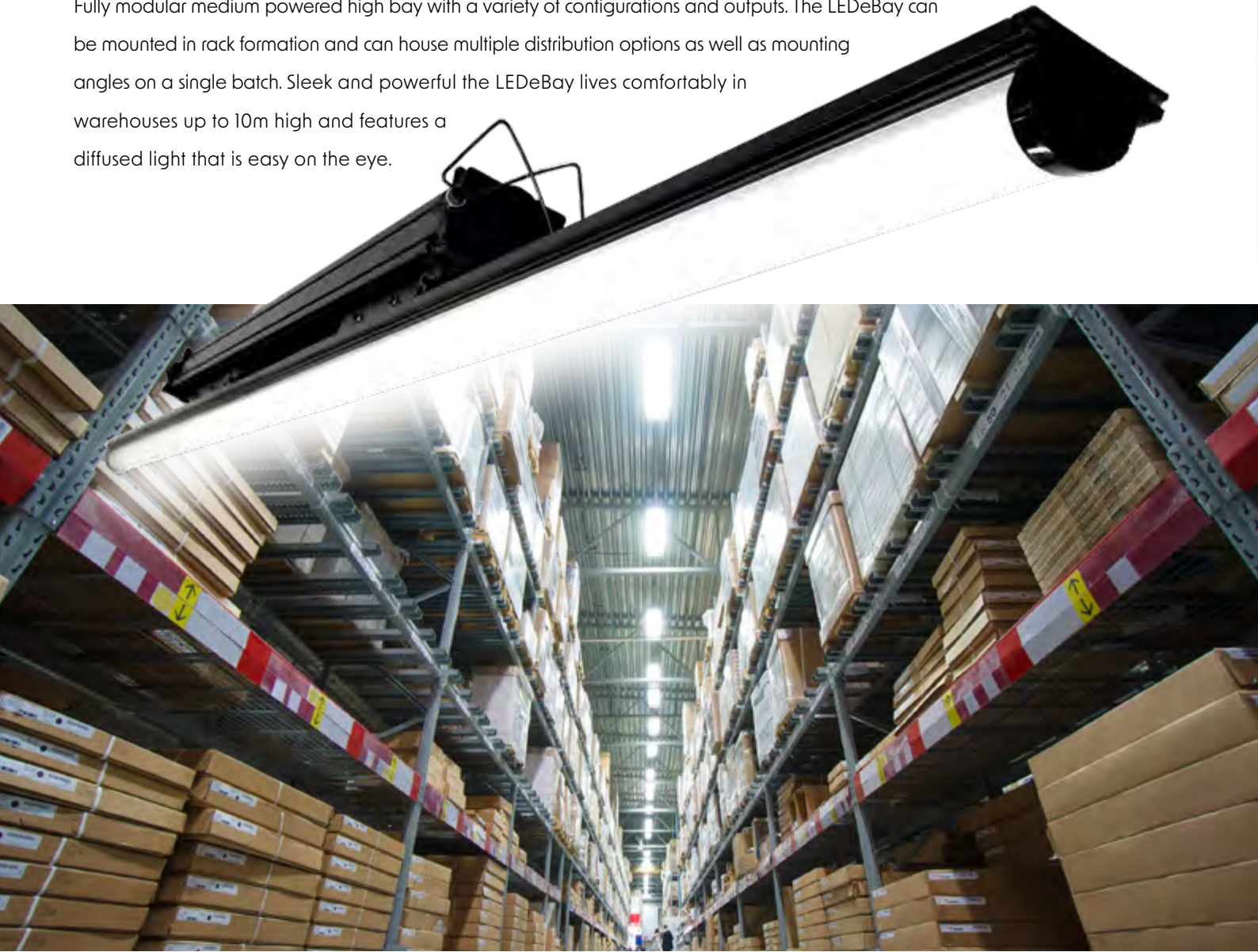


5 year warranty:
7 Year available T&Cs apply
Please visit
www.energywise.co.za

LEDeBay

High output. Low maintenance.
No nonsense.

Fully modular medium powered high bay with a variety of configurations and outputs. The LEDeBay can be mounted in rack formation and can house multiple distribution options as well as mounting angles on a single batch. Sleek and powerful the LEDeBay lives comfortably in warehouses up to 10m high and features a diffused light that is easy on the eye.



Industrial

IP 40

High low its off to work we go.

With nearly a decade of lighting design behind us we have undertaken some truly unique projects which in turn have resulted in some magnificent luminaries. Our LEDeBay is one such fitting. This luminaire is what would happen if a highbay and slim profile linear fitting had a child. Sleek and powerful the LEDeBay lives comfortably in warehouses up to 10m high and features a diffused light that is easy on the eye.

For fast installation and low maintenance you really can't do better.. This beautiful piece of tech is designed to look simple and perform to the highest standard.

1,2,3,4,5 lights? How about doubling that running side by side or in long lengths! With the LEDeBay's ingenious grip module you can set up your lights in a variety of ways for maximum output in whatever space you have available.

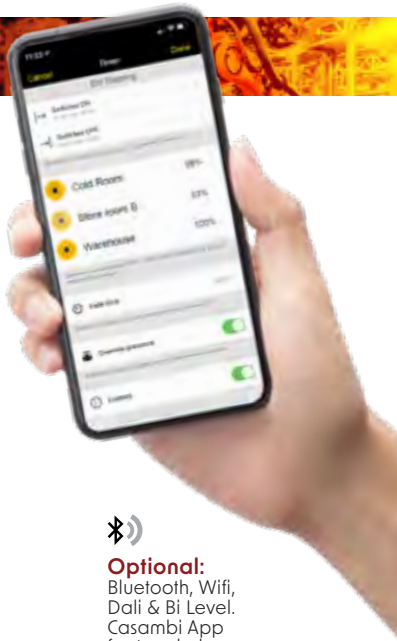
KEY FEATURES

3 SIZE OPTIONS

- LEDeBay 104 1200mm
- LEDeBay 106 1700mm
- LEDeBay 108 2250mm

TEMPERATURE

- Ambient room temperature up to +35°C.



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



5 Year Warranty
*T&Cs apply

Fully Serviceable

kV Protection:
4kV surge protection

Indoor

Diffuser:
Acrylic

Modular:
Expandable system

Mount:
P2000 Compatible

Optional:
Bluetooth, Wifi, Dali & Bi Level



Specifications

Spec'd for **every** situation.



kV Protection:
1/2kV surge
protection. 4/10kV
available



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

**IP
40**

Indoor/Outdoor



**Now with
Lenses**
30°, 60°, 90°



Diffuser



Plug & Play

LEDeBay

104

106

108

Effective Lumen: 5641 lm

240V: 46W
Efficacy: 123 lm/w

Max Ta: 35°C
L&B: L80/90 B10
70 000 Hrs

Fitting Length: **1200mm**

8462 lm

69W
123 lm/w

35°C
L80/90 B10
70 000 Hrs

1700mm

9969 lm

79W
125 lm/w

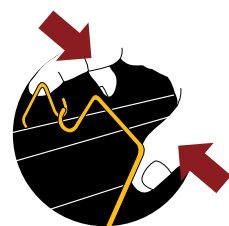
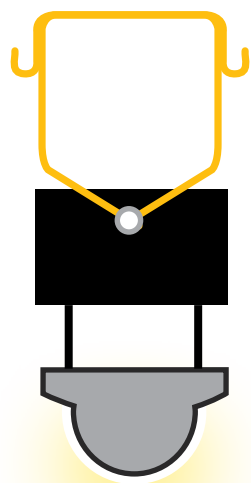
35°C
L80/90 B10
70 000 Hrs

2250mm

Installation

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

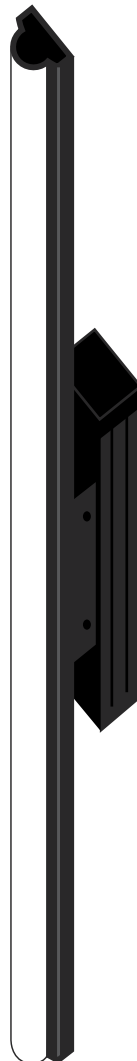
The LEDeBay has two simple methods of installations as pictured below.



P2000 Claw

P2000 Claw Mount

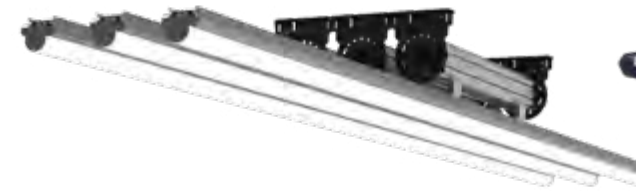
For quick and simple attachment of
the LED eBay to P2000 trunking. **On
request**



Modularity, one fitting, many pairing options.

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

Our other **modular** fittings.



LEDeBay 103



Bay XP
Factories, Warehouses,
Supply rooms etc.

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



Bay XL
Factories, Warehouses,
Supply rooms etc.

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



1 x 104 5641 lm

1 x 106 8462 lm

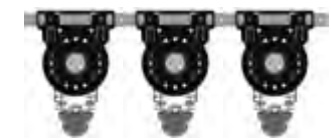
1 x 108 9969 lm



2 x 104 11 282 lm

2 x 106 16 924 lm

2 x 108 19 938 lm



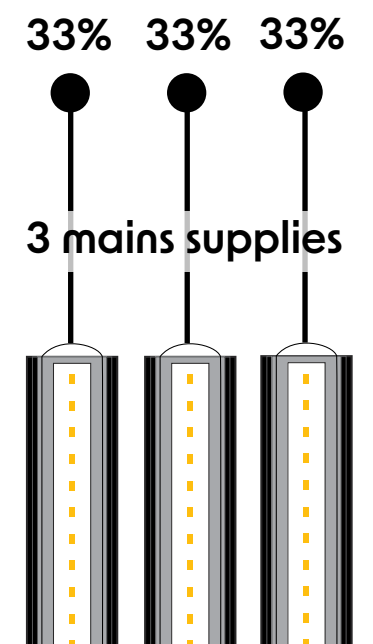
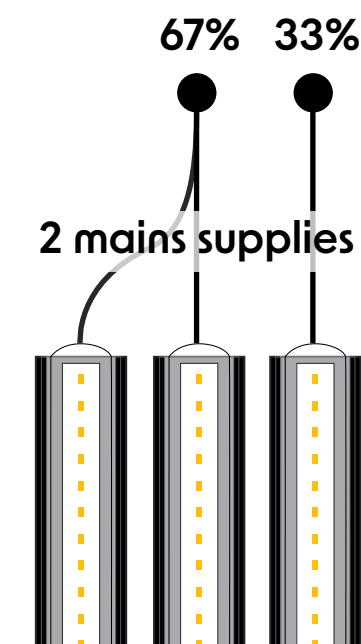
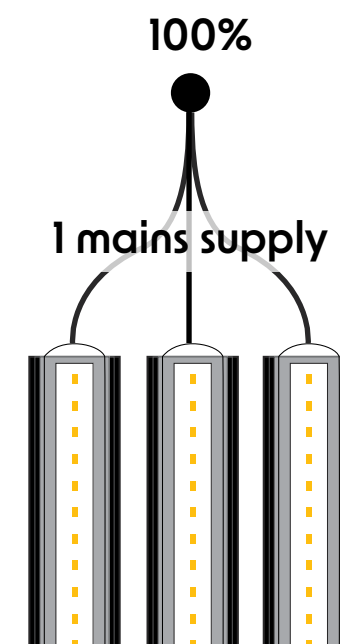
3 x 104 16 924 lm

3 x 106 25 386 lm

3 x 108 29 907 lm

Suggested wiring options.

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

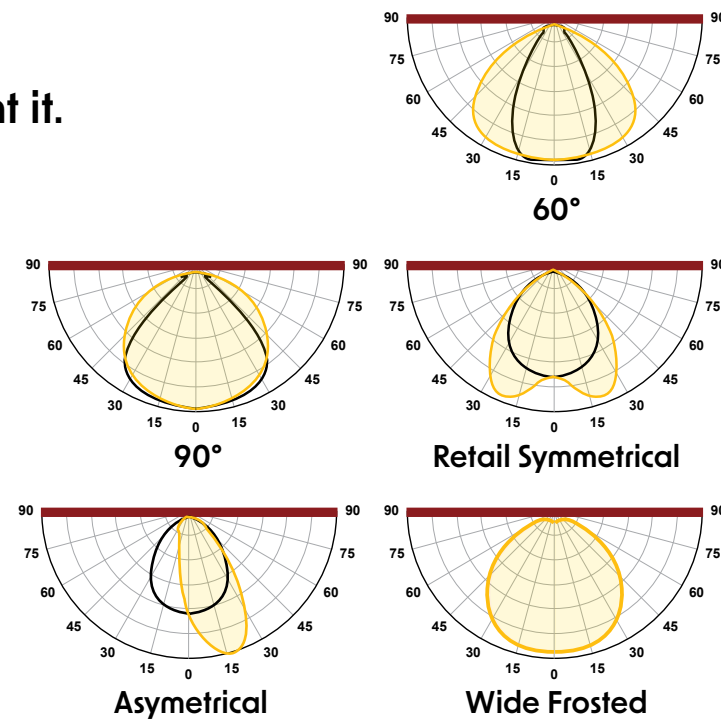


Distribution Options

The light you need, where you want it.

Diffusers provide a low glare solution to your lighting needs without compromising on light quality.

These indoor highbay luminaires project a wide spread of light and are ideal for lighting up small warehouses, supply rooms, sheds etc



A Closer Look Engineered to the highest standards.

Diffuser

PMMA diffuser offers great protection and efficient distribution of light.

LEDs

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

Lenses

Polycarbonate lens offer great IK08 impact protection and efficient distribution control. New lens options for the LEDeBay are 30°, 60° & 90°

Features

Standard across the LEDeBay range.



Indoor.



Lenses 30°, 60°, 90°.



Acrylic diffuser.



Serviceable: All units are serviceable and all parts replaceable.



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



Colour rendition index 80+.



World class LED Life rating.



Earth connection and CLASS I insulation fixture.



Voltage surge protection 4kV.



Suspended by chain or steel cable. (not included)



Plug & Play.



Sustainably Recyclable.



5 year warranty:
Please visit
www.energywise.co.za

Extras

Optional extras.



Casambi Bluetooth technology.

Bluetooth



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



Replaceable surge protection.
Up to 10kV.



IES files available.



VOLTpro.

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 Ta of 25°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.

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- to comply or conform to suppliers updates or according to new safety standards.

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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 3 year, extendable to 5 year warranty*
*T&C's apply, please check with Head Office for further details.



Retail & Commercial



LEDrail 1000 & 2000

Long, longer lasting lights.

Linear LED solution perfect for fluorescent replacements or elegant runs of continuous evenly distributed light. Easily suited to offices, retail or conference rooms thanks to the remote driver and the fitting's ability to be mounted floating, recessed or flush with your ceiling.



Fast magnetic mounting,
toolless installation



Complicated construction, simple job.

Fluorescents are dead, long live LED.

LEDs are an energy-efficient lighting option that can help save up to 40% on electricity costs compared to traditional fluorescent bulbs. Our unique design not only offers a sleek aesthetic but also maximizes the superior attributes of LEDs, providing better quality lighting for a fraction of the cost.

Take a deep dive into the mechanics of our LEDrail 1000 & 2000 and you will notice a high level of precision. Our engineers spent months designing this luminaries housing to ensure a happy marriage between cutting edge tech and aesthetic value.

Our designers also crafted these LEDrails so they can be joined to create continuous lines of light that can stretch as far as your imagination without gaps or dull spots throughout its length no breaks in light.

KEY FEATURES

5 SIZE OPTIONS

- LEDrail 1000 & 2000 104 1100mm
- LEDrail 1000 & 2000 106 1700mm
- LEDrail 1000 & 2000 108 2300mm
- LEDrail 1000 & 2000 110 2800mm
- LEDrail 1000 206 (double)

MOUNTING OPTIONS

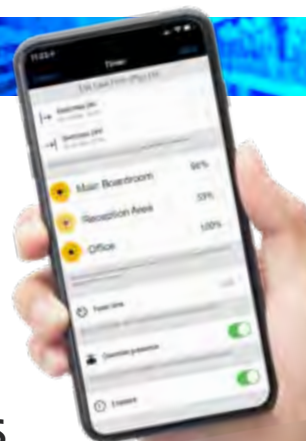
- Ceiling mount
- Floating mount
- Pendant mount

MODULAR

- With extra Lumen Packages up to 16900 lm.

HOUSING

- Frosted for a harmonious band of soft light.
- Clear.



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



Specifications

From green grocers to parking garages.

Our premium LEDrail fittings are designed and manufactured in South Africa for South Africans. They feature high quality Italian and German components but engineered for our African climate.

