EX Dustproof ZONE 21/22



PREMIUM



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 S/20-2130X











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



Indoor



Diffuser: IK08/5J



5 Year Warranty energywise

Better light through research.



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.





*)

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







*25°C is for Textbooks, Not Africa's Sun: All EW Lights are designed for the 30°C Reality. Minimum.

Specifications

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















kV Protection: Up to 4kV, 10kV on request **5000K standard** 3000K, 4000K, 6500K available CR>80 R9>13 Indoor/Outdoor

Impact Resistance: IK08/5J **Diffuser:** Polycarbonate

Construction: Aluminum & Stainless Steel L90 B10 54 000 hrs

EX Dustproof



Raw Lumen: Effective Lumen:

240V: Power Factor:

Raw Efficacy: Effective Efficacy:

L90 B10 @ 25°: L80 B10 @ 35°:

Fitting Length:

2920 lm 4100 lm 2540 lm 3675 lm 18W 0.95 0.95 161 lm/w 144 lm/w 140 lm/w 129 lm/w >54 000 Hrs >50 000 Hrs

620mm

5840 lm 7528 lm 5052 lm 6276 lm 36W 0.95 0.95 165 lm/w 168 lm/w 143 lm/w 140 lm/w >54 000 Hrs

>50 000 Hrs

1250mm

7300 lm 8200 lm 6230 lm 7010 lm

44W 50W 0.95 0.95

169 lm/w 166 lm/w 142 lm/w

>54 000 Hrs >50 000 Hrs

1540mm

energywise

Resistance KEY:

✓ Resistant

 Reltively Resistant

Non-re

stant		0	Non-resistant	
				•

Installation

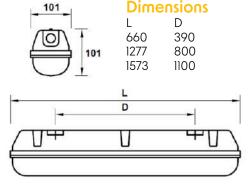
Easy to install, Saving you time & money

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:

While every effort is made to ensure the accuracy of technical details at the time of publication, we reserve the right to modify or upgrade any product or component specifications without prior notice. Our products undergo continuous improvements in technology, energy efficiency, safety, and cost-effectiveness to meet evolving industry standards and supplier updates.

All upgrades are made to enhance product quality, and as such, no claims or complaints will be entertained regarding specification changes.

We are ISO 9001:2015 compliant, and our assembly line adheres to IEC 60958 guidelines. Our products are covered by a Product Liability Policy, and our LED products come with a 5-year warranty (T&Cs apply—please contact Head Office for details).

Chemical agent	Polycarbonate	Aluminium
Acetic acid 10%	✓	✓
Acetone	0	✓
Alcoholic beverages	✓	√
Aluminum sulphate	✓	✓
Ammonia 5%	0	✓
Aniline	0	✓
Arsenic acid 20%	✓	✓
Benzene	0	
Bencylic alcohol	0	•
Benczyl	0	✓
Bromine	0	<u> </u>
Calcium Chloride	✓	<u> </u>
Calcium nitrate	✓	✓
Carbon tetrachloride	0	
Carbonic acid	0	<u> </u>
Caustic potash	0	0
Cement	√	<u> </u>
Chlorhydric acid 1-5%	✓	0
Chlorine liquids (vapours)	0	0
Chloroform	0	<u> </u>
Chromic acid	0	0
Citric acid 20%	√	✓
Copper sulphate	√	0
Diesel-naphta oil	0	✓
Ethyl alcohol	✓ -	✓
Ethyl chloride	0	<u> </u>
Ethyl ether	0	✓
Food oils and fats	0	✓
Formic acid 10%	✓	0
Glycerine	√	<u> </u>
Hexane	✓ -	✓
lodine	0	<u> </u>
Iron chloride	√	<u> </u>
Isopropylic alcohol	· ·	✓
Lubricating oil	√	✓
Magnesium sulphate	√	✓
Methanol	0	✓
Mineral oils	✓	<u>√</u>
Nitric acid 20%	0	0
Oxygen	√	<u> </u>
Ozone	√	
Perchloric acid 10%	<u> </u>	0
Petrol	0	<u> </u>
Phenol	0	
Potassium bromide	√	<u> </u>
Potassium nitrate	V	
Pothassium permanganate	√	√
Sea climate	√	<u> </u>
Silicon oils	√	✓
Soda bleach 15%	0	<u> </u>
Sodium chloride	√	<u> </u>
Sodium hydroxide 5%	0	0
Sodium sulphate	√	✓
Sugar	✓	✓
Sulphur	√	✓
Sulphuric acid 30%	✓	0
Toluene	0	✓
Trichloroethylene	0	

