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*

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

**Lights on.
Job done.**

4kv

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

IP 40

Indoor

SABS APPROVED

SABS
Approved

energywise

**Better light
through research.**

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 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
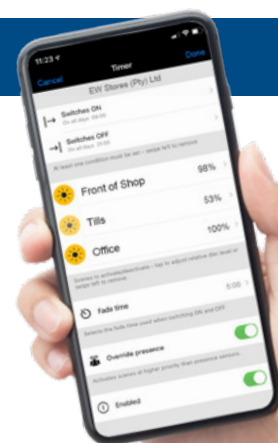• With extra Lumen Packages up to 21 000 lm.

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.

GET IT ON Google Play

Download on the App Store

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 IP40

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	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.

110°

90°

90° TL

60°

30°

Retail Asymmetrical

Retail Symmetrical 1

Retail Symmetrical 2
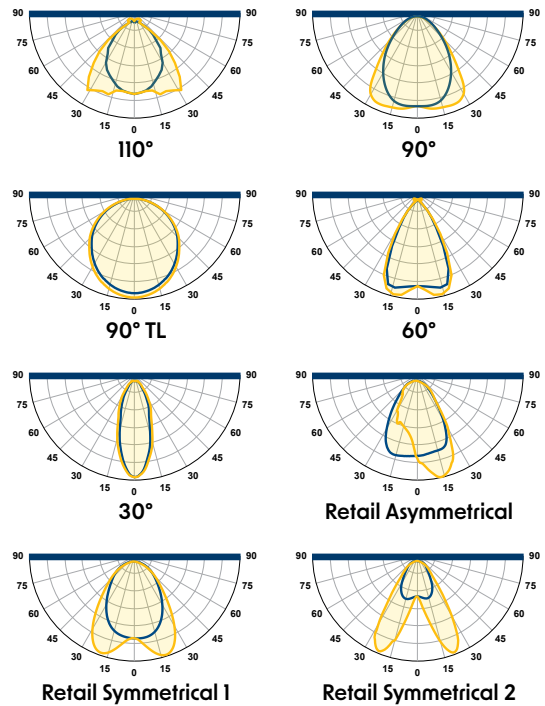
A Closer Look

Engineered to the highest standards.
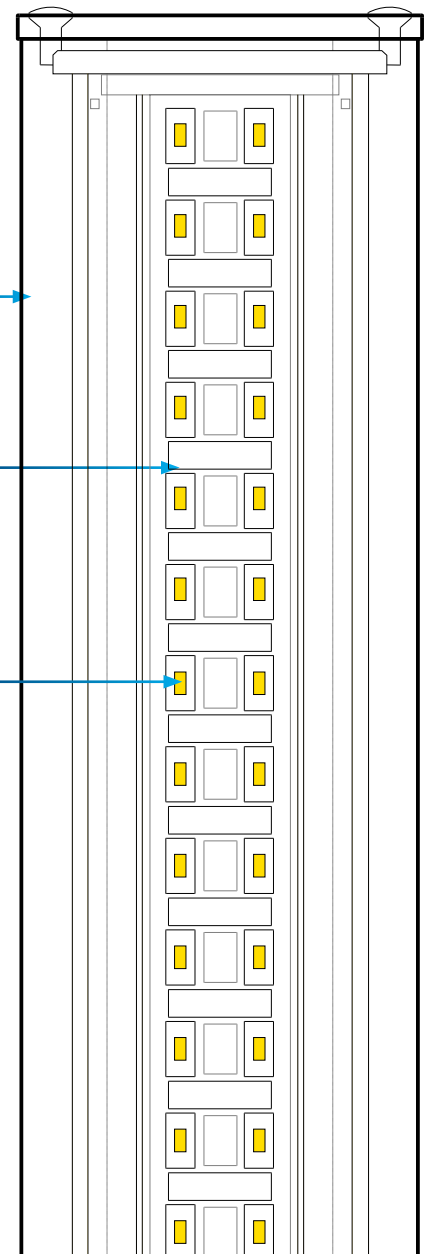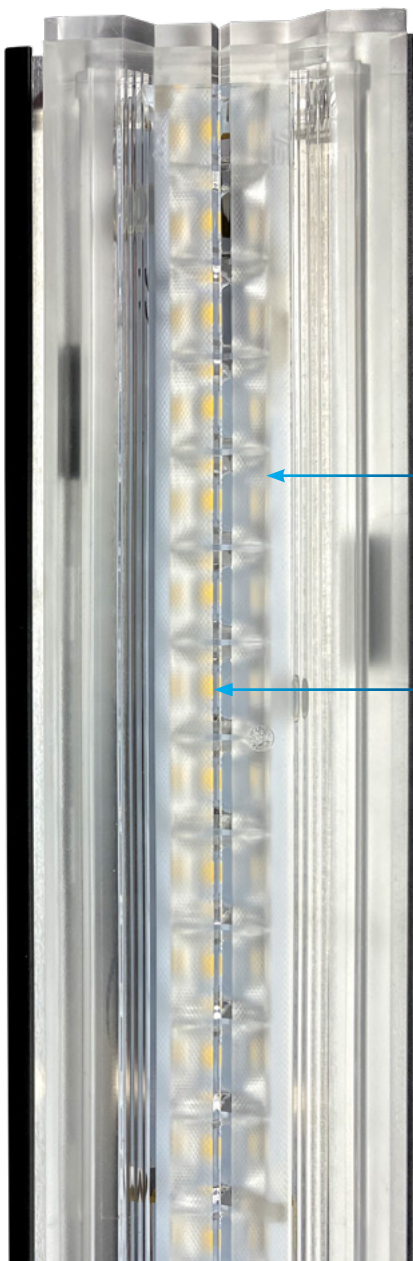