4kV Protection:
1kV-2kV. 4kV or 10kV on request

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

Indoor

Mount
P2000 Mount

Acrylic Diffuser

Modular:
Expandable system

	LEDrail 2000 104	1140 mm
Effective Lumen:	3116 lm	4300 lm
240V:	23W	33W
Effective Efficacy:	137 lm/w	131 lm/w
Max ambient:	30°C	30°C
L&B:	L80/90 B10 F10 70K hrs	L80/90 B10 F10 70K hrs

	LEDrail 1000 206	1680 mm
Effective Lumen:	9348 lm	12900 lm
240V:	69W	99W
Effective Efficacy:	137 lm/w	131 lm/w
Max ambient:	30°C	30°C
L&B:	L80/90 B10 F10 70K hrs	L80/90 B10 F10 70K hrs

All fitting options (F10 Drivers, 70K hrs @ 35°C)

Name	Length	50°C	50°C	50°C
104	1150	3116lm/23w	4300lm/33w	4984lm/40w
105	1400	3896lm/29w	5454lm/41w	6230lm/50w
106	1680	4675lm/34w	6451lm/49w	7526lm/60w
108	2240	6233lm/46w	8601lm/66w	9968lm/80w
110	2800	7792lm/58w	10908lm/82w	12460lm/100w
206	1680x2	9348lm/69w	12900lm/99w	14952lm/120w

KEY Differences

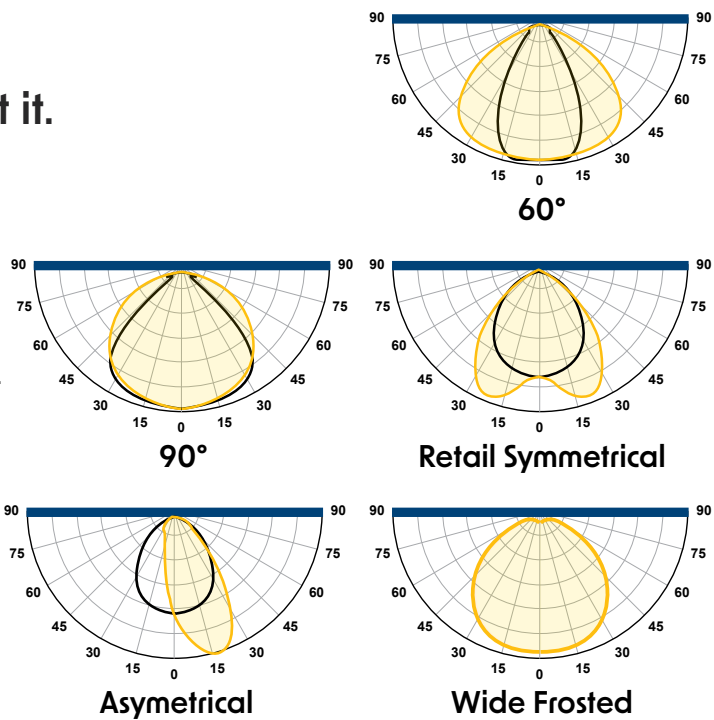
LEDrail 1000 has a remote driver
LEDrail 2000 sits in-line with a P2000, the driver is housed within the P2000 trunking.

Distribution Options

The light you need, where you want it.

Diffusers provide a low glare solution to your lighting needs without compromising on light quality.

These indoor luminaries project a wide spread of light and are ideal for lighting up most small to medium retail environments, with a soft feel and effective lighting solution.



A Closer Look

Engineered to the highest standards.

Diffuser

A harmonious band of light pours through our diffusers for an even, simple light source to keep you focused on the task at hand.

LEDs

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

Construction

With months of R&D behind it, this sleek LED fitting was designed to be both elegant and powerful with loads of tech designed into a thin luminaire that won't demand much attention but delivered in spades. This unique luminaire comes standard with a 5-year warranty, carries greatly reduced running costs and is considered flicker free ensuring staff and customers never suffer from headaches and the like which can often accompany fluorescent fittings.



Installation

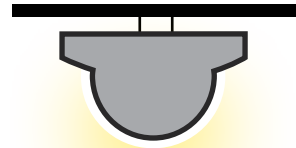
Easy to install, Saving you time & money

The LEDrail 1000 & 2000 are simple to install with 4 main mounting options. The LEDrail 2000 is made to fit P2000 trunking perfectly.

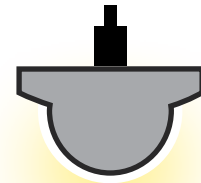
LEDrail 1000



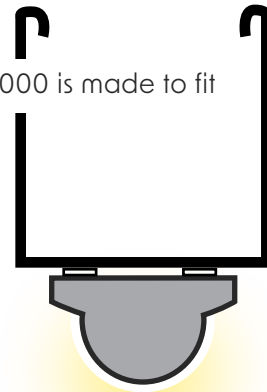
Ceiling Mount
Available with an intelligently engineered magnet system to securely mount to most metal surfaces. **On request**



Floating Mount
A mount for areas where a ceiling mount isn't possible. **On request**

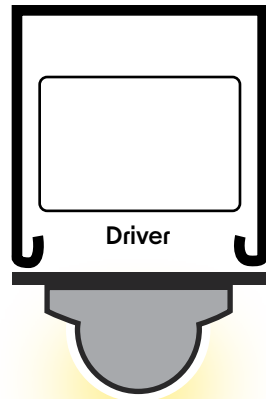


Pendant Mount
For hanging the fitting at your desired height. **On request**



Magnetic Mount
For placing the fitting on any metal surface. **On request**

LEDrail 2000



P2000 Mount
Our LEDrail 2000 is made specifically for P2000 trunking and has a unique magnetized mount.

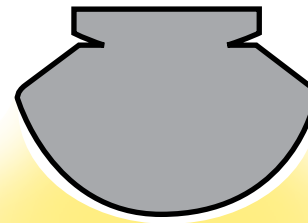
Diffusers



A Standard Diffuser
The LEDrail 1000 has a 180° distribution for a broad soft light to light up large areas.



B Winged Diffuser
This added diffuser give you the option to focus the light to a particular area. It also gives you the option to add colour to your light. **On request**



C Type D Diffuser
The Type D diffuser enhances the visual experience by increasing the surface area in a unique way. It creates a beautiful, soft glow without any hot spots, resulting in a more pleasing aesthetic. **On request**

Disclaimer:

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- 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.

Features

Standard across the LEDrail 1000 & 2000 range.



Indoor.



Sustainably Recyclable.



Acrylic frosted or clear housing.



Serviceable: All units are serviceable and all parts replaceable.



Colour temperature 3000K, 4000K, 5000K or 6500K.



Colour rendition index 80+



LED Life rating.



Modular.



Earth connection and CLASS I insulation fixture.



Ceiling mount.



Suspended by chain or steel cable.



5 year warranty:
Please visit
www.energywise.co.za

Extras

Optional Extras.



Casambi Bluetooth technology.
Bluetooth



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



Excellent Luminous Efficacy (Lm/W).



Replaceable 10 kV surge protection module.



IES files available.



VOLTpro.

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 Ta 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.

LEDrail 4000 & 8000

Aesthetically crisp & professionally elegant.

In design sometimes less is more, and that is certainly true for the clean lines of the Ledrail 4000 & 8000. This luminaries driver and power management system is all housed within the fitting giving it a sleek profile.



Built in Driver

Remote Driver



An all in one commercial solution.

The LEDrail 4000 & 8000 were originally designed in 2015 and thanks to continuously innovative tech upgrades this workhouse still remains a benchmark for high powered solutions for offices and high-end retail spaces.

This luminaire aesthetics allow it to comfortably occupy centre stage whilst its masterfully diffused light is gentle on the eye whilst packing a serious lumen punch allowing you to focus on getting the job done. No frills. No-fuss. Just great lighting.

The LEDrail 8000 has its driver, surge protector and other electronics housed within the back of the fitting allowing for clean look and efficiency in its symmetry. This simplicity makes the LEDrail 8000 ideal as an architectural hanging pendant. The LEDrail 4000s difference in that it features a remote driver which can be housed within the ceiling.

KEY FEATURES

MODULAR

- Allowing the fitting to be as long or consolidated as you need.
- With extra Lumen Packages up to 11200 lm.

5 SIZE OPTIONS

- LEDrail 4/8000 104 1150mm
- LEDrail 4/8000 105 1500mm
- LEDrail 4/8000 106 1700mm
- LEDrail 4/8000 107 2000mm
- LEDrail 4/8000 108 2300mm



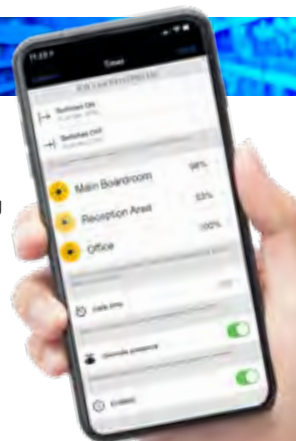
Optional:
Bluetooth, Wifi,
Dali & Bi Level.
Casambi App
featured above.

OPTICS

- Our infinity diffuser means no unsightly breaks in the light making it a beautiful product for boardrooms and the like.

MOUNTING OPTIONS

- Ceiling, Floating or Pendant
- Recessed mount for the Ledrail 4000 only
- P2000



Specifications

From dealerships to boardrooms.

Standard fitting finish options are white, anodised and black. Bespoke colour options on request.



kV Protection:
1kV-2kV, 4kV or
10kV on request



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



Indoor



Colour Options:
White, Anodised
& Black



**Suspended/
Pendant Mount**



**Ceiling
Mount**

LEDrail 4000 104 1150 mm

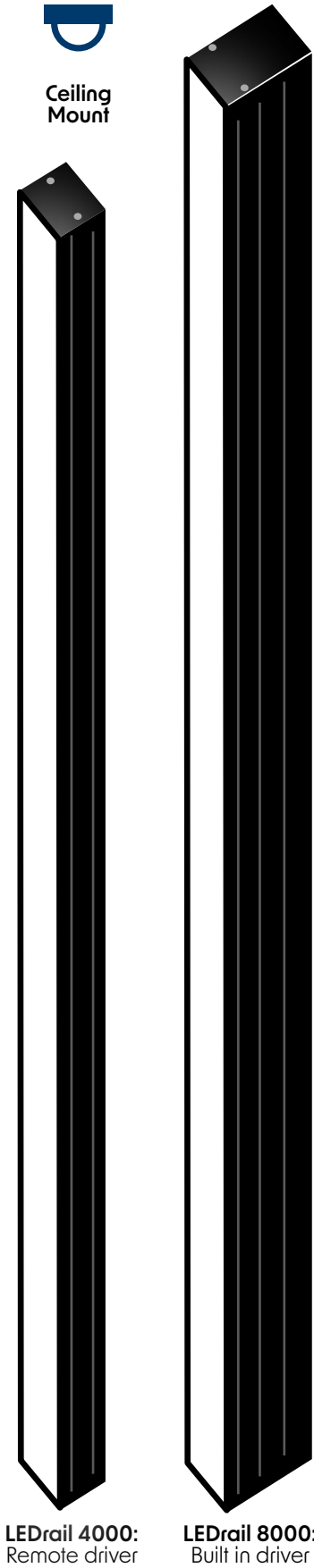
Effective Lumen:	3116 lm	4300 lm	4984 lm	5641 lm
240V:				
Effective Efficacy:	23W 137 lm/w	33W 131 lm/w	40W 125 lm/w	46W 123lm/w
Max ambient: L&B:	50°C L80/90 B10 F10 70K hrs	50°C L80/90 B10 F10 70K hrs	50°C L80/90 B10 F10 70K hrs	50°C L80 B10 F10 70K hrs

All LEDrail 4000 fitting options

Name	Length	50°C	50°C	50°C	40°C
104	1150	3116lm/ 23w	4300lm/ 33w	4984lm/ 40w	5641lm/ 46w
105	1400	1678lm/ 29w	2350lm/ 41w	2772lm/ 50w	3300lm/ 58w
106	1680	2013lm/ 34w	2820lm/ 49w	3326lm/ 60w	3960lm/ 69w
108	2240	2684lm/ 46w	3760lm/ 66w	4435lm/ 80w	5280lm/ 92w
110	2800	3355lm/ 58w	4700lm/ 82w	5544lm/ 100w	6600lm/ 69w

All LEDrail 8000 fitting options

Name	Length	50°C	50°C	50°C	40°C
104	1150	3116lm/ 23w	4300lm/ 33w	4984lm/ 40w	5641lm/ 46w
105	1420	3896lm/ 29w	5376lm/ 41w	6230lm/ 50w	7052lm/ 58w
106	1720	4675lm/ 34w	6451lm/ 49w	7526lm/ 60w	8462lm/ 69w
107	2000	5454lm/ 40w	7526lm/ 57w	8723lm/ 70w	9873lm/ 81w
108	2280	6233lm/ 46w	8601lm/ 66w	9969lm/ 80w	11283lm/ 92w

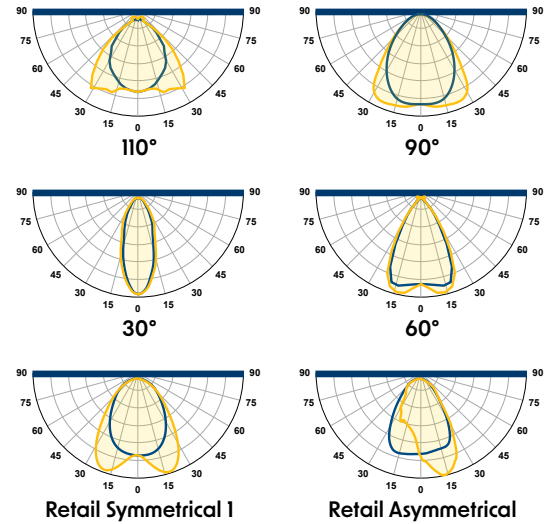


Diffused light

Light to work to.

The **diffuser designed** for the 4000 & 8000 provides a low glare perfect for offices, boardroom, and a host of commercial environments.

The design of these LEDrails was conceived to create a simple, elegant fitting that would proudly take centre stage in any office. Beauty and brains, this luminaire is also available with casmabi Bluetooth™ technology or a Dali or Bi-level driver.



A Closer Look

Engineered to the highest standards.

Driver →

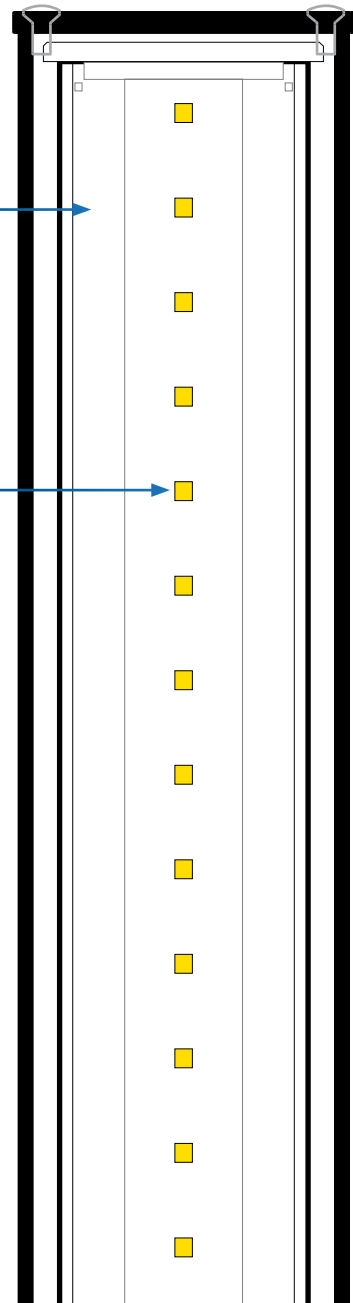
The driver powering this elegant light is housed within the fitting body to add to that slick, simple design. The LEDrail 4000 has a remote driver which can be placed out of sight and offers a thinner profile.

LEDs →

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

← **Diffuser**

A harmonious band of light pours through our diffuser. We use a infinity diffuser which allows for as long as you can imagine continuous beam of light without any breaks.

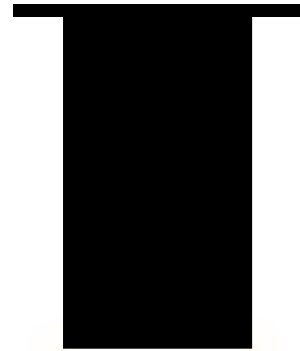


Installation

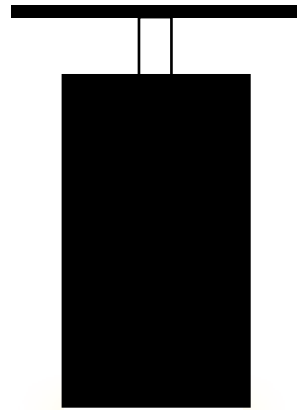
Easy to install, **Saving** you time & money

The LEDrail 4000 & 8000 family are simple to install with a few different mounting options. Please specify your preference when ordering your LEDrails

LEDrail 8000



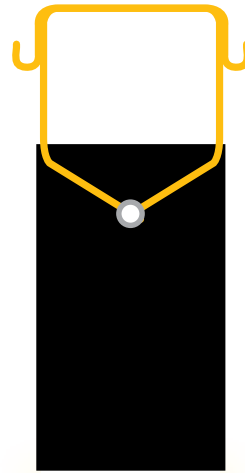
Ceiling Mount
A simple system to mount your new fittings directly to most ceilings.