Distribution Options

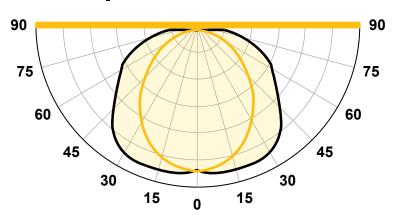
Precision Lighting for Zone 21/22 Environments.

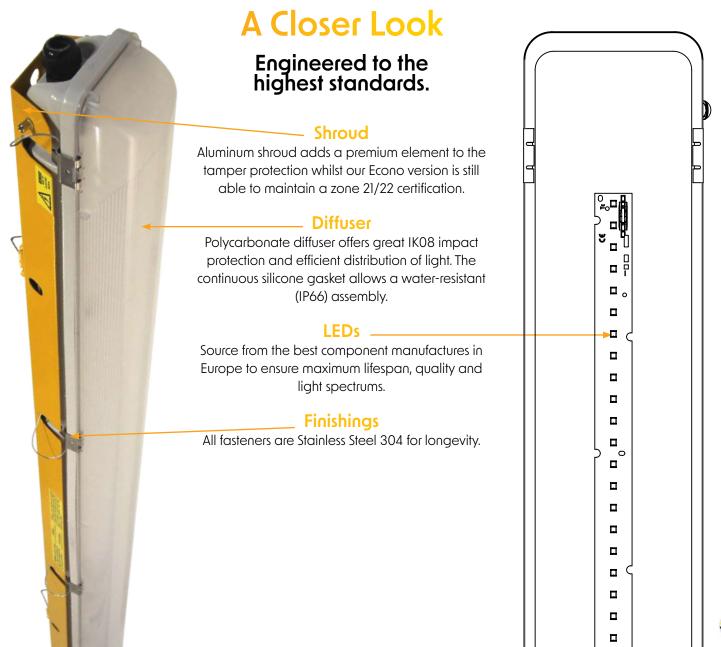
Reliable, Targeted Illumination for Safety & Efficiency Our Zone 21/22 LED

Dustproof luminaires are engineered to deliver precise, controlled lighting in hazardous environments where dust and combustible particles are present. Unlike conventional fixtures that scatter light inefficiently, these luminaires utilize specialized optics to direct illumination exactly where it's needed, enhancing visibility and minimizing glare. With a selection of 30°, 60°, 90°, and 110° beam angles, as well as asymmetrical optics for vertical illumination.

Designed with high-quality European components, our Zone 21/22 LED Dustproof luminaires combine durability, efficiency, and superior light control, ensuring reliable performance in the most demanding hazardous environments.

Dustproof Distribution







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+



LED Life rating: L90 B10, 54 000 hrs



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.



Top Bin Chips <3 MacAdams

Extras

Optional extras.



Casambi bluetooth technology.





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



Voltage surge protection. Up to 10kV.



IES files available.



Motion Sensor



VOLTpro

Effective Lumen Output After Warm-up

We adhere to industry best practices in providing accurate Effective Performance Data (Lumens, Watts, and L&B) that account for driver and LED thermal losses during the warm-up period.

To ensure precise measurements, we conduct Energy and Photometric Testing only after the LED within the fitting has been powered on long enough to reach a stable and constant lumen output—achieving thermal equilibrium at an ambient temperature (Ta) of 35°C.

Unfortunately, some suppliers misrepresent efficacy by inflating lumen values 10–20% above the true effective output. This is often done by using raw LED photometric data, which:

- Excludes driver losses (typically 2–5%)
- Ignores thermal adjustment losses, which can take 20–240 minutes and account for 7–15% reduction in output

Given these factors, the actual Effective Lumen Output is often lower than raw values suggest. In extreme cases, some suppliers report only raw LED values, completely disregarding real-world performance.

