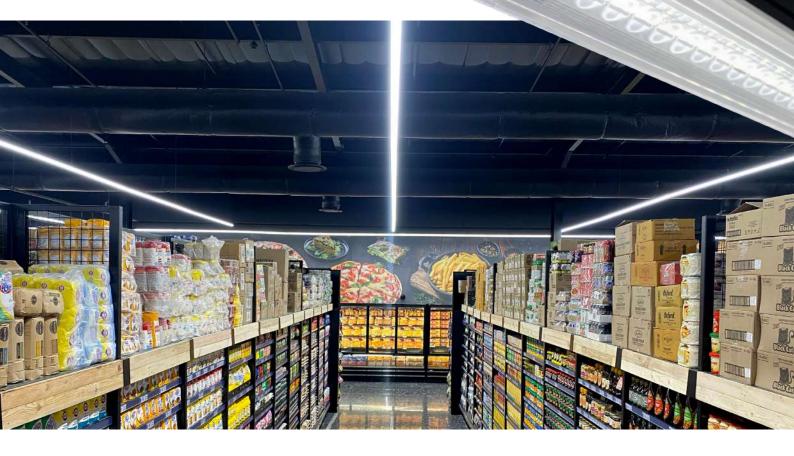
LEDrail 4100

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







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



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



Indoor



SABS Approved



5 Year WarrantyExtendable to 7 year. T&Cs apply.

energywise

Better light through research.

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

A commercial flagship built to outperform in style.

The LEDrail 4100 combines a sleek modular design with powerful lumen output and precision optics, delivering both speed of installation and rugged durability.

Built with premium Italian and German components, it features standard 1/2Kv surge protection (upgradeable to 4Kv) with the option of a 10Kv replaceable protector for up to 25m of coverage.

More than just a light fitting, the 4100 is a high-grade luminaire engineered without compromise—an elegant yet robust solution for demanding commercial and retail environments.

KEY FEATURES

OPTICS

Over-engineered and overachieving by design

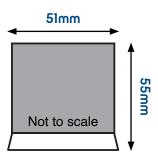
• 8 different acrylic optics for multiple lens combinations.

5 SIZE OPTIONS

- LEDrail 4100 102
- LEDrail 4100 104
- LEDrail 4100 106
- LEDrail 4100 108
- LEDrail 4100 110

MOUNTING OPTIONS

- P2000 Compatible
- Pendant
- Floating
- Recessed



i here

*)

Optional: Bluetooth, Wifi, Dali & Bi Level.

Casambi App featured above

Google Play

Size can vary by +-1mm Sizes are not including any caps or joints. Due to constant R&D, sizes can change without notice.



OTHER CONFIGURATIONS

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



Acrylic Diffuser



P2000 Compatible



Modular: Expandable system



Optional: Bluetooth, Wifi, Dali & Bi Level

LEDrail 4100 Wallwasher

Wall and All

Our new Wall Washer Light retains all the technical excellence of our class-leading 4100 while adding a discreet side light for illuminating signage, ceilings, bulkheads, or features. This seamless integration enhances retail spaces with layered lighting, creating a more engaging shopping experience and elevating the overall aesthetic.





kV Protection: lkV-2kV. 4kV or l0kV 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 @ 40°C/ 4kV Drivers, 100K Hrs @ 40°C)

Name	Length	Effective Efficacy	40°C	40°C	40°C	40°C
102	571mm	160-134 lm/w	1886 lm/ 12w	2557 lm/ 17w	3001 lm/ 21w	3957 lm /30w
104	1131mm	162-148 lm/w	3814 lm/ 24w	5168 lm/ 34w	6138 lm/ 41w	7242 lm/ 49w
106	1691mm	162-148 lm/w	5721 lm/ 35w	7752 lm/ 51w	9207 lm/ 62w	10,863 lm/ 74w
108	2251mm	162-148 lm/w	7628 lm/ 47w	10,336 lm/ 67w	12,276 lm/ 82w	14,484 lm/ 98w
110	2811mm	162-148 lm/w	9535 lm/ 59w	12,920 lm/ 84w	15,345 lm/ 103w	18,105 lm/ 123w
			L90 B10 70 000 Hrs		L80 B10 70 000 Hrs	

LEDrail 4100 IP65 options (IkV Drivers, 70K hrs @ 40°C/4kV Drivers, 100K Hrs @ 40°)

Name	Length	Effective Efficacy	40°C	40°C	40°C
102	571mm	160-147 lm/w	1886 lm/ 12w	2557 lm/ 17w	3001 lm/ 21w
104	1131mm	160-147 lm/w	3772 lm/ 24w	5114 lm/ 34w	6002 lm/ 41w
106	1691mm	160-147 lm/w	5658 lm/ 35w	7671 lm/ 51w	9003 lm/ 62w
108	2251mm	160-147 lm/w	7544 lm/ 47w	10,228 lm/ 67w	12,004 lm/ 82w
110	2811mm	160-147 lm/w	9430 lm/ 59w	12,785 lm/ 84w	15,005 lm/ 103w
			L90 B10 5	L80 B10 50 000 Hrs	

LEDrail 4100 Wallwasher options (4kV Drivers, 100K hrs @ 40°C)