Floating Mount
A mount for areas where a ceiling mount isn't possible.

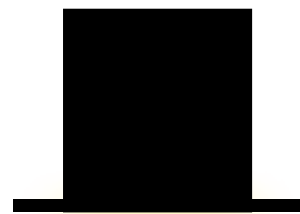


Suspended Mount
For hanging the fitting at your desired height.



P2000 Claw Mount
For quick and simple attachment to P2000 trunking.

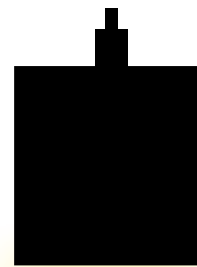
LEDrail 4000



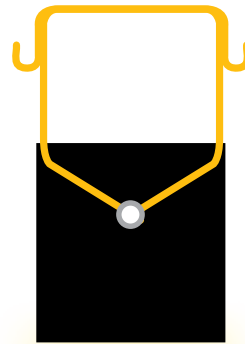
Recessed Mount
A beautiful mounting option where most of the fitting isn't visible to let the light really shine.



Ceiling Mount
A simple system to mount your new fittings directly to most ceilings.



Suspended Mount
For hanging the fitting at your desired height.



P2000 Claw Mount
For quick and simple attachment to P2000 trunking.

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- 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 Ta of 25°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 LEDrail 4000 & 8000 range.



Indoor.



1kV-2kV standard voltage surge protection.



Sustainably Recyclable Aluminum.



Acrylic diffuser.



Serviceable: All units are serviceable and all parts replaceable.



Colour temperature 5600K.



Colour rendition index 80+.



LED Life rating.



Earth connection and CLASS I insulation fixture.



Ceiling mount.



Floating mount.



Suspended by chain or steel cable.



Infinity diffuser.



5 year warranty:

Please visit www.energywise.co.za

Extras

Optional Extras.



Casambi Bluetooth technology.

Bluetooth



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



Excellent Luminous Efficacy (Lm/W).



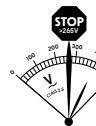
4kV surge protection upgrade available.



10kV replaceable surge protection module.



IES files available.



VOLTpro.



Different colour options.

LEDrail 4100

The undisputed king of retail lighting.

Our flagship linear retail LED solution designed standard with 1/2kV surge protection upgradeable to 4kV or 10kV on request. Featuring eight lens options including retail symmetrical designed specifically for retail isles as well as the ability to upgrade to multi-wire circuit configurations and an almost tool-free installation. The 4100 is a pre-wired linkable system with plug & play connections with up to 3 circuits L&N.



5 year warranty:
7 year warranty
available T&Cs apply.

Over-engineered and overachieving by design

A commercial flagship built to outperform in style.

The LEDrail 4100 offers a sleek modular design combined with high-powered lumen output and refined optics. It's also been designed to be installed with enough speed to make an F1 pit team blush.

Don't let its sleek lines fool you. This luminaire is as rugged as it is refined with built-in 1/2Kv surge protection which can be upgraded to 4Kv & comprised of the highest quality Italian and German components. A 10kv replaceable surge protector can be added for protection of up to 25m of lighting per section.

The 4100 isn't an over the counter light fitting. It's a high-grade luminaire designed with no compromises and exacting attention to detail. A commercial and retail lighting weapon made to look elegant.

KEY FEATURES

MODULAR

- With extra Lumen Packages up to 21 000 lm.

LENSES

- 8 different acrylic lenses for countless optic combinations

5 SIZE OPTIONS

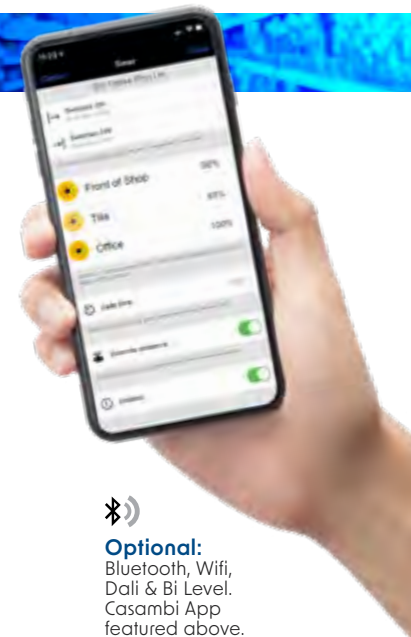
- LEDrail 4100 102 560mm
- LEDrail 4100 104 1400mm
- LEDrail 4100 106 1700mm
- LEDrail 4100 108 2350mm
- LEDrail 4100 110 2800mm

MOUNTING OPTIONS

- P2000 Compatible
- Pendant
- Floating
- Recessed



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



**5 / 7 Year
Warranty**
*T&Cs apply



**Fully
Serviceable**



kV Protection:
1kV-2kV,
4kV or 10kV on
request



Indoor



Lenses



**P2000
Compatible**



**Modular:
Expandable
system**



Optional:
Bluetooth, Wifi,
Dali & Bi Level

IP 65

INTRODUCING

LEDrail 4100 IP65

A wolf in sheep's clothing.

Designed to retain the aesthetic of the LEDrail 4100 systems but take the punch of IP65 environment the aptly named LEDrail 4100 IP65 features a resilient and sealed tubular fitting recessed into our 4100 trunking for those areas such as bakeries where the ability to take on a damp environment and keep on ticking is vital.



kV Protection:
1kV-2kV.
4kV or 10kV on request



IP65
Indoor



Recyclable



Acrylic
Diffuser



P2000
Compatible



Modular:
Expandable
system



Optional:
Bluetooth, Wifi,
Dali & Bi Level

LEDrail 4100 GAP

Proof that less is more.

The 4-100 gap offers all the lumen package of it's more renown big brother the LEDrail 4100 without the need for continuous runs. Ideal for installations requiring the same high quality output as the LEDrail 4100 without the aesthetic of a single continuous row of light the LEDrail 4100 gap is the solution for you.



kV Protection:
1kV-2kV.
4kV or 10kV on request



Recyclable



Acrylic
Lens



P2000
Compatible



Modular:
Expandable
system



Optional:
Bluetooth, Wifi,
Dali & Bi Level

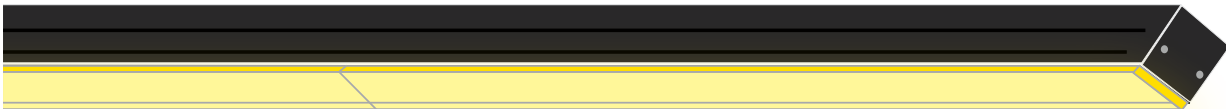


Indoor

Specifications

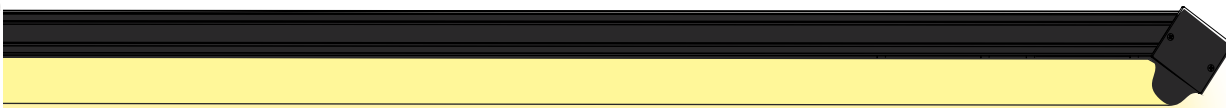
From high end retail to bakeries, boardrooms and dealerships.

Our premium LEDrail is also available as an IP65, Recessed and Gap fitting. Smaller sizes 102, 104 also available. Standard colour options are white, anodised and black. **F10** Drivers, **70K** hrs @ 35°C or **F3** Drivers, **100K** hrs @ 35°C.



LEDrail 4100 options (1kV Drivers, 70K hrs @ 35°C / 4kV Drivers, 100K Hrs @ 35°)

Name	Length	Lumen Efficacy	50°C	50°C	50°C	40°C	40°C
102	573	149-129 lm/w	1900lm/12w	2552lm/17w	2992lm/20w		
104	1133	163-138 lm/w	3868lm/24w	5346lm/34w	6138lm/40w	7242lm/49w	8436lm/61w
106	1693	163-153 lm/w	5802lm/36w	8019lm/50w	9207lm/60w	10863lm/74w	12654lm/92w
108	2253	163-138 lm/w	7736lm/48w	10692lm/67w	12276lm/80w	14484lm/98w	16872lm/122w
110	2813	163-138 lm/w	9670lm/60w	13365lm/84w	15345lm/101w	18105lm/123w	21090lm/153w



LEDrail 4100 IP65 options (1kV Drivers, 70K hrs @ 35°C / 4kV Drivers, 100K Hrs @ 35°)

Name	Length	Lumen Efficacy	50°C	50°C	50°C	40°C	40°C
102	573	160-149 lm/w	1900lm/12w	2552lm/17w	2992lm/20w		
104	1133	163-138 lm/w	3868lm/24w	5346lm/34w	6138lm/40w	7242lm/49w	8436lm/61w
106	1693	163-153 lm/w	5802lm/36w	8019lm/50w	9207lm/60w	10863lm/74w	12654lm/92w
108	2253	163-138 lm/w	7736lm/48w	10692lm/67w	12276lm/80w	14484lm/98w	16872lm/122w
110	2813	163-138 lm/w	9670lm/60w	13365lm/84w	15345lm/101w	18105lm/123w	21090lm/153w



LEDrail 4100 GAP options (4kV Drivers, 100K hrs @ 35°C)

Name	Length	Lumen Efficacy	50°C	50°C	50°C	50°C
104	1693	159-138 lm/w	5346lm/34w	6138lm/40w	7242lm/49w	8436lm/61w
106	2813	163-148 lm/w	8019lm/50w	9207lm/60w	12654lm/92w	14484lm/98w
Master Remote			50°C	50°C	50°C	50°C
106	2813	163-143 lm/w	5802lm/36w	8019lm/50w	9207lm/60w	10863lm/74w
						11949lm/84w

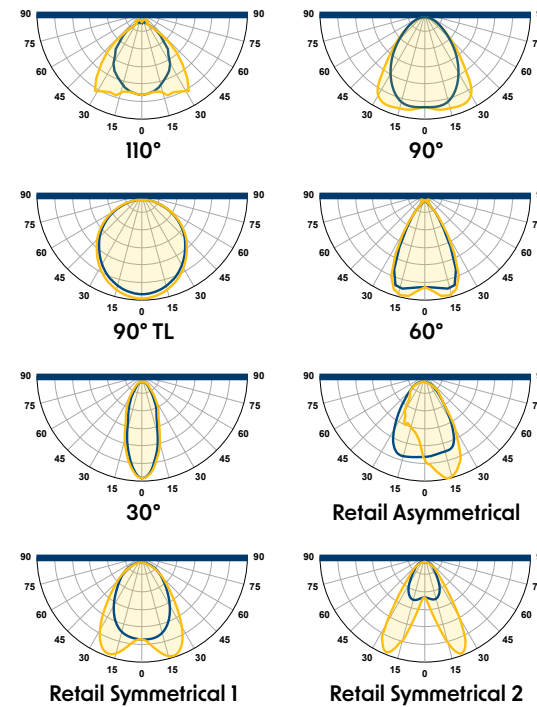


Distribution Options

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.



A Closer Look

Engineered to the highest standards.

Housing

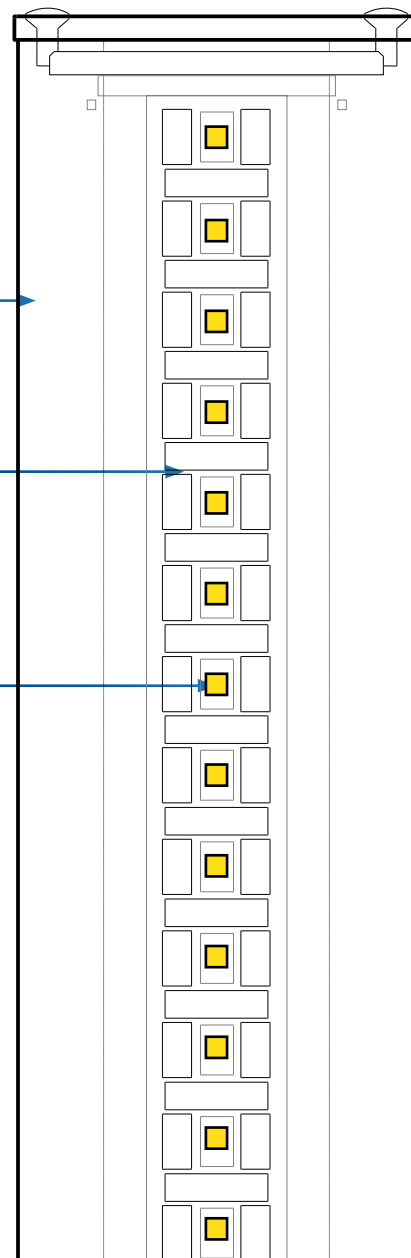
Excellent heat management for LED and Driver alike.

Lenses

PMMA Optic available as 30°, 60°, 90°, 110°, Symmetrical narrow retail, Symmetrical wide retail, Asymmetrical.

LEDs

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

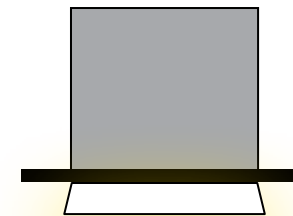


Installation

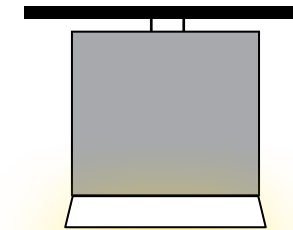
Easy to install, **Saving** you time & money

The LEDrail 4100 family are simple to install with a few different mounting options. Please specify your preference when ordering your LEDrail 4100

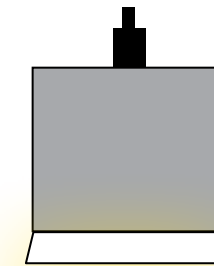
IP40



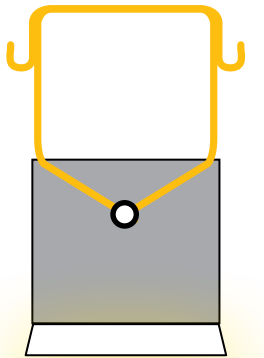
Recessed
Quick spring loaded attachment for a snug and secure fit.



Floating Mount
A mount for areas where a ceiling mount isn't possible.

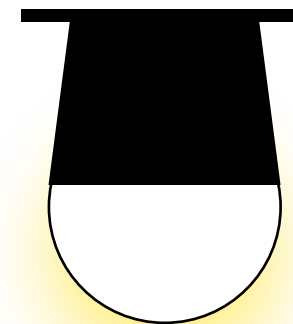


Suspended Mount
For hanging the fitting at your desired height.

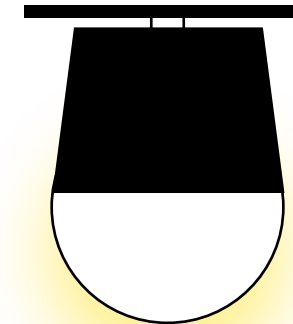


P2000 Claw Mount
For quick and simple attachment to P2000 trunking.

IP65



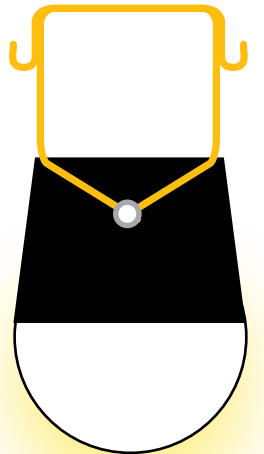
Ceiling Mount
A simple system to mount your new fittings directly to most ceilings



Floating Mount
A mount for areas where a ceiling mount isn't possible.



Suspended Mount
For hanging the fitting at your desired height.



P2000 Claw Mount
For quick and simple attachment to P2000 trunking.

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- 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 LEDrail 4100 is covered up to a 7 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 Ta 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 LEDrail 4100 range.



Indoor.



1/2kV surge protection.



Sustainably Recyclable.



Acrylic Lens.



Serviceable: All units are serviceable and all parts replaceable.



Colour temperature 3000, 4000, 5600 & 6500K.



Colour rendition index 80+.



Top Bin Chips <3 MacAdam Ellipses.



Modular.



Earth connection and CLASS I insulation fixture.



P2000 Trunking compatible.



Ceiling / floating mount.



Suspended by chain or steel cable. (not included).



Serviceable: All units are serviceable and all parts replaceable.

Extras

Optional Extras.



Casambi Bluetooth technology.



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



Excellent Luminous Efficacy (Lm/W).



Driver upgrade to 4kV.



10kV replaceable surge protection.



IES files available.



LEDrail 4100 IP65.



VOLTpro.



Different colour options.



5 year warranty:
7 year warranty available T&Cs apply.
Please visit www.energywise.co.za

Bricklight

Now you see me, now you don't.