For transparency and accuracy, we ensure our data reflects true effective lumens, providing reliable performance metrics you can trust.



Designed and Manufactured by



Better Light Through Research

sales@energywise.co.za | www.energywise.co.za T: +27 31 764 2345 / +27 87 941 0012 Physical address: Unit 5 Edstan Business Park, 2 Ibhubesi Road, Riverhorse Valley, Durban, South Africa, 4017 Postal address: PO Box 1166, Kloof, South Africa, 3640









Energywise lighting options

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



Factories, Warehouses, Cold rooms etc.

Standard

6-25m Height: 40/65°C **Bay XL**

Factories, Warehouses, Supply rooms etc.

Standard

3-20m Height: 40 30°C

Bay XE

Factories, Warehouses, Supply rooms etc.

Standard

Height: 6-25m 20 30°C

DUSTPROOF

Warehouses, Car parks, Corridors.

Standard

2.5-8m Height: 66 35°C

VANDAL-RESISTANT

DUSTPROOF Car parks, Corridors, Mills.

Standard

Height: 2.5-8m 66 35°C Temp:

PUREBox Panel

Medical & laboratory,

Clean rooms etc.

Standard Height:

54 35°C

Torch Bulkhead Heavy industrial areas.

Standard

Height: 65 30°C



Tamperproof and nearly unbreakable.

Standard

Height: 2-5m

65 Temp: 35°C **Bay XF** Get the job done, Glare-Free.

Standard Height:

2-10m 20 Temp: 30°C

Plate XP

Swiss army knife of lighting.

Height: 65

6-25m Temp: 35°C

TOBLO bay Factories, Warehouses,

Supply rooms etc.

Standard

Height: 6-25m 40 40/30°C Temp

Distribution centers, Warehouses etc.

Standard Height:

3-20m 40 35°C Temp

Retrofit 44 Converting old HID tech to LED

Standard

00

Retrofit 22 Converting old HID bulkhead to LED

PHILIPPIN

Standard

00 35°C



Shops, Production facilities, parking

Standard

2.5-10m Height: 40 30°C Temp:

LEDrail 2000 Shops, Sheds,

Underground parking

Standard

2.5-10m Height: 40 30°C Temp:

LEDrail 4000

Retail, board rooms, department stores.

Standard

2.5-6m Height: 40 35°C

LEDrail 8000

Retail, board rooms, department stores.

Standard

Height: 2.5-6m 40 35°C Temp:

LEDrail 4-100

All retail outlets, showrooms, offices etc

Standard

2.5-10m Height: 40 35°C Temp:

LEDrail 4LCO

Height:

Temp:

IP-

Linear 4-300 Glare free Shops, Production facilities, showrooms etc precison lighting

2.5-10m

40

35°C

Height: 2.5-10m IP-40 Temp 35°C





Offices, retail and hospitality settings.

Standard

Temp 30°C Panel 595x595

Offices, healthcare, educational facilities.

Standard

40 30°C Panel 1195x595

Offices, commercial, educational settinas.

Standard

Temp: 30°C

Factories, Warehouses, Mills, Marine etc.

6-25m Height: 65 40°C Temp:

EX DUSTPROOF

PREMIUM Warehouses. Car parks, Mills.

Standard

2.5-8m Height: Temp:

EX DUSTPROOF

Warehouses, Car parks, Corridors, Mills.

Standard

2.5-8m Height: 65 35°C Temp:

EX Pod Factories, Mines, Marine etc.

Standard

2-5m Height:

40°C

Temp:



Heavy industrial

65 40°C

Standard

IΡ·

Temp:

EARTHbay Horticulture, Open

areas etc Standard

From canopy: 0.5-2m 65 35°C

EARTHplate Horticulture, Rack/ Under shelf etc

Standard

From canopy: 0.4-2m 65 Temp:

EARTHpod Horticulture,

Standard

Propagation, Racks etc.

From canopy: 0.2-lm Temp:

Lights on. Job done.



Better light through research.