Housing

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.
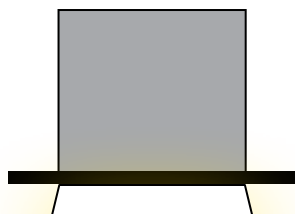
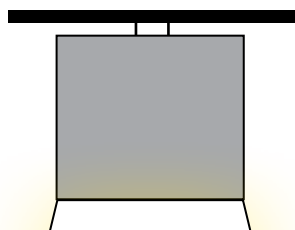# Installation
Easy to install, Saving you time & money

The LEDrail 4100 family are simple to install with a few different mounting options. Please specify your preference when ordering your LEDrail 4100
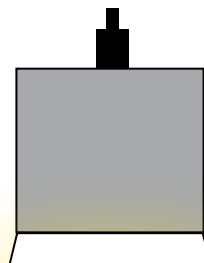
IP40

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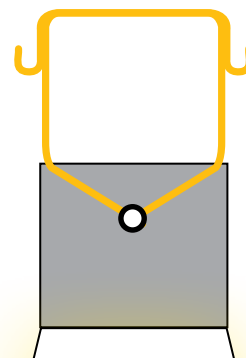Quick spring loaded attachment for a snug and secure fit.

Floating Mount
A mount for areas where a ceiling mount isn't possible.
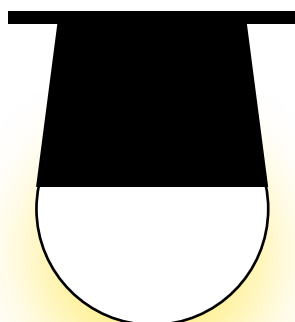
Suspended Mount
For hanging the fitting at your desired height.

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
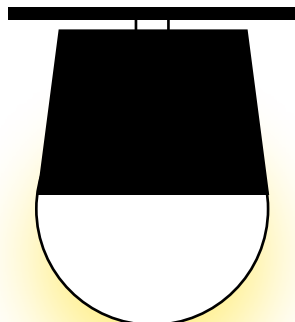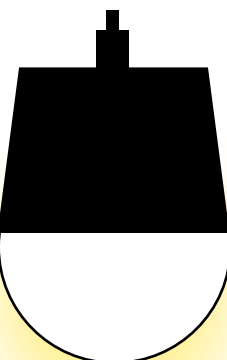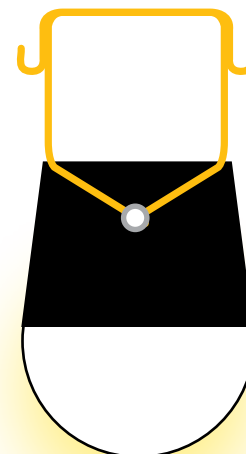For hanging the fitting at your desired height.

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

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 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.

IP 40 — Indoor.

kV — 1/2kV surge protection.

Recyclable.

PMMA — Acrylic Lens.

Serviceable: All units are serviceable and all parts replaceable.

KELVIN — Colour temperature 3000, 4000, 5600 & 6500K

CRI — 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)

Extras

Optional Extras.

Casambi bluetooth technology.
Bluetooth

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

LUMEN / WATT — Excellent Luminous Efficacy (Lm/W)

4kv — Driver upgrade to 4kV

10kv — 10kV replaceable surge protection.

.IES — IES files available.

IP 65 — LEDrail 4100 IP65

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

Designed and Manufactured by **energywise**®

Better Light Through Research.

SABS APPROVED | ISO 9001 CERTIFIED | GMP

Energywise lighting options

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

INDUSTRIAL

Lights on

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 Flood
Factories, Warehouses, Mills, Marine etc.

Standard	
Height:	3-10m
IP:	65
Temp:	40°C

EX DUSTPROOF PREMIUM
Warehouses, Car parks, Mills.

Standard	
Height:	2.5-8m
IP:	65
Temp:	40°C

EX DUSTPROOF
Warehouses, Car parks, Corridors, Mills.

Standard	
Height:	2.5 -8m
IP:	65
Temp:	40°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.