Bricklight camouflages itself with the brick texture by taking on the form and the dimensions of the surrounding masonry. Brick lights are the ideal solution for illuminating steps or corridors or verandas in a non-obtrusive way.



SPEC SHEET Bricklight

Effective Lumen:

1300 lm

2900 lm

240V:
Efficacy:

12W
120 lm/w

20W
131 lm/w

Max Ta:
L&B:

35°C
L90 B10
50000Hrs

35°C
L90 B10
50000Hrs



Fully Serviceable



Colour Temp:
5600K
CR>80 R9>13



Fully Recyclable



Diffuser:
Acrylic



Earth Connection:
Class 1 insulation



Different Colour Options

KEY FEATURES

• 2 Size Options

Bricklight 300mm & 600mm

• Diffuser

PMMA frosted and Polycarbonate lens options available.

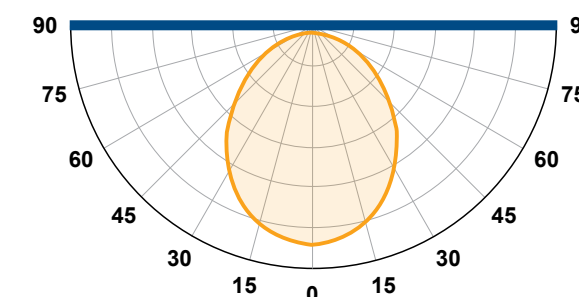
• Housing

Full metal housing, with a choice of colours for front cover to match your wall.



Front cover can be coloured to match your wall

Bricklight Distribution





Retrofit



RetroFit 44

There's good as new, and then there's better

Our LED retrofit kit for the industry such as the MAG 44 or B40 Bulkhead, featuring an integrated heat sink that allows you to retain your existing cabling and body whilst upgrading to LED technology. It comes standard with L80 B10 and up to 70 000hrs lifespan as well as an impressive CR80+.



Now available for flat glass bulkheads

RetroFit

SPEC SHEET RetroFit 44

	201	301	101
Effective Lumen:	2366 lm	3444 lm	5699 lm
240V:	22W	32W	48W
Efficacy:	107 lm/w	116 lm/w	118 lm/w
Max Ta:	30°C	30°C	30°C
L&B:	L80/90 B10 70 000Hrs	L80/90 B10 70 000Hrs	L80/90 B10 70 000Hrs



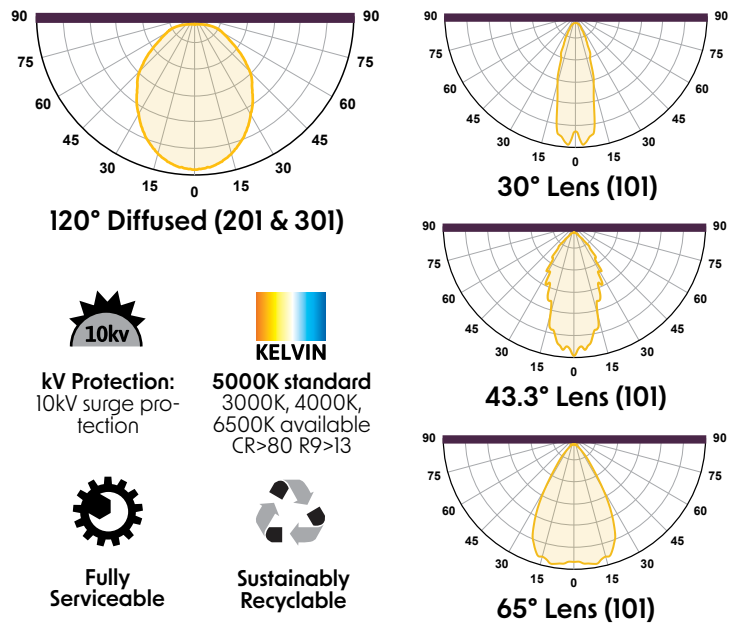
***5 year warranty:**
When installed by authorised electrician. Please visit www.energywise.co.za

KEY FEATURES

Available in three different lamp lumens/wattage/light distributions packages

- Each option has been designed and tested to ensure reliable performance at ambient temperatures up to 40°C
- High residual lumen (L&B factor) over the life-cycle of the luminaire
- High quality LED & Driver - compliant to international safety standards/specifications
- 10kV surge protection with electrical interruption.

LED Options



RetroFit 22

Turning old tech inside out

Our LED retrofit kit for the industry MAG 22 Bulkhead features an integrated external heat sink that allows you to retain your existing cabling and body and reach a higher output than competing LED retrofit options. It comes standard with L80 B10 and up to 70 000hrs lifespan as well as an impressive CR80+.

SPEC SHEET RetroFit 22

	101	102	103
Effective Lumen:	9500 lm	15 434 lm	19 464 lm
240V:	79W	112W	142W
Efficacy:	120 lm/w	135 lm/w	136 lm/w
Max Ta:	30°C	30°C	30°C
L&B:	L90 B10 50 000Hrs	L90 B10 60 000Hrs	L90 B10 65 000Hrs

Size **379 x 379 x 500mm**



Fully Serviceable



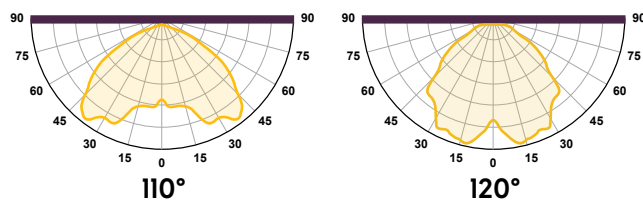
5000K standard
3000K, 4000K, 6500K available
CR>80 R9>13



IP Rating: Indoor

This Retrofit fits into the common round glass industrial bulkheads well known within the industrial community.

Mars 22 Distribution Options



KEY FEATURES

- **3 lumen Options**
RetroFit 101, 102, 103

Each option has been designed and tested to ensure reliable performance at ambient temperatures up to 35°C. Utilising a patented (Patent no. 2015/03083) heat sink design which exhausts heat outside of the fitting whilst maintaining the IP rating of the bulkhead.



RetroFit



EX Range



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 55°C ambient.

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



INTRODUCING

EX

IP 65



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.

KEY FEATURES

MODULAR

- With extra Lumen Packages up to 120 000lm.

LENSES

- 4 different optics for countless optic combinations

3 SIZE OPTIONS

- EX Bay 102
- EX Bay 103
- EX Bay 104

OPTICS

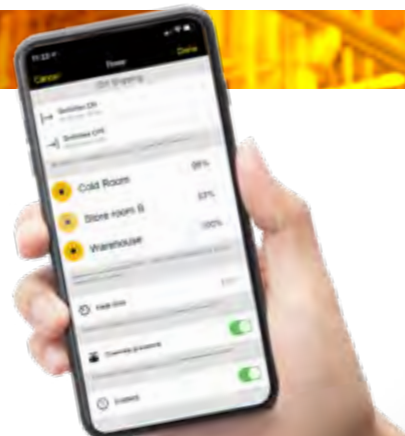
- Impact rating IK08/5J

TEMPERATURE

- Ambient room temperature -25°C to +40°C. (Up to +55°C on request)

MOUNTING OPTIONS

- P2000 Trunking
- Pendant



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



5 year warranty:
*T&Cs apply



Fully Serviceable



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



Indoor



Impact Resistance:
IK08/J



Construction & Fasteners:
Aluminum & SS316



Modular:
Expandable system



Optional:
Bluetooth, Wifi, Dali & Bi Level

Specifications

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



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



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



IP 65
Indoor



IK08/5J
Impact
Resistance:
IK08/5J



PC
LED Lenses:
Polycarbonate



Al
Construction:
Aluminum &
Stainless Steel

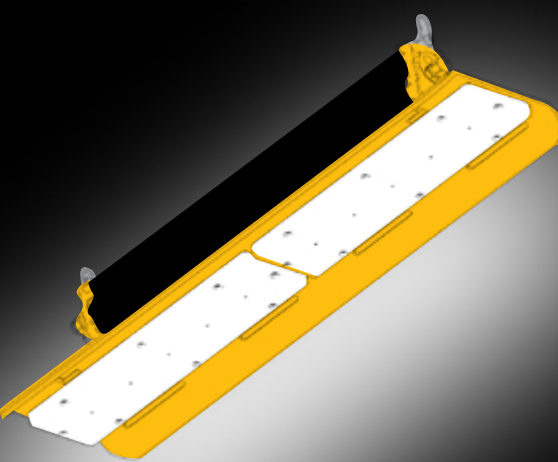


Modular:
Expandable
system

EX BayXP 102

Effective Lumen:	8258 lm	12936 lm l	5196 lm
240V:	59W	92W	126W
Power Factor:	0.96	0.96	0.96
Effective Efficacy:	150 lm/w	141 lm/w	121 lm/w
Max ambient:	55°C	45°C	40°C
L&B:	L80 B10 55°C 60K hrs	L80 B20 45°C 60K hrs	L80 B50 40°C 60K hrs

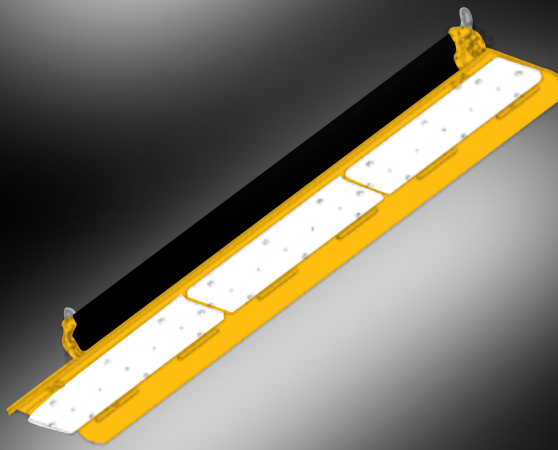
Fitting Size LxBxH: **700 x 175 x 145 mm**



EX BayXP 103

Effective Lumen:	12387 lm	19404 lm	22794 lm
240V:	89W	138W	188W
Power Factor:	0.97	0.97	0.97
Effective Efficacy:	150 lm/w	141 lm/w	121 lm/w
Max ambient:	55°C	45°C	40°C
L&B:	L80 B10 55°C 60K hrs	L80 B20 45°C 60K hrs	L80 B50 40°C 60K hrs

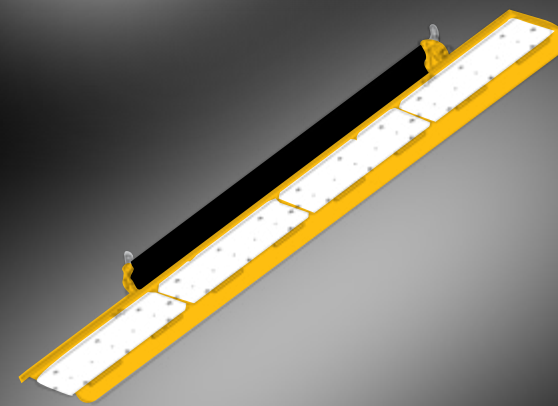
Fitting Size LxBxH: **1150 x 175 x 145 mm**



EX BayXP 104

Effective Lumen:	16516 lm	25872 lm	30392 lm
240V:	118W	184W	251W
Power Factor:	0.98	0.98	0.98
Effective Efficacy:	150 lm/w	141 lm/w	121 lm/w
Max ambient:	55°C	45°C	40°C
L&B:	L80 B10 55°C 60K hrs	L80 B20 45°C 60K hrs	L80 B60 40°C 60K hrs

Fitting Size LxBxH: **1350 x 175 x 145 mm**

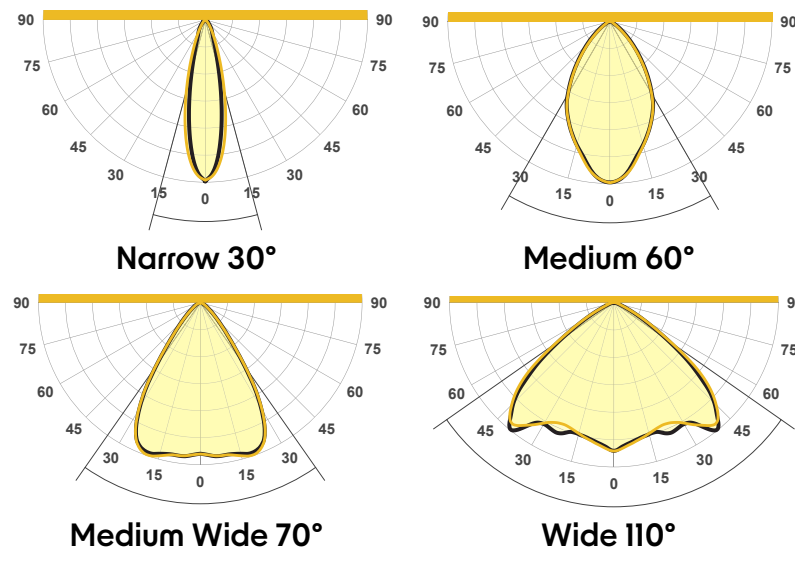


Distribution Options

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.



A Closer Look

Engineered to the highest standards.



- Heat-sink**
Aluminum heat-sink engineered to keep the LEDs comfortable up to an ambient of 40°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.



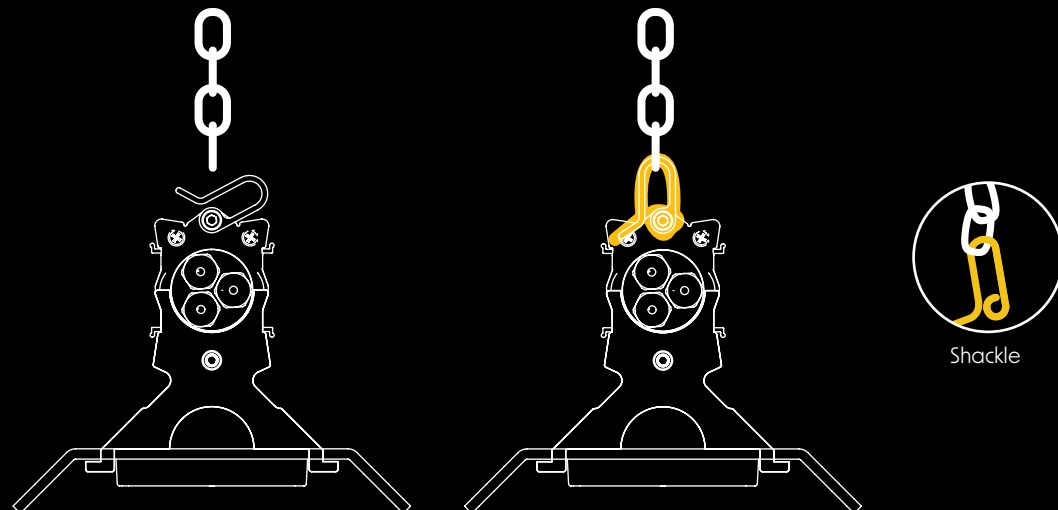
Installation

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.

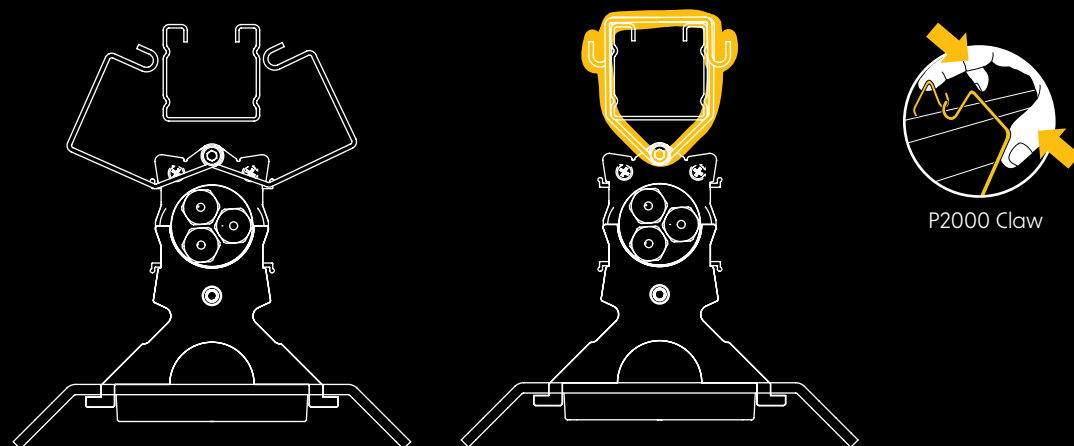
Suspension - Mini Shackle (Standard)

Quick snap-on hook attachment, no tools required.



Claw - On request

Claw included on request, hooks directly onto P2000 Channel.



Disclaimer:

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 warm up:

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 Ta 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 EX Bay range.