Name	Length	Effective Efficacy	40°C	40°C	40°C	40°C
104	1131mm	162-148 lm/w	7628 lm/ 24w	10,336 lm/ 34w	12,276 lm/ 41w	14,484 lm/ 49w
106	1691mm	162-148 lm/w	11,442 lm/ 35w	15,504 lm/ 51w	18,414 lm/ 62w	21,726/ 74w
108	2251mm	162-148 lm/w	15,256 lm/ 47w	20,672 lm/ 67w	24,552 lm/ 82w	28,968 lm/ 98w
110	2811mm	162-148 lm/w	19,070 lm/ 59w	25,840 lm/ 84w	30,690 lm/ 103w	36,210 lm/ 123w
			L90 B10 70 000 Hrs		L80 B10 70 000 Hrs	

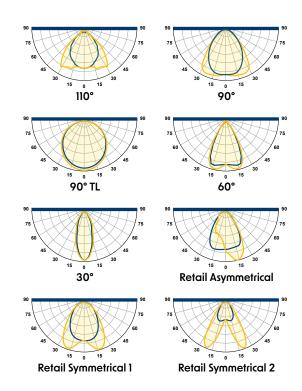
Distribution Options

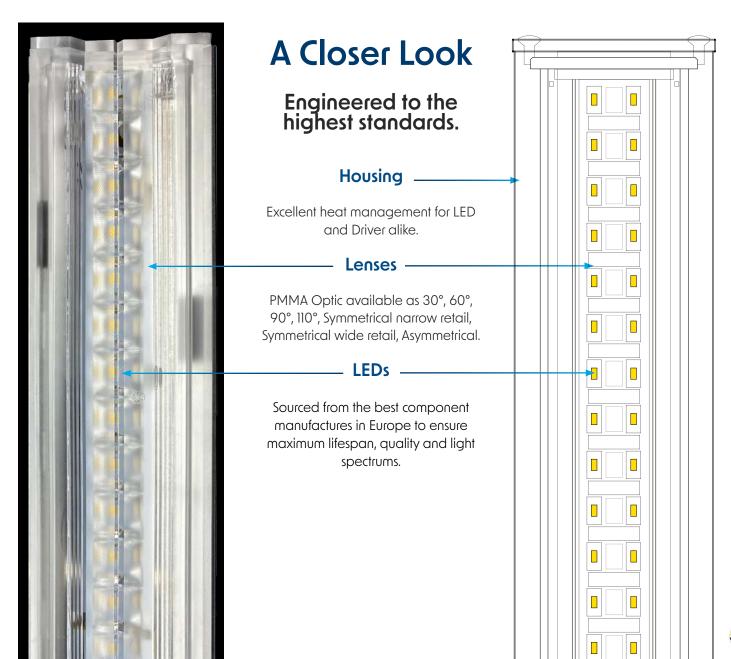
The light you need, where you want it.

Retail lighting isn't just about brightness,

it's about precision. Our advanced optical lenses ensure that light is directed exactly where it's needed, enhancing product visibility while reducing unnecessary glare. With lens options of 30°, 60°, 90°, and 110°, as well as specialized symmetrical and asymmetrical retail lenses, we can sculpt the perfect lighting environment.

For shelving and displays, our vertical-throw asymmetrical lenses highlight products at eye level rather than wasting light on floors or ceilings. Whether you need focused beams to accentuate premium items, wide, even coverage for open spaces, or deep penetration through shelving, our lens technology ensures that customers see your products in the best possible light—literally. Because in retail, it's the goods that should shine, not the shoppers' shoes.



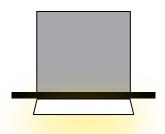


Installation

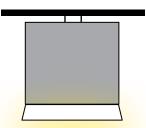
Easy to install, Saving you time & money

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

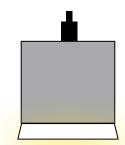
IP40



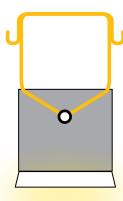
Recessed
Quick spring loaded
attachment for a snug and
secure fit.



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

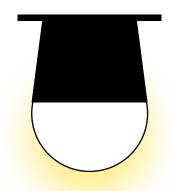


Suspended Mount
For hanging the fitting at your desired height.

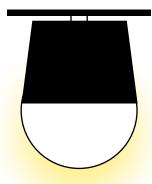


P2000 Claw Mount For quick and simple attachment to P2000 trunking.

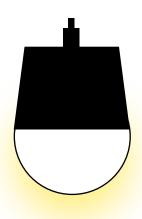
IP65



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.

Disclaimer:

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

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

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

Effective Lumen Output After Warm-up

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

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

Features

Standard across the LEDrail 4100 range.



SABS Approved



Indoor.



1/2kV surge protection.



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 MacAdams



Modular.



Earth connection and CLASS I insulation fixture.



P2000 Trunking compatible



Ceiling / floating mount



Suspended by chain or steel cable. (not included)



L&B Life Rating: L80/90 B10 70 000 hrs

Extras

Optional Extras.



Casambi bluetooth technology.





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



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

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

Get the job done, Glare-Free.

Standard

Height: 2-10m 20 Temp: 30°C

Plate XP

Swiss army knife of lighting.

Height: 6-25m 65 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

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

Height: 2.5-10m IP-40 Temp: 35°C

Height: 2.5-10m IP-40

35°C

Temp



Downlighter 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

Lights on. Job done.

2.5-8m Height: 65 35°C Temp:

EX Pod

Factories, Mines, Marine etc.

Standard

2-5m Height: Temp: 40°C



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,

Propagation, Racks etc.

Standard

From canopy: 0.2-lm Temp:



