RETROFIT LED TRAY - RT5220

RT5220

Project Name -

Reference Number -

Product Data Sheet

Application
For linear retrofit applications: office, retail, healthcare, leisure & hospitality.

Description
Extruded aluminium gear tray fitted with a high quality LED system, thermal management, colour temperature options, plug-and-play connections, replacement optics available.

Dimensions
52 x 20 mm
Standard lengths from 560 - 2800 mm

Driver/Control
Dali, fixed output, 1-10V, switchdim
(casambi or hytronik enabled)

Sensors
PIR and daylight sensor integration

Colour Temperature Options
2700K, 3000K, 4000K, 5000K, 6500K or tunable white

Fixing
Installed into existing linear profiles using our magnet bracket attachments or custom made spring mount.

Luminaire Efficiency
Up to 182 Lm/W
(based on 4000K)

CRI
80 or 90

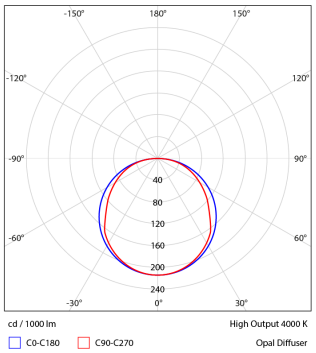
Clip-in Optics
Opal, satin frost, clear, micro-prism, micro-prism with anti pixel (UGR <19)

LED life
Up to 50,000 hours
(operating temperature -40°C ~ +80°C)

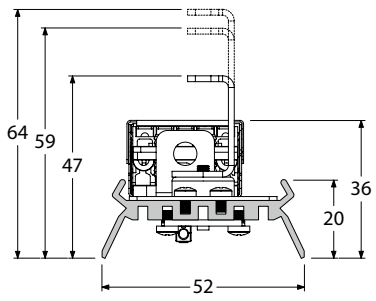
UKCA/CE - Conformity

IP Rating - IP20

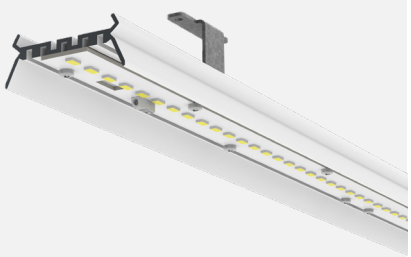
Light Distribution



Dimensions



Project Specifics



Date.

Approved by.
Print Name

Signed

RETROFIT LED TRAY BENEFITS

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BENEFITS

Project Name -

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Making the switch to LED has a multitude of benefits, but these are our top four reasons for retrofitting to LEDs.

LOWER UPFRONT COSTS

One of the main reasons many businesses put off switching to LED technology is because of the associated costs. When LED lighting was in its infancy the initial costs were very high, however this is no longer the case, especially if you choose retrofits. There will still be an initial investment, but much less so than for all new LED fittings - especially when you consider the cost of installation, which would take much longer for a full fitting replacement.

Retrofits are designed as direct replacements of conventional lighting technologies. Our retrofit tray systems fit perfectly into existing fittings and offer all the benefits of LED technology for a fraction of the cost.

REDUCED MAINTENANCE COSTS

One of the biggest downsides of high intensity discharge lamps is their high maintenance costs. The lamps have very short life expectancies and a very high rate of lumen depreciation so they usually have to be replaced before they even reach the end of their lives. Changing these lamps is a time-consuming process and electricians will typically change them all together to reduce the expense.

LEDs on the other hand have very low maintenance costs as they have the longest lifespans of all lighting technologies. Their shortest lifespan is 50,000 hours, which means you can use them for years without having to replace them. They also retain 70% of their brightness for their entire lives and don't have to be replaced before their lifetimes come to an end.

A GREAT WAY TO FUTURE-PROOF BUILDINGS

Change is inevitable and the lighting systems that were used even 10 years ago are no longer popular today. As environmental pollution continues to have a negative impact on our planet, governments are passing new laws that require buildings to become energy-efficient.

Light Emitting Diodes (LEDs) are the future of lighting. LED lights use approximately 1/8 the power of incandescent lights because much of the energy from incandescent lighting is being wasted as heat - in contrast LED lighting should always be cool to the touch. Because of this, LED lights can further reduce energy usage in locations such as offices where air conditioning is in use, whether that be during the warmer months or all year round.

LESS WASTE

LED lights are designed to last. When you upgrade your lighting to LED, you may end up purchasing fewer lights as new generation LEDs have a high luminous efficacy – meaning they produce more lumens for each watt of electricity they consume. Since LEDs have a long lifespan, you won't have to replace them for years, which means fewer materials will end up in landfills. LED retrofits use fewer materials than a completely new fittings, lowering the total cost and the quantity of materials that need to be recycled or thrown away.

Fluorescent lamps and some HIDs contain mercury which can be harmful to the environment if it is not disposed of properly. Switching to mercury-free LEDs and using fewer light bulbs means reducing waste and conserving resources.

RETROFIT LED TRAY FEATURES

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FEATURES

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Our range of high quality LED components and controls are selected to focus on practical applications and lighting considerations.

HIGH QUALITY COMPONENTS

Our retrofit LED solution consists of an extruded aluminium heatsink with high quality Zhaga footprint LED boards fixed to the facing side with the wiring and LED driver fixed to the back. Our LED boards offer efficiencies of up to 182 lumens per circuit watt.

Lengths available: 560 mm, 840 mm, 1120 mm, 1400 mm, 1680 mm, 1960 mm, 2240 mm, 2520 mm, 2800 mm.

CONTROL OPTIONS

Don't let limited wiring options hold you back. As standard we offer three types of driver: fixed output/ switched, DALI dimmable, and 1-10V dimmable.

Functionality can be further improved with sensor ready drivers which can be connected to multi-function daylight/ proximity sensors or a Casambi controller for wireless control utilising an application on your smartphone or tablet.

THE POWER OF MAGNETS

Our retrofit trays utilise a strong neodymium magnet attachment system for easy installation and maintenance. Simply fix the magnet brackets to the back of your light fitting and pop the retrofit tray inside. Our magnet system has a ±20mm degree of movement so you do not need to be exact during installation and can nudge the tray along for better positioning if needed.

In the event that internal brackets are not suitable for your luminaires we can work with you to create custom fabricated mounting springs that are fixed to the back of the retrofit LED tray.

NEW OPTICS

Over time you may find that the diffusers fitted to your luminaires have become brittle and discoloured. This is caused by the diffuser material absorbing ultraviolet light and not only looks bad but can ruin the expected gains from retrofitting. We offer an assortment of replacement diffuser options in several sizes suited to our extrusions but can also create custom diffusers using our CNC router and CO2 laser.

Options include: Opal, satin frosted, micro-prism, micro-prism with anti-pixel (UGR < 19) and clear.