- IP 65** Indoor.
- Recycling symbol** Sustainably Recyclable.
- PC** Polycarbonate Lens.
- Gear icon** Serviceable: All units are serviceable and all parts replaceable.
- KELVIN** 5000K Standard, 3000K, 4000K, 6500K on request.
- CRI** Colour rendition index 80+.
- L&B** World class ED Life rating.
- Modular icon** Modular.
- Earth symbol** Earth connection and CLASS I insulation fixture.
- IK08/5J** Optic impact rating IK08/5J.
- 4kv** Voltage surge protection up to 4Kv.
- AL stainless 316** All screws & mini shackles in stainless steel 316.
- J hook** Suspended by chain or steel cable. (not included).



5 year warranty:
Please visit
www.energywise.co.za

Extras

Optional Extras.

- Bluetooth icon** Casambi Bluetooth technology.
Bluetooth
- DALI icon** All units can be fitted with Dali or bi-level driver.
- LUMEN WATT** Excellent Luminous Efficacy (Lm/W)
- 10kv** Voltage surge protection. Up to 10kv.
- .IES** IES files available.
- P2000 Trunking mount icon** P2000 Trunking mount.
- VOLTpro icon** VOLTpro.

EX Dustproof

ZONE
21/22

Explosion, water, vapour & dust proof.

Our IP66 LED dustproof is composed of a UV stabilized polycarbonate body which gives excellent protection from long-term degradation from sunlight as well as an IK08/5J diffuser impact rating.

Ex tb IIIC T85°C Db IP65
MASC 5/20-2130X



PREMIUM

STANDARD



Fully
Serviceable



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



Indoor



Diffuser:
IK08/5J



Construction &
Fasteners:
Aluminum &
SS304



5 year
warranty:
*T&Cs apply



INTRODUCING

EX
IP
65



A stout EX luminaire that is fully serviceable and rated for zone 21 and 22 applications.

Our EX Dustproof comes with an ambient temperature rating of up to 35 degrees. We have two variants of this luminaire, whilst the econo ticks all the zone 21 and 22 applications the premium adds a vandal resistant shroud and more elegant aesthetic

We then manufactured these fittings utilizing EX technology sourced from the leading component manufacturers in Europe. These luminaries 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.

KEY FEATURES

3 SIZE OPTIONS

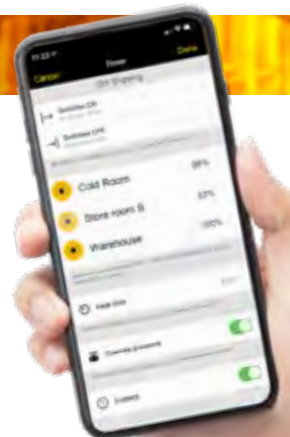
- EX Dustproof 2 Foot
- EX Dustproof 4 Foot
- EX Dustproof 5 Foot

DIFFUSER

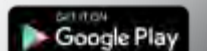
- Impact rating IK08/5J

TEMPERATURE

- Ambient room temperature -25°C to ≤35°C.



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



Specifications

Specped for **every** situation. All our EX BayXP fittings are zone 21 & 22 certified:
Ex tb IIIC T85°C Db IP65 - MASC S/20-2130X



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



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



IP 65
Indoor/Outdoor



IK08/5J
Impact
Resistance:
IK08/5J



PC
Diffuser:
Polycarbonate



Al
Construction:
Aluminum &
Stainless Steel

EX Dustproof

	2 Foot	4 Foot	5 Foot
Raw Lumen:	2913 lm	3964 lm	5480 lm 7660 lm
Effective Lumen:	2700 lm	3675 lm	5080 lm 6870 lm
240V:	20W	29W	38W 52W
Power Factor:	0.95	0.95	0.93 0.98
Raw Efficacy:	142 lm/w	139 lm/w	144 lm/w 142 lm/w
Effective Efficacy:	134 lm/w	128 lm/w	134 lm/w 127 lm/w
L90 B10 @ 25°:	>54000Hrs	>54000Hrs	>54000Hrs
L80 B10 @ 35°:	>50000 Hrs	>50000 Hrs	>50000 Hrs
Fitting Length:	620mm	1250mm	1540mm



energywise

chemical agents

Resistance KEY:		
✓	Resistant	
⊕	Relatively Resistant	
⊖	Non-resistant	

Chemical agent	Polycarbonate	Aluminum
Acetic acid 10%	✓	✓
Acetone	⊖	✓
Alcoholic beverages	✓	✓
Aluminum sulphate	✓	✓
Ammonia 5%	⊖	✓
Aniline	⊖	✓
Arsenic acid 20%	✓	✓
Benzene	⊖	⊖
Benzyl alcohol	⊖	⊖
Benzyl	⊖	✓
Bromine	⊖	⊖
Calcium Chloride	✓	✓
Calcium nitrate	✓	✓
Carbon tetrachloride	⊖	✓
Carbonic acid	⊖	✓
Caustic potash	⊖	✓
Cement	✓	✓
Chlorhydric acid 1-5%	✓	⊖
Chlorine liquids (vapours)	⊖	⊖
Chloroform	⊖	✓
Chromic acid	⊖	⊖
Citric acid 20%	✓	✓
Copper sulphate	✓	✓
Diesel-naphtha oil	⊖	⊖
Ethyl alcohol	✓	✓
Ethyl chloride	✓	⊖
Ethyl ether	⊖	✓
Food oils and fats	⊖	✓
Formic acid 10%	✓	⊖
Glycerine	✓	✓
Hexane	✓	✓
Iodine	⊖	⊖
Iron chloride	✓	⊖
Isopropyl alcohol	⊖	✓
Lubricating oil	✓	✓
Magnesium sulphate	✓	✓
Methanol	⊖	✓
Mineral oils	✓	✓
Nitric acid 20%	⊖	⊖
Oxygen	✓	✓
Ozone	✓	✓
Perchloric acid 10%	✓	⊖
Petrol	⊖	✓
Phenol	⊖	✓
Potassium bromide	✓	⊖
Potassium nitrate	✓	✓
Potassium permanganate	✓	✓
Sea climate	✓	⊖
Silicon oils	✓	✓
Soda bleach 15%	⊖	⊖
Sodium chloride	✓	⊖
Sodium hydroxide 5%	✓	⊖
Sodium sulphate	✓	✓
Sugar	✓	✓
Sulphur	✓	✓
Sulphuric acid 30%	✓	⊖
Toluene	⊖	✓
Trichloroethylene	⊖	✓
Zinc sulphate	✓	⊖

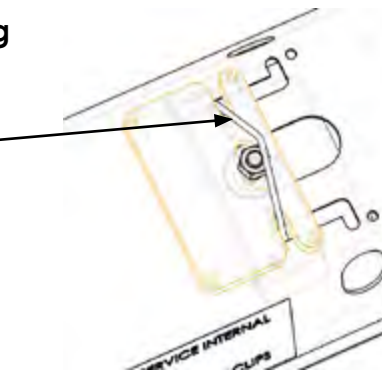
Installation

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

The EX Dustproof can either be installed as pendant or surface mounted.

Suspension Mounting

Spring Quick snap-on triangular attachment, no tools required.



Surface - Simple, quick surface installation (installation instructions provided in box)

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.

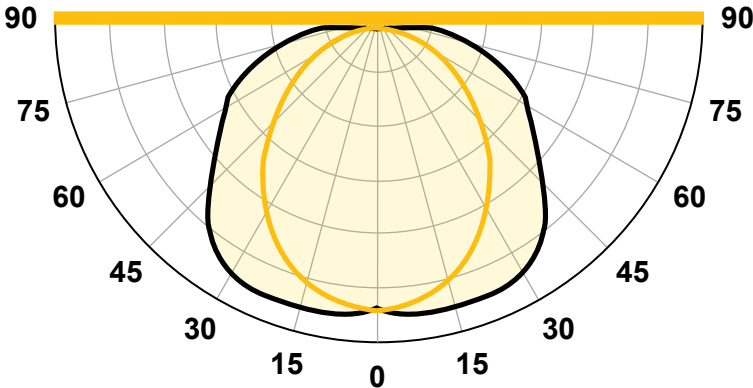
Distribution Options

The light you need, where you want it.

LED Dustproofs protect your LEDs, and offer light onto a specific area, surface, or object. Floodlighting is a basic element of both interior and exterior lighting. These outdoor/ indoor luminaries are not meant to only project a wide spread of light.

Dustproofs are ideal for lighting up passages, walkways and car parks, with a soft feel but effective lighting solution. This premium dustproof body is sourced from leading manufacturers in Europe.

Dustproof Distribution

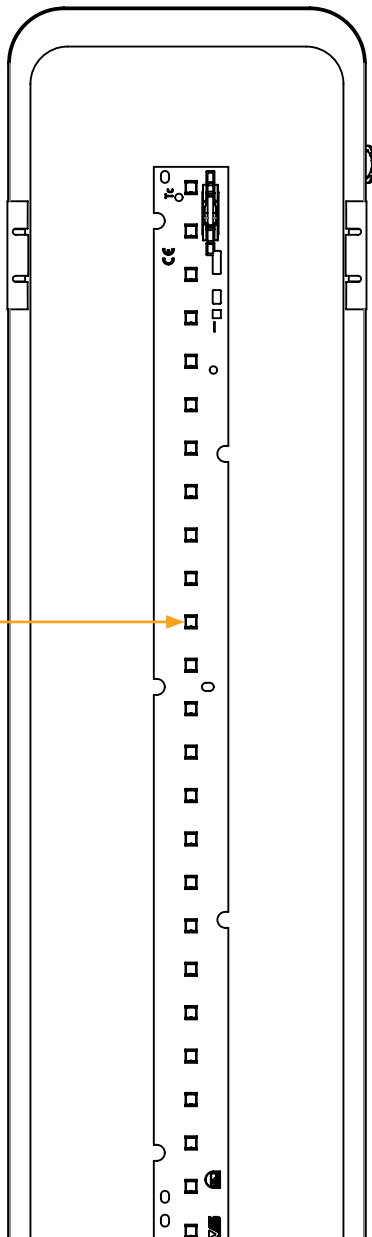


A Closer Look

Engineered to the highest standards.



- Shroud**
Aluminum shroud adds a premium element to the tamper protection whilst our Econo version is still able to maintain a zone 21/22 certification.
- Diffuser**
Polycarbonate diffuser offers great IK08 impact protection and efficient distribution of light. The continuous silicone gasket allows a water-resistant (IP66) assembly.
- LEDs**
Source from the best component manufactures in Europe to ensure maximum lifespan, quality and light spectrums.
- Finishings**
All fasteners are Stainless Steel 304 for longevity.



Features

Standard across the EX Dustproof range.



Indoor/Outdoor.



Sustainably Recyclable.



Polycarbonate Body.



Serviceable: All units are serviceable and all parts replaceable.



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



Colour rendition index 80+.



World class LED Life rating.



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)



Surface mount.



***5 year warranty:**
Please visit
www.energywise.co.za

Extras

Optional extras.



Casambi Bluetooth technology.



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



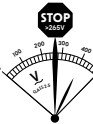
Voltage surge protection.
Up to 10kV.



IES files available.



Motion sensor.



VOLTpro.

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 Ta 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.



EX Pod

Zone
1/2 & 21/22

A standout luminaire with IP68 level protection & impressive operating temperature range.

This IP68 fitting is designed for durability in harsh environments and available for Zone 1/2 as well as Zone 21/22.



5 year warranty:
*T&Cs apply



kV Protection:
4kV, 10kV on
request



Indoor /
Outdoor



Impact
Resistance:
IK08/5J



Modular



Plug & Play

INTRODUCING

EX
IP
68



This IP68 fitting is designed for durability in harsh environments and available for Zone 1/2 as well as Zone 21/22.

Our EX Pod is the perfect combination of durability and output. Housed inside an impact resistant polycarbonate tube and available for Zone 21 and 22 locations which are hazardous because of the presence of combustible dust and fibers and Zone 1 or 2 which are hazardous due to the presence of combustible liquids or gases.

Our EX fittings are manufactured using approved EX technology sourced from the leading component manufacturers in Europe. We then put the new luminaires through months of testing to ensure that the final product could deliver against our exacting specifications.

The final result, an EX light several years in the making, yet on the very tip of the latest technological advancements in LED EX light technology, available today.

KEY FEATURES

MODULAR

- With extra Lumen Packages up to 21000 lm.

4 SIZE OPTIONS

- EX Pod 1350mm
- EX Pod 1630mm
- EX Pod 1910mm
- EX Pod 2190mm

CASING

- Impact rating IK08/5J

TEMPERATURE

- Ambient room temperature -25°C to +40°C.

Specifications

Select the perfect one for the job



kV Protection:
4kV, 10kV on request



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



Indoor / Outdoor



Impact Resistance:
IK08/5J



Casing Diffuser:
Polycarbonate



Modular:
Expandable system

EX POD 1

Effective Lumen:	2052 lm	2364 lm
240V:	18W	21W
Power Factor:	0.95	0.95
Effective Efficacy:	117 lm/w	111 lm/w
Max Ta:	40°C	40°C
L&B:	L90 B10 L80 B10	L80 B10

Fitting Size LxW: **1350mm x 50mm**

EX POD 2

Effective Lumen:	4104 lm	4728 lm
240V:	35W	43W
Power Factor:	0.95	0.95
Effective Efficacy:	117 lm/w	111 lm/w
Max Ta:	40°C	40°C
L&B:	L90 B10 L80 B10	L80 B10

Fitting Size LxW: **1630mm x 50mm**

EX POD 3

Effective Lumen:	5130 lm	5910 lm
240V:	44W	53W
Power Factor:	0.95	0.95
Effective Efficacy:	117 lm/w	111 lm/w
Max Ta:	40°C	40°C
L&B:	L90 B10 L80 B10	L80 B10

Fitting Size LxW: **1910mm x 50mm**

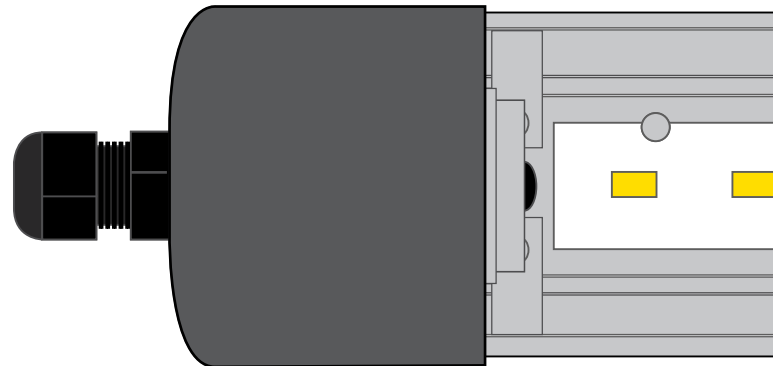
EX POD 4

Effective Lumen:	6156 lm	7092 lm
240V:	53W	64W
Power Factor:	0.95	0.95
Effective Efficacy:	117 lm/w	111 lm/w
Max Ta:	40°C	40°C
L&B:	L90 B10 L80 B10	L80 B10

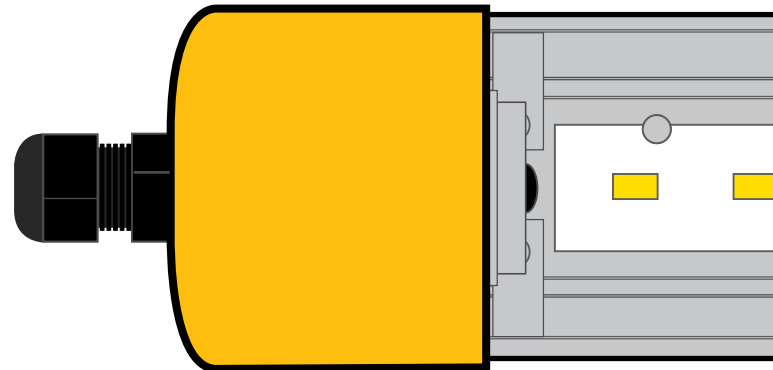
Fitting Size LxW: **2190mm x 50mm**

IP65*

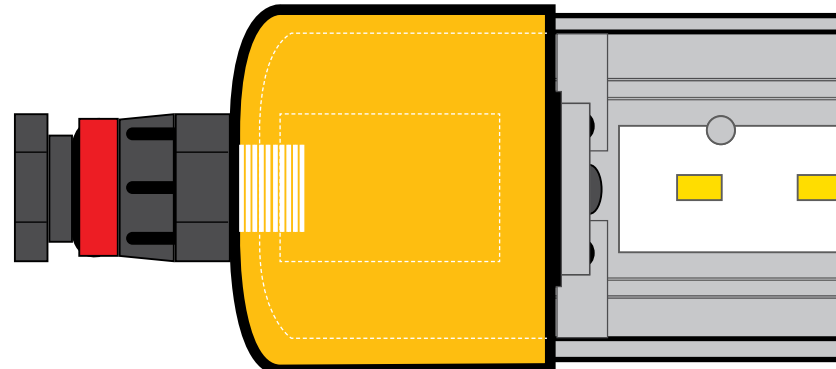
*Also available as a standard IP65 fitting.



Zone 21/22



Zone 1/2

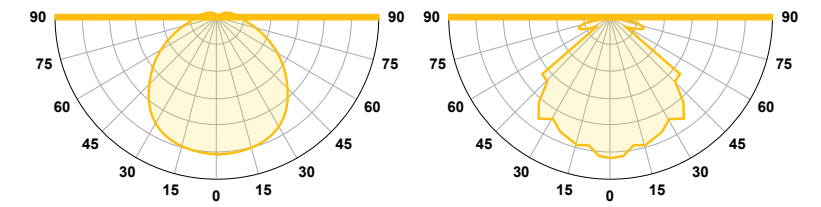


Distribution Options

The light you need, where you want it.

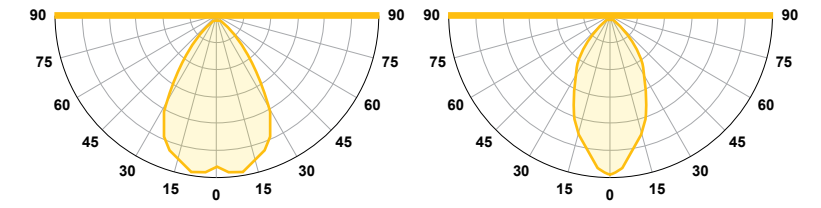
EX Pods protect your LEDs, and offer light onto a specific area, surface, or object. Floodlighting is a basic element of both interior and exterior lighting. These indoor luminaires are not only able to project a wide spread of light, with the use of lenses we can also provide task lighting.

Task (focused) lighting provides increased light for specific tasks in a room that may already have some ambient light. Task lighting is especially useful for seeing small objects or objects of low contrast. We can offer solutions to combine several pods to get the exact lighting you require.



Wide (Frosted)

Wide



Medium

Narrow

A Closer Look

Engineered to the highest standards.

Housing

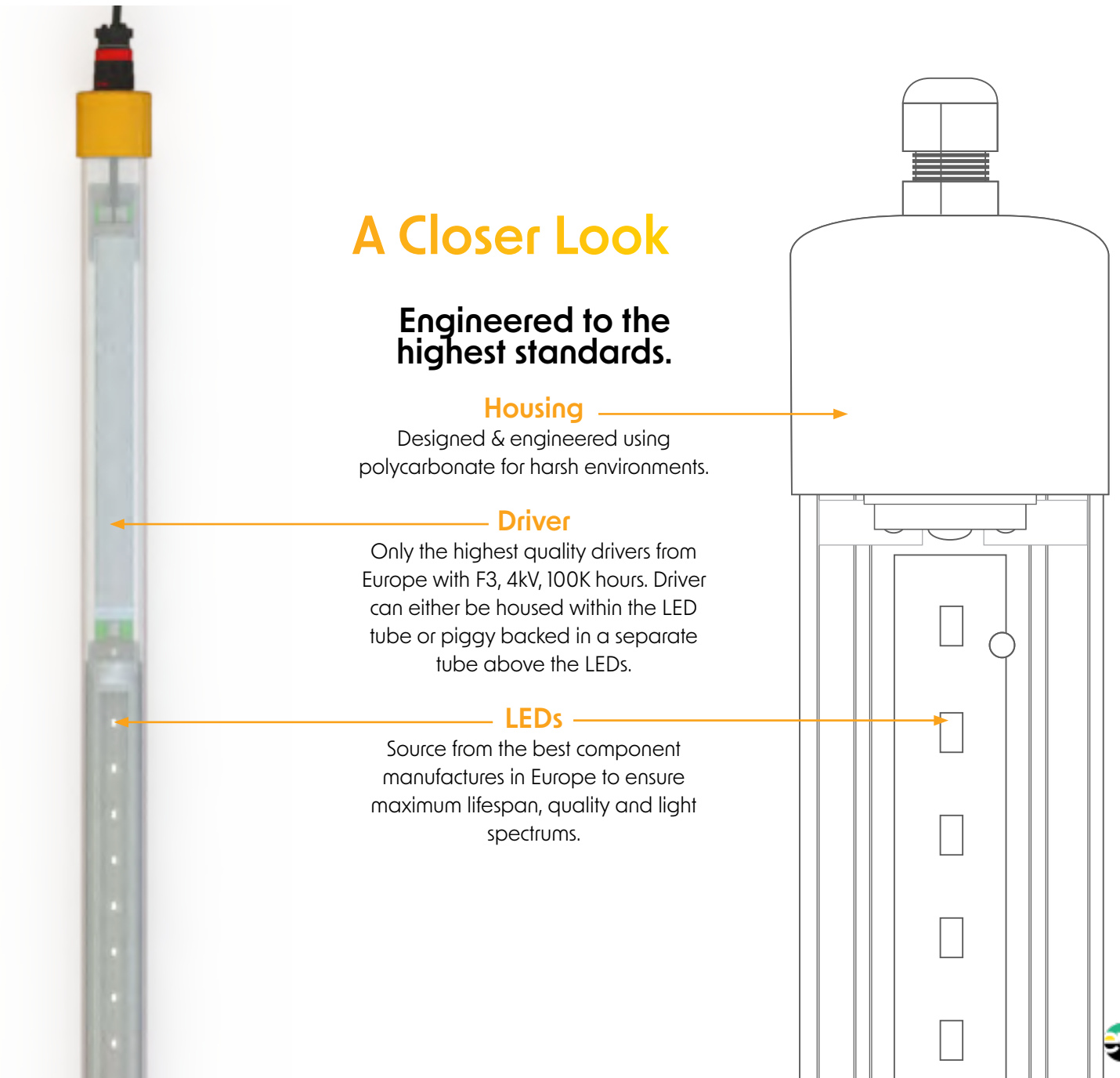
Designed & engineered using polycarbonate for harsh environments.

Driver

Only the highest quality drivers from Europe with F3, 4kV, 100K hours. Driver can either be housed within the LED tube or piggy backed in a separate tube above the LEDs.

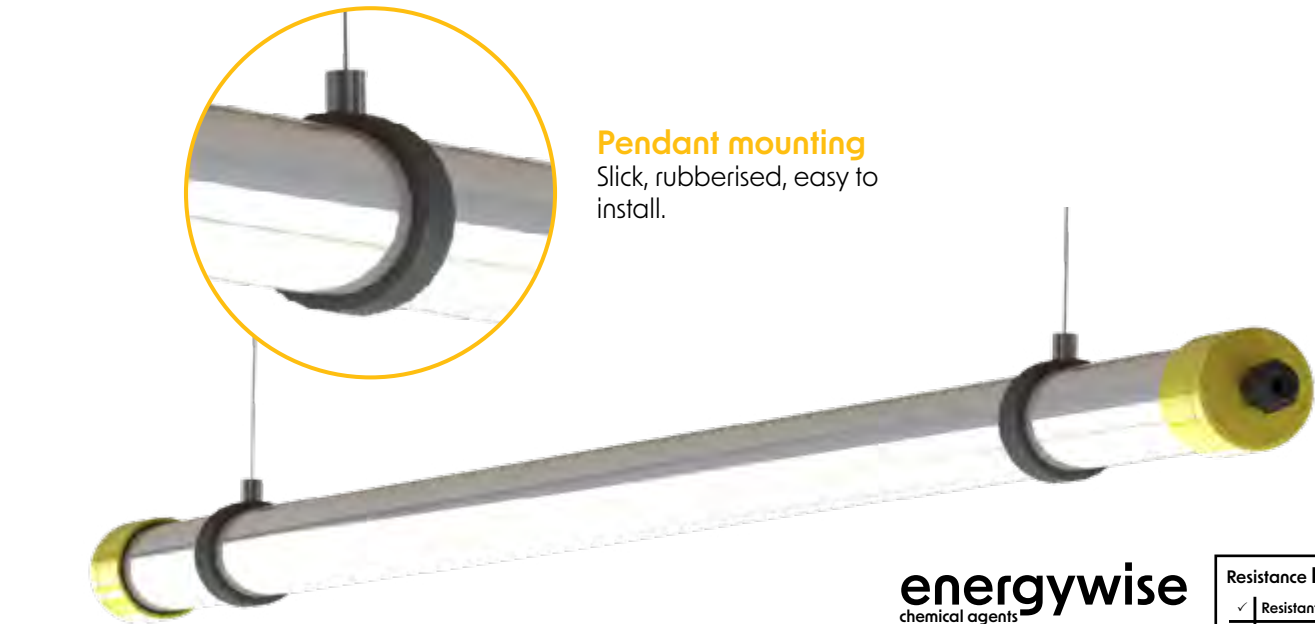
LEDs

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



Installation & Configurations

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



Pendant mounting
Slick, rubberised, easy to install.



Banking / Stacking - For increased lumen output.



Remote Driver / Control Gear - Piggy back configuration for uninterrupted light.

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.

energywise chemical agents		
Resistance KEY:		
✓ Resistant		
⊖ Relatively Resistant		
⊘ Non-resistant		
Chemical agent	Polycarbonate	Aluminum
Acetic acid 10%	✓	✓
Acetone	⊘	✓
Alcoholic beverages	✓	✓
Aluminum sulphate	✓	✓
Ammonia 5%	⊘	✓
Aniline	⊘	✓
Arsenic acid 20%	✓	✓
Benzene	⊘	✓
Benzyl alcohol	⊘	⊘
Benzyl	⊘	✓
Bromine	⊘	⊘
Calcium Chloride	✓	✓
Calcium nitrate	✓	✓
Carbon tetrachloride	⊘	✓
Carbonic acid	⊘	✓
Caustic potash	⊘	⊘
Cement	✓	✓
Chlorhydric acid 1-5%	✓	⊘
Chlorine liquids (vapours)	⊘	⊘
Chloroform	⊘	✓
Chromic acid	⊘	⊘
Citric acid 20%	✓	✓
Copper sulphate	✓	⊘
Diesel-naphtha oil	⊘	✓
Ethyl alcohol	✓	✓
Ethyl chloride	⊘	⊘
Ethyl ether	⊘	✓
Food oils and fats	⊘	✓
Formic acid 10%	✓	⊘
Glycerine	✓	✓
Hexane	✓	✓
Iodine	⊘	⊘
Iron chloride	✓	⊘
Isopropyl alcohol	⊘	✓
Lubricating oil	✓	✓
Magnesium sulphate	✓	✓
Methanol	⊘	✓
Mineral oils	✓	✓
Nitric acid 20%	⊘	⊘
Oxygen	✓	✓
Ozone	✓	✓
Perchloric acid 10%	✓	⊘
Petrol	⊘	✓
Phenol	⊘	✓
Potassium bromide	✓	⊘
Potassium nitrate	✓	✓
Potassium permanganate	✓	✓
Sea climate	✓	⊘
Silicon oils	✓	✓
Soda bleach 15%	⊘	⊘
Sodium chloride	✓	⊘
Sodium hydroxide 5%	⊘	⊘
Sodium sulphate	✓	✓
Sugar	✓	✓
Sulphur	✓	✓
Sulphuric acid 30%	✓	⊘
Toluene	⊘	✓
Trichloroethylene	⊘	✓
Zinc sulphate	✓	⊘

Features

Standard across the EX Pod range.

IP 68 Indoor / Outdoor

PC Polycarbonate encapsulation.

KELVIN Colour temperature 5600K

CRI Colour rendition index 80+

L&B World class LED Life rating

Earth connection and CLASS I insulation fixture.

IK08/5J Optic impact rating IK08/5J.

4kv Voltage surge protection up to 4 kV.

Suspended/pendent mount.

Plug & Play

Modular

5 year warranty:
Please visit www.energywise.co.za

Extras

Optional Extras

LUMEN WATT Excellent luminous Efficacy (Lm/W)

IES IES files available.

VOLTpro

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 Ta 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.



EX Torch

ZONE 21/22

Who says tough can't be pretty?

Our industrial LED bulkhead is composed of high-pressure LM6 Marine grade cast aluminum body and clear polycarbonate cover all wrapped up with an IP65 rating and able to withstand temperatures of 40°C ambient. Available in 4 different light distributions and standard with a replaceable 10kV surge protection this luminaire is rated for zone 21 and zone 22.



5 year warranty:
*T&Cs apply

Fully Serviceable

10kv
kV Protection:
Up to 10kV
Standard

IP 65
Outdoor
/Indoor

IK08/5J
Front Cover:
IK08/5J

Al
Construction &
Fasteners:
Aluminum &
SS316

LM6 Marine Grade Cast Aluminum

INTRODUCING

EX
IP 65



Marine grade high-pressure die cast aluminum body and clear polycarbonate cover wrapped up with an IP65 rating.

Our EX TORCH range is based off of the same chassis of our industrial Torch Bulkhead. 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. 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 at the leading edge of technological advancements in LED EX lighting technology.

KEY FEATURES

LENSES

- 4 different optics.

FRONT COVER

- Impact rating IK08/5J

TEMPERATURE

- Ambient room temperature -25°C to +40°C.

MOUNTING OPTIONS

- Surface mounting brackets
- Pole mount
- Pole mount with swivel

Specifications

The perfect configuration for its job.



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



Indoor/Outdoor



Impact Resistance:
IK08/5J



Lenses:
Polycarbonate



Construction:
Aluminum &
Stainless Steel



**Marine Grade
Aluminum**

EX TORCH

Effective Lumen up to:

8560 lm

240V:

67W

Power Factor:

0.95

Effective Efficacy:

128 lm/w

Max Ta:

40°C

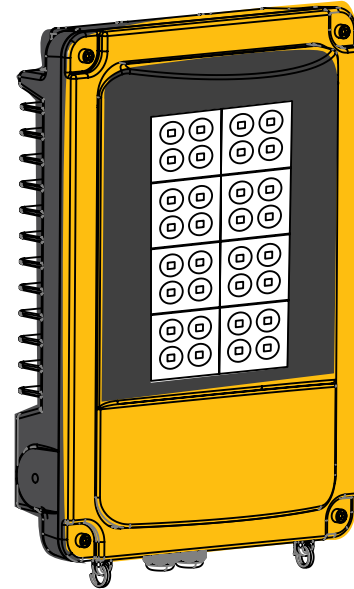
L&B:

L80 B10

40°C 60K hrs

Fitting Size LxBxH:

**400mm x 280mm
x 115mm**



Installation

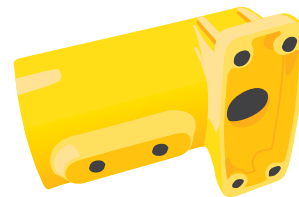
Easy to install, **Saving** you time & money

The EX Torch is a purpose designed LED bulkhead built for an industrial environment where dust is a potential hazard. Four easily attached mounting feet as standard. Alternatively a wall bracket is optional

**Mount - Surface
mounting brackets**
Solid, no fuss brackets.



**Mount - Pole
mounting brackets.**
Swivel bracket or pole
spigot on request.



Disclaimer:

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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.

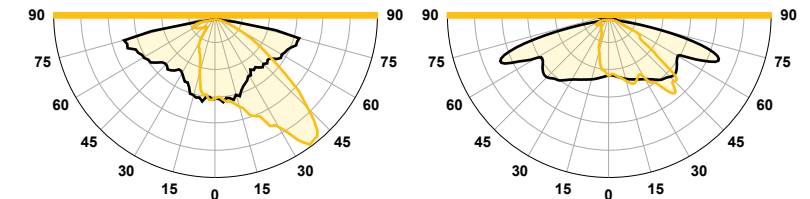
The true nature of any upgrade is always to provide a better product, therefore, there will be no recourse for any complaints or claims of any nature regarding changes to specs. We are ISO 9001-2015 compliant and our assembly line follows IEC 60958 guidelines – our products are covered by a Product Liability Policy. Our LED products are covered by a 5 year warranty* *T&C's apply, please check with Head Office for further details.

Distribution Options

The light you need, where you want it.

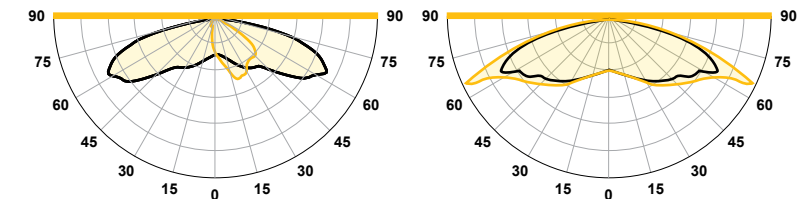
The development of high-quality optical lenses has changed the lighting game. Gone are the days of naked bulbs throwing out in a wide light spray covering everything from the ceiling above to the walls no one needs to see. With today's advancements in lens efficiency, we are able to put the light where you need it most providing you lux levels on both vertical and horizontal planes.

In so doing we can provide solutions for car parks or walkways or throwing wide beams across open spaces.



M5

M3M



P2M

A5

A Closer Look

Engineered to the highest standards.

Heat-sink

This industrial bulkhead is specifically designed for LEDs, it has an external heat sink allowing for effective heat dissipation outside of the fitting.

Cover

Polycarbonate cover offers great IK08 impact protection. The continuous rubber gasket allows for a water-resistant (IP65) assembly.

Lenses

For your choice of distribution options.

LEDs

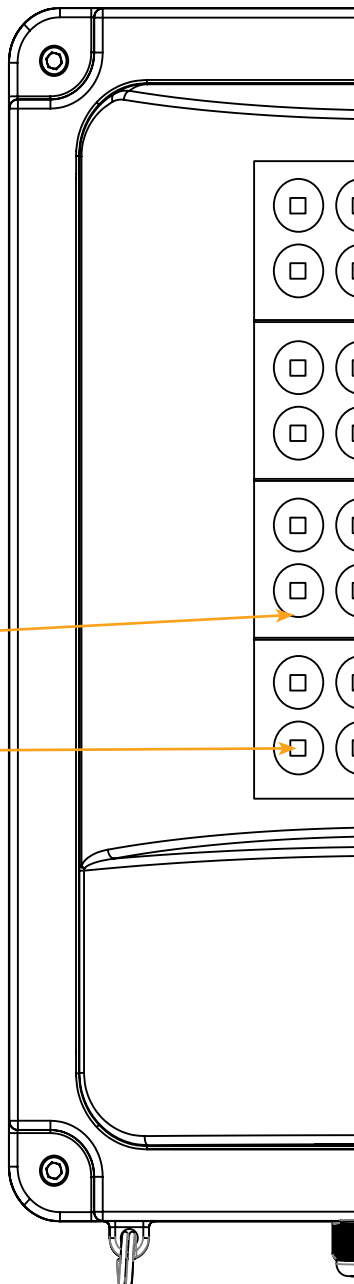
Sourced from the best component manufacturers in Europe to ensure maximum lifespan, quality and light spectrums.

Surge Protection

Fitting comes standard with a replaceable 10kV surge protection

Finishings

All fasteners are Stainless Steel 316 rust free longevity.



Features

Standard across the EX Torch range.



Water resistant.



Sustainably Recyclable aluminum.



Polycarbonate lens and front cover.



Serviceable: All units are serviceable and all parts replaceable.



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



Colour rendition index 75+, 80+ on request



Top Bin Chips <3 MacAdam Ellipses



Earth connection and CLASS I insulation fixture.



Front cover impact rating IK08/5J.



Replaceable voltage surge protection 10kV.



Aluminum alloy with stainless steel 316 fasteners.



Surface mount.



LM6 Marine Grade Cast Aluminum

Extras

Optional extras



IES files available.



VOLTpro

Effective lumen output after warm up:

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.

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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.

5 year warranty:
Please visit
www.energywise.co.za





Horticulture



EARTHbay & EARTHplate

A light spectrum for every stage of every plant.



Based on the chassis of our industry leading High Bay and packed with the latest in horticultural technology our EARTHbay and EARTHplate grow lights offer you the ability to create bespoke solutions to your growing environment whilst maintaining a rugged and durable design.



EARTHTM
HORTICULTURAL LIGHTING SYSTEM

A LIGHT SPECTRUM
FOR EVERY STAGE, OF
EVERY PLANT

Earth

IP
65



Horticultural LED Lighting

The EARTHbay & EARTHplate

BluetoothTM Wi-Fi

Combine the EARTH range's ability to adapt to your environment with either BluetoothTM or Wi-Fi receiver systems for all your timing & dimming requirements. Add a daylight harvesting sensor to your facility and now you can control how much or little power you use when allowing in sunlight & control all of this from your phone.

A system you can install this season, that will allow you to expand your operation next season

KEY FEATURES

- **12 Distinct spectrums**
For bespoke solutions
- **Scalable μmol intensity**
Delivering the power you need
- **Focused power of lenses**
Keep your light where you need it most
- **Locally designed & produced**
Experts close at hand
- **Fully serviceable**
Saving you time & money
- **4 kV surge protection**
Increased protection
- **Water resistant (IP65)**
For easy watering

As a grower, you are likely chasing 3 key factors in regards to your horticultural lighting: high yield, fast growth and reliability.

Thankfully when you invest in an EARTHbay / EARTHplate system, not only are you investing in a state of the art grow light, but you're putting your trust into years of research and development into a range of tailored spectrums, a scientific understanding of lighting, a modular design that can grow with you and some truly rugged hardware that will tick all 3 of your critical factors.

We've designed our luminaries with a 5-year promise. A guarantee that means that they will deliver the μmol package in their 5th year what we sold you in their 1st. We've been able to achieve this feat by maximising the durability of our LED boards, sourcing the best drivers to power them, mitigating heat with smart design, retains integrity in wet conditions and despite an already impressive 4kV standard surge protection, provided you the option to upgrade to 10kV should you wish.



Fully Serviceable



Plug & Play:
Service without an electrician



Temperature:
-25°C to +35°C



IP Rating:
Water resistant



Construction:
Aluminum & Steel



Modular:
Expandable system



Optional:
Bluetooth, Wifi, Dali & Bi Level



The diagram illustrates two mounting options for the sign. On the left, a single sign is shown mounted 'END TO END' on a vertical post. On the right, three signs are shown mounted 'SIDE TO SIDE' on a vertical post, arranged in a 3x1 grid. Both options show the sign's mounting brackets and the post it is attached to.

The diagrams illustrate the progression of a fan-shaped area. The first diagram shows two segments. The second diagram shows three segments. The third diagram shows five segments. Each segment is a trapezoid with a shaded outer edge and a white inner edge, meeting at a common vertex at the bottom.

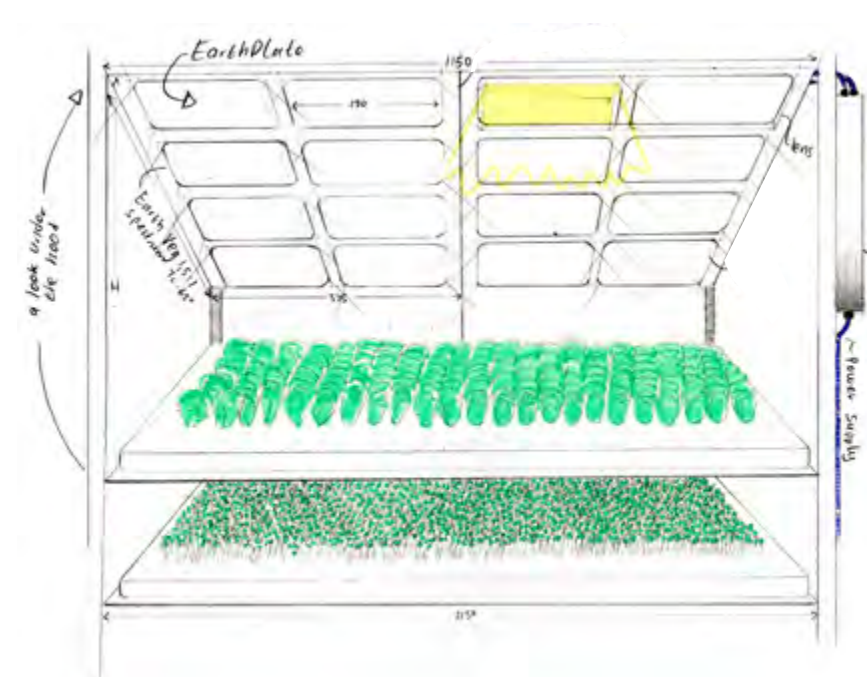


g
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what
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**No Lens
Scattered Energy**

**With a Lens
Focused Energy**



Shackle

A close-up photograph of a single, vibrant pink rose in full bloom, positioned in the lower center of the frame. The rose has multiple layers of petals, showing a rich magenta color. It is surrounded by lush green leaves and several unopened rose buds. The background is a blurred greenhouse interior, featuring a grid of lights that create a bokeh effect, suggesting a controlled environment for plant growth.

THE LUMINARIES

The EARTHbay has

the LED driver box attached to the back of the fitting for easy, out of the way storage allowing for compact linear runs of fittings

The EARTHplate design allows for the LED

plate and driver box to be separated. When slim-line LED plates are a must because of height restrictions, the EARTHplate XP is your perfect solution for high bay racking applications

Two variants, one light

The EARTHbay and EARTHplate have matching LED configurations & outputs.

Key difference

Whilst the EARTHbay has an attached driver box behind the fitting the EARTHplates driver is separated from the driver box (up to 2m).

Wattages

Maximum driver efficiencies and wattages between 300W and 330W respectively.

Dimmable (DALI)

Both come dimmable ready unless requested to be otherwise.

μmols capacity

Both EARTH configurations are designed to provide powerful μmols packages. However thanks to their modularity we can build the system up or strip it down. This allows us to provide you a fitting as powerful or restrained as you require.

Spectrums & lenses

Both the Plate & Bay offer the same phenomenal spectrums & lenses for you to select from.

AT A GLANCE:



Impact resistant lens (IK08)



4 different light distribution options (lenses)



Dimmable DALI standard, non dimmable on request



5 year warranty

*Please visit www.energywise.co.za



Standard 4 kV surge protection



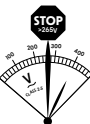
Upgrade 10kV surge protection available



Able to operate at +35°C ambient



Plug and play ability to service your fittings without an electrician



VOLTpro (Optional)



Sustainably Recyclable



Serviceable: All units are serviceable and all parts replaceable.

Our EARTHbay & EARTHplate range are 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 grow technology sourced from the leading horticultural component manufacturers in both Europe and Asia. We then put the new system through months of testing to ensure that the final product could deliver against our best intentions. The final result, a grow light several years in the making, yet on the very tip of the latest technological advancements in LED grow light technology available today.

A CLOSER LOOK

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. (*Higher temp on request).

Lenses

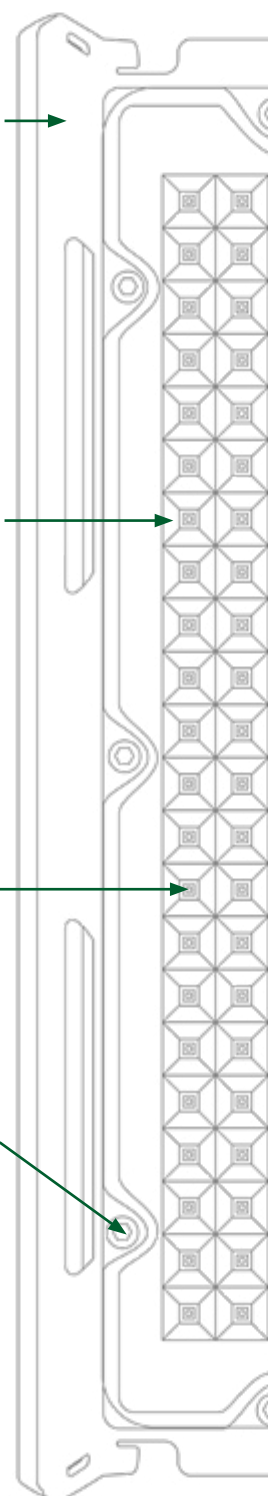
Polycarbonate lens offer great IK08 impact protection and efficient distribution control. The continuous silicone gasket allows a water-resistant (IP65) assembly.

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.



EARTHplate Neopharm Cape Town



EARTHplate SCA Holdings PMB



EARTHpod

Leading the way in propagation & racking luminaries.

With its gentle yet effective approach to clone and seedling growth, our propagation light utilizes advanced technology to promote faster growth while minimizing heat damage. Your little ones can thrive without the risk of bleaching or burning, making it a great fit for vegetative racking environments



EARTHTM
HORTICULTURAL LIGHTING SYSTEM

LEADING THE WAY IN
PROPAGATION LUMINARIES

Earth

IP
65



Horticultural LED Lighting

The EARTHpod



Combine the EARTH range's ability to adapt to your environment with either BluetoothTM or Wi-Fi receiver systems for all your timing & dimming requirements. Add a daylight harvesting sensor to your facility and now you can control how much or little power you use when allowing in sunlight & control all of this from your phone.

KEY FEATURES

- **2 Distinct spectrums**

To suit your seedlings

- **3 Distribution options**

Options to compliment your setup

- **Low heat system**

To prevent bleaching or burning

- **Inter foliage**

For maximum penetration between plants

- **Locally designed & produced**

Experts close at hand

- **Fully serviceable**

Saving you time & money

- **4 kV surge protection**

Increased protection

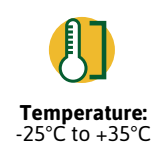
- **Water resistant (IP65)**

For easy watering

A lighting propagation system engineered for rapid & robust growth.

Designed with medium powered LED's and accompanied by a low heat signature this luminaire has been created to best provide your seedlings and clones with excellent primary and secondary stalk thickness and vigorous root/foliage development. Thanks to its tailored spectrums for early development you can expect robust, healthy seedlings grown at rapid pace.

The EARTHpods design makes it an incredibly versatile light able to be positioned on virtually any axis of orientation without issue making it excellent for both inter-foliage positioning, top-down applications or any variant in-between. At its core, this is a waterproof, clear polycarbonate tube of LED's and a separate water-proof LED driver combination. We have several popular configurations of the EARTHpod but this series allows us to create a bespoke solution based on your specific cloning requirements. So please get in touch with one of our green minded specialists for a custom-made solution to your needs.





To assist us in creating a tailored solution for your plants we'd like you to consider the following:

- What spectrum do you require?
- What is the size of our area?
- Where & how do you want your light focused?

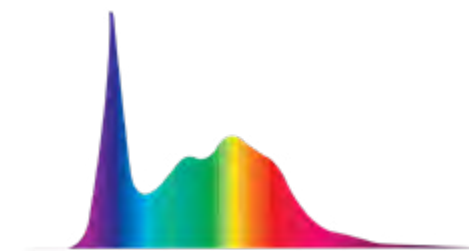
Spectrum

Your stage of plant development will determine the required spectrum, for example; **Veg** (Blue-rich Spectrum promoting root growth & short nodes), **Bloom** (Red-rich Spectrum promoting the growth of flowers and fruits)

How large or small of an area are you looking to cover

Based off your requirements the EARTHpod range can be tailored for length or width with tubes starting as small as 1.2m and going up to 2.8m in a single run before being linked to the next tube in line as needed.

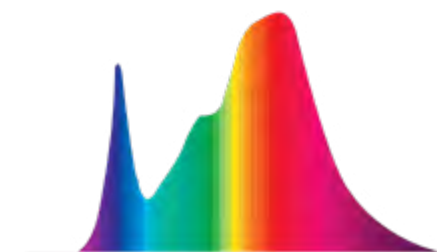
Earth™ Veg 1.5:1 Spectrum



Special Characteristics at Tc= 65C

Blue	Green	Red	Far Red
280 - 499nm	500 - 599nm	600 - 699nm	> 700nm
33.2 %	42.2 %	22.4 %	2 %
Peak @ 451nm		Peak @ 641nm & 662nm	

Earth™ Bloom 0.5:1 Spectrum



Special Characteristics at Tc= 65C

Blue	Green	Red	Far Red
280 - 499nm	500 - 599nm	600 - 699nm	> 700nm
16.8 %	41.4 %	38.1 %	3.5 %
Peak @ 450nm		Peak @ 660nm	Peak @ 740nm

Where and how do you need the light exiting from the POD tube?

With three different options for the distribution of light, the EARTHpod can be tailored for what works best for you. Thinking of an inter-foliage solution, then a Bi-Directional distribution might be best, want to focus your energy on a specific area, perhaps the lens is best. Bottom line, let's ensure that you get what your plans need and aren't boxed in by limitations.



Standard
Up close and personal to your plants - 1 direction



Bi-Direction
Up close and personal to your plants - 2 directions



LENS
Add some localised intensity or distance from the light source

BI-DIRECTION APPLICATION EXAMPLE:

Energywise's first horticultural fitting in 2017 was a POD system. The request was for lighting in a shipping container to grow aeroponic strawberries. It looked like this:

Start with 1 air-conditioned cargo container add a good helping of vertical aeroponic grow containers with EARTHpod tube fittings hung down between plants. Sprinkle with strawberry seedlings and watch an urban container flourish:

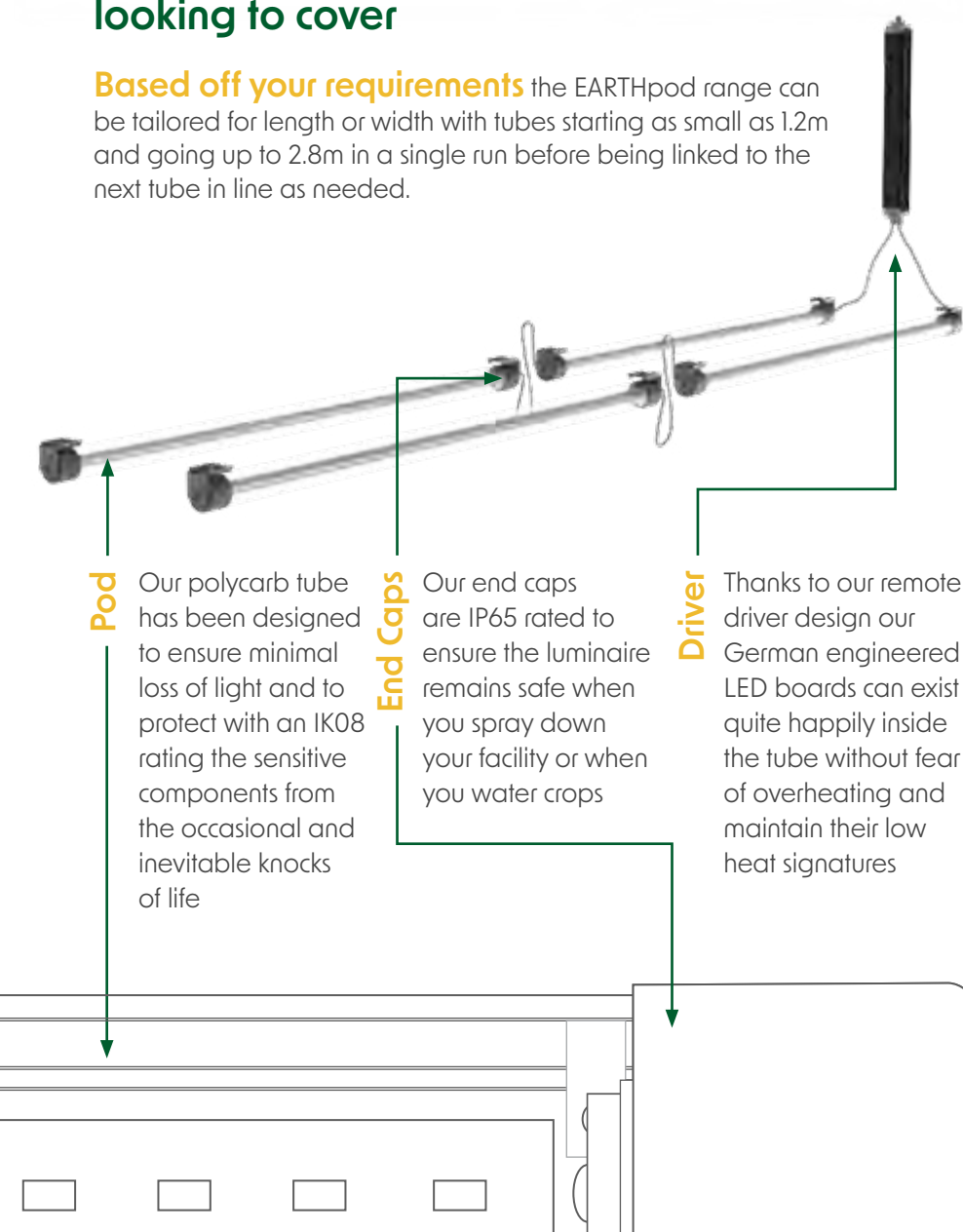
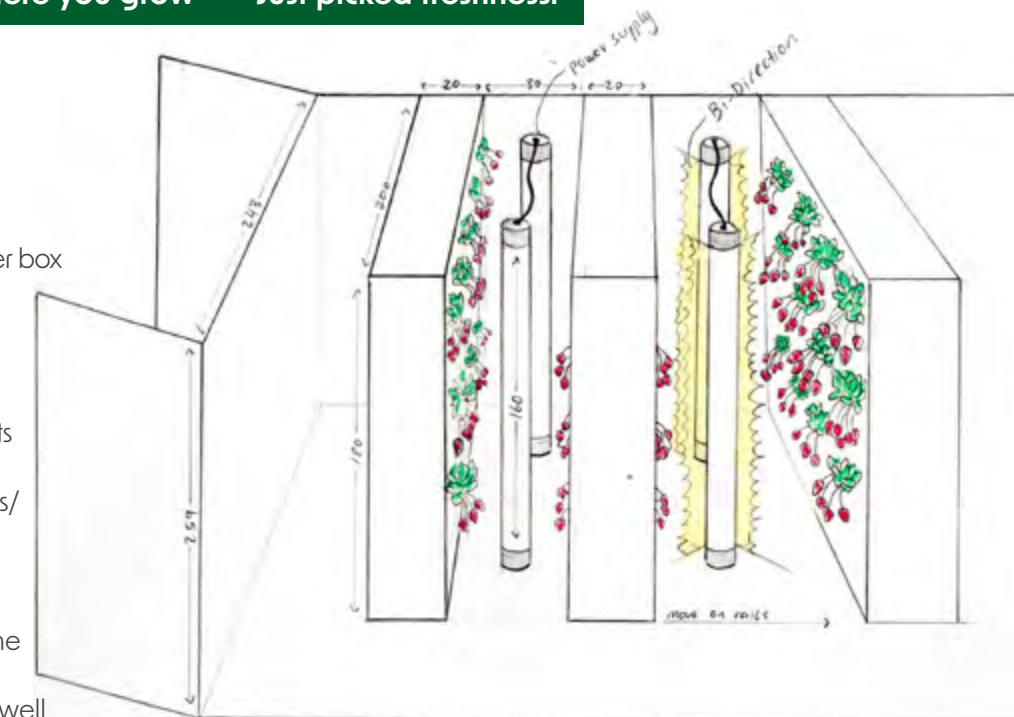
- Closed water cycle
- Sell where you grow
- Just picked freshness.

EARTHpod Configuration:

- Bi-directional EARTHpod lights
- Installed vertically between plants
- 2 x 1.5m Bi-direction tubes/double driver box

These fittings are also being used highly successfully for clone and seedling propagation - no more fluorescent woes - our EARTHpods are IP65 so environments with up to 90% humidity pose no threat, making them ideal for propagation rooms/ chambers and a breeze to clean.

Other standard fittings configurations to date have been primarily Cannabis clone propagation lights to fill 600mm deep shelving. The set-up that is working very well this is 2 x EARTHpod tubes mounted 250mm apart from each other and centralised to the shelf depth.
















Pod Our polycarb tube has been designed to ensure minimal loss of light and to protect with an IK08 rating the sensitive components from the occasional and inevitable knocks of life

End Caps Our end caps are IP65 rated to ensure the luminaire remains safe when you spray down your facility or when you water crops

Driver Thanks to our remote driver design our German engineered LED boards can exist quite happily inside the tube without fear of overheating and maintain their low heat signatures



Specifications

-  5 Year warranty
*Please visit www.energywise.co.za
-  Bluetooth and Wifi enabled with Phone App (on request)
-  Lenses on request: 110°, 90°, 60° & 30°
-  Operating temperature range is -25°C to +35°C
-  Locally designed & produced
-  Fully Serviceable: All units are serviceable and all parts replaceable.
-  Polycarbonate (IK08) lenses
-  Dimmable DALI (1-100%) / Non-Dimmable (on request)
-  Protection – suitable for mains voltage peaks (burst/surge) up to 4 kV
-  Upgradeable to 10kV surge protection (on request)
-  Standard 120° (no lens), Single or Bi-directional (on request)
-  IP 65
-  GMP Certified



The **EARTHpod Series** is designed off the same body as our Explosion Proof Pod used in hostile lighting environments ranging from refineries to mines. This pod has been redesigned for horticultural use, perfecting light distribution and utilizing the latest grow light LED technology to create one of the most rugged luminaries in our entire lighting catalogue and a perfect companion for both the small and commercial scale farmer.



-  Sustainably Recyclable
-  VOLTpro (optional)



EARTH AXIS

Made in the city that brought you
Durban Poison.

Say "HOWZIT" to the EARTHaxis! This specially designed grow tent light is available in 2 sizes, packs up to $1070\mu\text{mol/s}$, has built-in dimming control, carries a 5-year warranty and is PROUDLY made in South Africa.



grow
with us

EARTHTM
HORTICULTURAL LIGHTING SYSTEM

IP65
Easy to clean with
soap and water

5 YEAR
Warranty

4kv
Surge
protection

energywise
Better light
through research.

Earth

IP
65

EARTHTM
HORTICULTURAL LIGHTING SYSTEM

KEY FEATURES

2 Size Options

Axis **PRO** ^{UP}_{TO}: **1070** $\mu\text{mol/s}$ (560W)

Axis **420** ^{UP}_{TO}: **803** $\mu\text{mol/s}$ (420W)



Locally designed & manufactured

You're buying from a local South African brand with exceptional value & quality products which are backed up by solid guarantees & after-sales support with a full 5-year warranty on the fitting.



4 kV surge protection

Increased durability on our South African power grid. Protected against power issues such as load shedding.



Water resistant (IP65)

Can withstand low-pressure jets from all directions, easy to clean with Soap & Water.

Our growers have highlighted 3 key factors in their selection of a grow tent light:

Fast growth High yield Reliability

When you invest in an EARTHaxis grow tent luminaire, not only are you investing in a state of the art grow light, but you're putting your trust in years of research and development, finely tuned spectrums, a scientific and verifiable approach to lighting and some truly rugged hardware.

And we
listened.

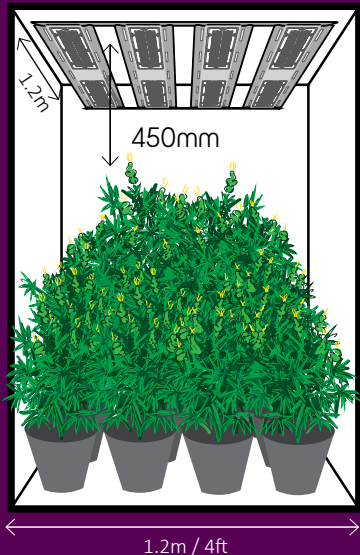
INTRODUCING

Easy to assemble, easier to suspend and a dream to clean, the EARTHaxis was made with the grower in mind. We wanted to design a South African proud fitting, using the very best in globally sourced components and packed with enough science to make Bill Nigh blush. Some have claimed the EARTHaxis is over-engineered. We call that the Energywise standard.

THE EARTH AXIS PRO & 420

If you want a rugged bit of kit that will deliver as promised for as long as promised without skipping a beat... Then you are the kind of person the EARTHaxis was made for.





AXISPRO

EARTH Axis 560W

up to: **1070 $\mu\text{mol/s}$**

- 4 LED plates connected to form a grid.
- 935 x 965 x 50 (mm).**
- Individual LED optics - 90° distribution.
- Super flat profile for maximum clearance.
- Rope & pulley mounting system included.
- Dimmable, 4kV surge built-in protection.

After conducting dozens of trials we've ascertained that a gap of 450mm between the top of the canopy and the bottom of the grow light insures optimal distribution without risk to plant when dialed up to 100% for both our Axis PRO & 420.



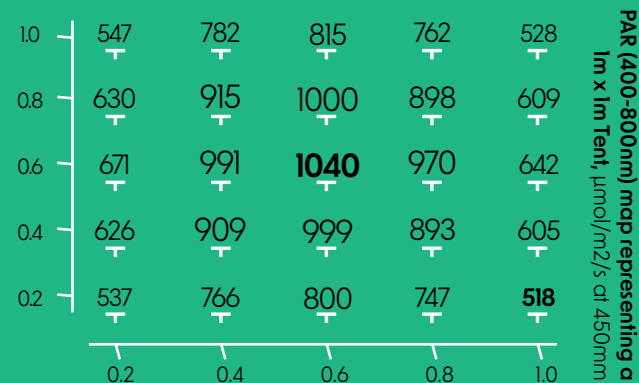
AXIS420

EARTH Axis 420W

up to: **803 $\mu\text{mol/s}$**

- 3 LED plates connected to form a grid.
- 835 x 755 x 50 (mm).**
- Individual LED optics - 90° distribution.
- Super flat profile for maximum clearance.
- Rope & pulley mounting system included.
- Dimmable, 4kV surge built-in protection.

Energywise is South Africa's sole distributor of one of the most advanced light measurement systems in the world the: VISO LabSpion photogoniometer. More importantly, we have our own unit in our lighting laboratory and use it to generate all our photometric data. Such equipment allows us an unparalleled level of refinement in our design and confidence in all in claims. This is how you can be assured that what we claim on the box, is what you find in the box.



Spectrums

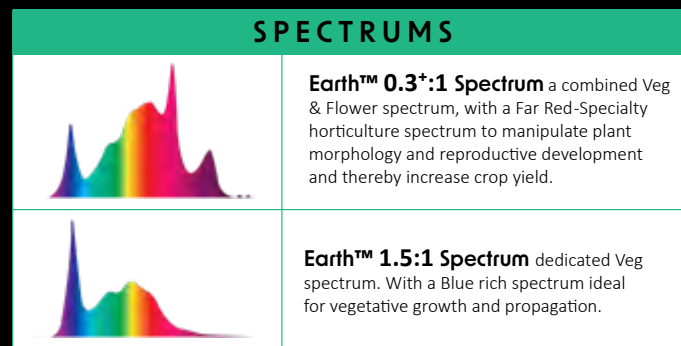
The EARTHaxis is available with a choice of 2 spectrums designed to maximise your growth potential, each favouring a tailored characteristic. Whilst the EARTHaxis comes standard with a Veg & Flowering solution, a purely Veg-specific solution is available on request.

Wattages

The EARTHaxis is available in a 560W or 420W variant to best suit your tent size/pocket and or μmol requirements.

Dimming

All EARTHaxis' have a manual dimming mechanism that can be dialed in as you require, when you require it.



Height adjustable

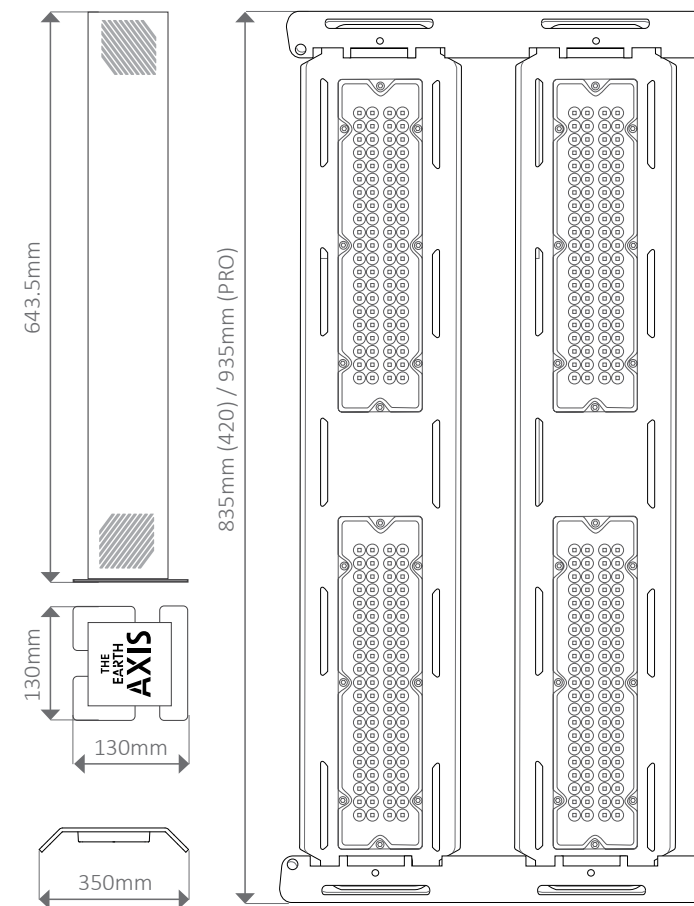
With the included rope and pulley system you can adjust the height of the EARTHaxis to make sure it is always 450mm above your plants, ensuring you get the best results.



SPECIFICATIONS

Lens Attributes	IP65/ IK08 impact rating
Lens Ability	90° optical distribution (std) Allows for full design intensity at 0.45m distance between plants and lights and higher than normal intensities at this distance when compared to no lens
Product Sizes	PRO: fitting 935mm (l) x 965mm (w) x 50mm (h) 420: fitting 835mm (l) x 755mm (w) x 50mm (h)
Suggested mounting height	450mm
Product Ability	Minimum 450mm above the highest crop canopy position - adjustable installation
Thermal Management	Passive cooling
Dimming Control	Rotary dial control
Power Plug	IP65 5-pole connector plug attached to fitting (partner panel mount plug in the box)
Lifetime Rating	L90B10, 45 000 hrs @ 35°C
Power Factor	> 0,95
Electronic Components	Driver- EU Tridonic LED- EU Vossloh Schwabe
Warranty	5 year standard warranty
Company Certifications	ISO 9001 / SABS Bench Mark / MASC Bench Mark / GMP

DIMENSIONS



Protection – suitable for mains voltage peaks (burst/surge) up to 4 kV



IP 65



5 Year warranty

*visit www.energywise.co.za for terms and conditions



Operating temperature range is -25°C to +35°C



Locally designed & manufactured



Serviceable: All units are serviceable and all parts replaceable.



Dimmable switch for on the go changes



Sustainably Recyclable

THE EARTH AXIS





energywise

Better light
through research.